

Chemical Analysis Report

CEN-DIST-2023-10-11-04

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

Event Description: **Run 20**
Request ID: **RQ-2023-10-09-25**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
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Certified by: Colin Wright, Program Administrator

Date Certified: 07-NOV-2023 09:47



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 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: Smith Canal 40M S of Johns PKWY

Collection Date/Time: 10/10/2023 09:39

Field ID: G2CE0241

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2444339	EPA 8321B	2,4-D	0.013		ug/L	P436414	
		Acesulfame K	0.18	I	ug/L	P436330	
		2,4,5-T	0.0040	U	ug/L	P436414	
		AMPA	0.31	I	ug/L	P436330	
		Acetaminophen	0.0080	U	ug/L	P436414	
		Acetamiprid	0.0020	U	ug/L	P436414	
		Endothall	0.25	U	ug/L	P436330	
		Glufosinate	0.10	U	ug/L	P436330	
		Glyphosate	0.10	U	ug/L	P436330	
		Afidopyropen	0.0020	U	ug/L	P436414	
		Bentazon	0.33		ug/L	P436414	
		Sucralose	1.7		ug/L	P436330	
		Benzovindiflupyr	0.0020	U	ug/L	P436414	
		Carbamazepine	8.0E-04	U	ug/L	P436414	
		Clothianidin	0.010		ug/L	P436414	
		Dinotefuran	0.0020	U	ug/L	P436414	
		Diuron	0.0020	U	ug/L	P436414	
		Fenuron	0.032	U	ug/L	P436414	MS
		Fluridone	0.0035		ug/L	P436414	
		Imazapyr	0.050		ug/L	P436414	
		Hydrocodone	0.0020	U	ug/L	P436414	
		Ibuprofen	0.080	U	ug/L	P436414	
		Imidacloprid	0.013		ug/L	P436414	
		Linuron	0.0040	U	ug/L	P436414	
		Mandestrobin	0.0020	U	ug/L	P436414	
		MCPP	0.0057	I	ug/L	P436414	
		Naproxen	0.0080	U	ug/L	P436414	MS
		Primidone	0.0040	U	ug/L	P436414	
		Pyraclostrobin	0.0020	U	ug/L	P436414	
		Silvex	0.0040	U	ug/L	P436414	
		Thiamethoxam	0.0020	U	ug/L	P436414	
		Tolfenpyrad	0.0020	U	ug/L	P436414	
		Triclopyr	0.0040	U	ug/L	P436414	
2444352	EPA 200.7 Rev. 4.4	Calcium	31.0		mg/L	P436406	
		Iron	990		ug/L	P436406	
		Magnesium	3.73		mg/L	P436406	
		Potassium	2.3		mg/L	P436406	
		Sodium	20.5		mg/L	P436406	
		Strontium	129		ug/L	P436406	
		Tin	6.8	I	ug/L	P436406	
		Titanium	1.4	I	ug/L	P436406	
		Vanadium	2.0	U	ug/L	P436406	
		Zinc	5.0	U	ug/L	P436406	
	EPA 200.8 Rev. 5.4	Aluminum	136		ug/L	P436406	

Field ID: G2CE0241

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2444352	EPA 200.8 Rev. 5.4	Antimony	0.10	I	ug/L	P436406	
		Arsenic	0.80		ug/L	P436406	
		Barium	17.6		ug/L	P436406	
		Beryllium	0.015	I	ug/L	P436406	
		Boron	48.4		ug/L	P436406	
		Cadmium	0.020	U	ug/L	P436406	
		Chromium	0.74	I	ug/L	P436406	
		Cobalt	0.159		ug/L	P436406	
		Copper	0.90		ug/L	P436406	
		Lead	0.20	U	ug/L	P436406	
		Manganese	22.9		ug/L	P436406	
		Molybdenum	0.48	I	ug/L	P436406	
		Nickel	0.53	I	ug/L	P436406	
		Selenium	0.20	U	ug/L	P436406	
		Silver	0.026	I	ug/L	P436406	
		Thallium	0.10	U	ug/L	P436406	
	SM 2340 B-2011	Hardness	92.7		mg/L	P436406	

Sample Location: Mills Creek at Park

Collection Date/Time: 10/10/2023 10:05

Field ID: G2CE0233

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2444340	EPA 8321B	2,4-D	0.049		ug/L	P436414	
		Acesulfame K	0.28	I	ug/L	P436330	
		2,4,5-T	0.0040	U	ug/L	P436414	
		AMPA	0.35	I	ug/L	P436330	
		Acetaminophen	0.036		ug/L	P436414	
		Acetamiprid	0.027		ug/L	P436414	
		Endothall	0.25	U	ug/L	P436330	
		Glufosinate	0.10	U	ug/L	P436330	
		Glyphosate	0.10	U	ug/L	P436330	
		Afidopyropen	0.0020	U	ug/L	P436414	
		Bentazon	0.20		ug/L	P436414	
		Sucralose	30		ug/L	P436330	
		Benzovindiflupyr	0.0020	U	ug/L	P436414	
		Carbamazepine	0.015		ug/L	P436414	
		Clothianidin	0.017		ug/L	P436414	
		Dinotefuran	0.020		ug/L	P436414	
		Diuron	0.0053	I	ug/L	P436414	
		Fenuron	0.032	U	ug/L	P436414	MS
		Fluridone	0.0096		ug/L	P436414	
		Imazapyr	0.32		ug/L	P436414	
		Hydrocodone	0.0020	U	ug/L	P436414	
		Ibuprofen	0.080	U	ug/L	P436414	
		Imidacloprid	0.011		ug/L	P436414	
		Linuron	0.0040	U	ug/L	P436414	
		Mandestrobin	0.0020	U	ug/L	P436414	
		MCPP	0.0037	I	ug/L	P436414	
		Naproxen	0.035		ug/L	P436414	MS
		Primidone	0.030		ug/L	P436414	
		Pyraclostrobin	0.0020	U	ug/L	P436414	
		Silvex	0.0040	U	ug/L	P436414	
		Thiamethoxam	0.0020	U	ug/L	P436414	
		Tolfenpyrad	0.0020	U	ug/L	P436414	
		Triclopyr	0.0040	U	ug/L	P436414	
2444353	EPA 200.7 Rev. 4.4	Calcium	51.7		mg/L	P436406	
		Iron	410		ug/L	P436406	
		Magnesium	6.90		mg/L	P436406	
		Potassium	7.1		mg/L	P436406	
		Sodium	52.9		mg/L	P436406	
		Strontium	248		ug/L	P436406	
		Tin	5.7	I	ug/L	P436406	
		Titanium	0.83	I	ug/L	P436406	
		Vanadium	2.1	I	ug/L	P436406	
		Zinc	5.0	U	ug/L	P436406	
	EPA 200.8 Rev. 5.4	Aluminum	56		ug/L	P436406	

Field ID: G2CE0233

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2444353	EPA 200.8 Rev. 5.4	Antimony	0.26		ug/L	P436406	
		Arsenic	1.17		ug/L	P436406	
		Barium	19.6		ug/L	P436406	
		Beryllium	0.010	U	ug/L	P436406	
		Boron	149		ug/L	P436406	
		Cadmium	0.020	U	ug/L	P436406	
		Chromium	0.46	I	ug/L	P436406	
		Cobalt	0.091		ug/L	P436406	
		Copper	0.50	I	ug/L	P436406	
		Lead	0.20	U	ug/L	P436406	
		Manganese	26.2		ug/L	P436406	
		Molybdenum	3.18		ug/L	P436406	
		Nickel	0.87	I	ug/L	P436406	
		Selenium	0.20	U	ug/L	P436406	
		Silver	0.010	U	ug/L	P436406	
		Thallium	0.10	U	ug/L	P436406	
	SM 2340 B-2011	Hardness	158		mg/L	P436406	

Sample Location: Chub Creek at Cameron Ave

Collection Date/Time: 10/10/2023 10:33

Field ID: G2CE0270

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2444355	EPA 200.7 Rev. 4.4	Calcium	107		mg/L	P436406	
		Iron	170		ug/L	P436406	
		Magnesium	19.8		mg/L	P436406	
		Potassium	7.1		mg/L	P436406	
		Sodium	164		mg/L	P436406	
		Strontium	700		ug/L	P436406	
		Tin	4.1	I	ug/L	P436406	
		Titanium	1.0	I	ug/L	P436406	
		Vanadium	2.0	U	ug/L	P436406	
		Zinc	5.0	U	ug/L	P436406	
	EPA 200.8 Rev. 5.4	Aluminum	25		ug/L	P436406	
		Antimony	0.19	I	ug/L	P436406	
		Arsenic	4.06		ug/L	P436406	
		Barium	54.1		ug/L	P436406	
		Beryllium	0.010	U	ug/L	P436406	
		Boron	81.3		ug/L	P436406	
		Cadmium	0.020	U	ug/L	P436406	
		Chromium	1.2	I	ug/L	P436406	
		Cobalt	0.105		ug/L	P436406	
		Copper	1.93		ug/L	P436406	
		Lead	0.20	U	ug/L	P436406	
		Manganese	16.3		ug/L	P436406	
		Molybdenum	0.40	I	ug/L	P436406	
		Nickel	1.1	I	ug/L	P436406	
		Selenium	0.25	I	ug/L	P436406	
		Silver	0.010	U	ug/L	P436406	
		Thallium	0.10	U	ug/L	P436406	
	SM 2340 B-2011	Hardness	347		mg/L	P436406	

Sample Location: Elder Springs at US of Myrtle St

Collection Date/Time: 10/10/2023 11:20

Field ID: G2CE0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2444341	EPA 8321B	Aldicarb	0.020	U	ug/L	P436471	
		Aldicarb Sulfone	0.0020	U	ug/L	P436471	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P436471	MS
		Carbaryl	0.0020	U	ug/L	P436471	MS
		Carbofuran	0.0020	U	ug/L	P436471	MS
		3-Hydroxycarbofuran	0.0020	U	ug/L	P436471	MS
		Methiocarb	0.0020	U	ug/L	P436471	
		Methomyl	0.0020	U	ug/L	P436471	MS
		Oxamyl	0.0020	U	ug/L	P436471	
		Propoxur	0.0020	U	ug/L	P436471	MS
2444342		2,4-D	0.0060	I	ug/L	P436414	
		Acesulfame K	0.14	I	ug/L	P436330	
		2,4,5-T	0.0040	U	ug/L	P436414	
		AMPA	0.51		ug/L	P436330	
		Acetaminophen	0.0080	U	ug/L	P436414	
		Acetamiprid	0.0020	U	ug/L	P436414	
		Endothall	0.25	U	ug/L	P436330	
		Glufosinate	0.10	U	ug/L	P436330	
		Glyphosate	0.10	U	ug/L	P436330	
		Afidopyropen	0.0020	U	ug/L	P436414	
		Bentazon	0.027		ug/L	P436414	
		Sucralose	0.40		ug/L	P436330	
		Benzovindiflupyr	0.0020	U	ug/L	P436414	
		Carbamazepine	8.0E-04	U	ug/L	P436414	
		Clothianidin	0.0020	U	ug/L	P436414	
		Dinotefuran	0.0020	U	ug/L	P436414	
		Diuron	0.0020	U	ug/L	P436414	
		Fenuron	0.032	U	ug/L	P436414	MS
		Fluridone	0.0016	I	ug/L	P436414	
		Imazapyr	0.060		ug/L	P436414	
		Hydrocodone	0.0020	U	ug/L	P436414	
		Ibuprofen	0.080	U	ug/L	P436414	
		Imidacloprid	0.0039	I	ug/L	P436414	
		Linuron	0.0040	U	ug/L	P436414	
		Mandestrobin	0.0020	U	ug/L	P436414	
		MCP	0.0020	U	ug/L	P436414	
		Naproxen	0.0080	U	ug/L	P436414	MS
		Primidone	0.0040	U	ug/L	P436414	
		Pyraclostrobin	0.0020	U	ug/L	P436414	
		Silvex	0.0040	U	ug/L	P436414	
		Thiamethoxam	0.0020	U	ug/L	P436414	
		Tolfenpyrad	0.0020	U	ug/L	P436414	
		Triclopyr	0.0040	U	ug/L	P436414	
2444350	EPA 8270E	Aldrin	0.66	U	ng/L	P436506	

Field ID: G2CE0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2444350	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P436506	
		Alpha-Chlordane	0.20	U	ng/L	P436506	
		PCB-1016	2.0	UJ	ng/L	P436506	LCS
		Beta-BHC	0.10	U	ng/L	P436506	
		PCB-1221	2.0	U	ng/L	P436506	
		Beta-Cyfluthrin	1.3	U	ng/L	P436506	
		PCB-1232	2.0	U	ng/L	P436506	
		Bifenthrin	0.51	U	ng/L	P436506	
		PCB-1242	2.0	U	ng/L	P436506	
		PCB-1248	2.0	U	ng/L	P436506	
		Chlorothalonil	3.7	U	ng/L	P436506	
		PCB-1254	2.0	U	ng/L	P436506	
		Cis-Nonachlor	0.20	U	ng/L	P436506	
		PCB-1260	2.0	UJ	ng/L	P436506	LCS
		Cypermethrin	1.5	U	ng/L	P436506	
		Dacthal	0.15	U	ng/L	P436506	
		DDD-p,p'	0.26	U	ng/L	P436506	
		DDE-p,p'	0.20	U	ng/L	P436506	
		DDT-p,p'	0.82	UJ	ng/L	P436506	MS
		Delta-BHC	0.41	U	ng/L	P436506	
		Deltamethrin	1.3	UJ	ng/L	P436506	MS
		Dichlobenil	0.26	U	ng/L	P436506	
		Dicofol	1.3	U	ng/L	P436506	
		Dieldrin	0.41	U	ng/L	P436506	
		Endosulfan I	0.41	U	ng/L	P436506	
		Endosulfan II	0.92	U	ng/L	P436506	
		Endosulfan Sulfate	0.31	U	ng/L	P436506	
		Endrin	0.92	U	ng/L	P436506	
		Endrin Aldehyde	0.77	U	ng/L	P436506	
		Endrin Ketone	0.41	U	ng/L	P436506	
		Esfenvalerate	0.77	U	ng/L	P436506	
		Ethalfuralin	0.15	U	ng/L	P436506	
		Fenpropathrin	0.26	U	ng/L	P436506	
		Gamma-BHC	0.13	U	ng/L	P436506	
		Gamma-Chlordane	0.20	U	ng/L	P436506	
		Heptachlor	0.20	UJ	ng/L	P436506	MS
		Heptachlor Epoxide	0.26	U	ng/L	P436506	
		Hexachlorobenzene**	1.0	U	ng/L	P436506	
		Kepone	14	UJ	ng/L	P436506	CCV
		Lambda-Cyhalothrin	0.77	U	ng/L	P436506	
		Methoprene	0.77	U	ng/L	P436506	
		Methoxychlor	0.31	U	ng/L	P436506	
		MGK-264	0.20	U	ng/L	P436506	
		Mirex	0.36	U	ng/L	P436506	
		Oxychlordane	0.31	U	ng/L	P436506	

Field ID: G2CE0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2444350	EPA 8270E	Permethrin	1.6	U	ng/L	P436506	MS
		Phenothrin	0.92	U	ng/L	P436506	
		Piperonyl Butoxide	0.15	U	ng/L	P436506	
		Prallethrin	2.0	U	ng/L	P436506	
		Tau-Fluvalinate	0.26	UJ	ng/L	P436506	
		Tetramethrin	0.77	U	ng/L	P436506	
		Trans-Nonachlor	0.20	U	ng/L	P436506	
		Triclosan Methyl	0.15	U	ng/L	P436506	
		Trifluralin	0.20	U	ng/L	P436506	
		Chlordane	2.0	U	ng/L	P436506	
2444351	EPA 8270E	Toxaphene	15	U	ng/L	P436506	RPD
		Oxybenzone**	10	U	ng/L	P436398	
		Acetochlor	0.20	U	ng/L	P436398	
		Octinoxate**	150	U	ng/L	P436398	
		Alachlor	0.41	U	ng/L	P436398	
		Avobenzone**	100	U	ng/L	P436398	
		Ametryn	1.1	U	ng/L	P436398	
		Atrazine	2.8		ng/L	P436398	
		PBDE-47**	4.1	U	ng/L	P436398	
		Atrazine Desethyl	1.3	U	ng/L	P436398	
		PBDE-99**	5.1	U	ng/L	P436398	
		Azinphos Methyl	3.1	U	ng/L	P436398	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P436398	
		Azoxystrobin	0.41	U	ng/L	P436398	
		Bromacil	0.61	U	ng/L	P436398	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P436398	
		Butylate	0.46	U	ng/L	P436398	
		Dechlorane Plus**	31	U	ng/L	P436398	
		Caffeine**	10	I	ng/L	P436398	
		Dechlorane 602**	5.1	U	ng/L	P436398	
		Carbophenothion	0.51	U	ng/L	P436398	
		Dechlorane 603**	4.1	U	ng/L	P436398	
		Carfentrazone Ethyl	0.15	U	ng/L	P436398	
		Hexabromobenzene**	6.1	U	ng/L	P436398	
		Chlorfenapyr	0.31	U	ng/L	P436398	
		PBB-153**	6.1	U	ng/L	P436398	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P436398	
		Pentabromotoluene**	3.1	U	ng/L	P436398	
		Chlorpyrifos Methyl	0.10	U	ng/L	P436398	
		Tris(2-chloroethyl) phosphate (TCEP)**	56	U	ng/L	P436398	
		Coumaphos	1.1	U	ng/L	P436398	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	46	I	ng/L	P436398	
		Cyanazine	5.1	U	ng/L	P436398	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	3.4	I	ng/L	P436398	

Field ID: G2CE0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2444351	EPA 8270E	Cyprodinil	0.20	U	ng/L	P436398	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P436398	
		Demeton	3.6	U	ng/L	P436398	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	61	U	ng/L	P436398	
		Diazinon	0.13	U	ng/L	P436398	
		Difenoconazole	0.61	U	ng/L	P436398	MS
		Dimethenamid	0.10	U	ng/L	P436398	
		Dimethomorph	0.31	U	ng/L	P436398	
		Disulfoton	0.61	U	ng/L	P436398	
		Dithiopyr	1.0	U	ng/L	P436398	
		EPTC	0.51	U	ng/L	P436398	
		Ethion	0.31	U	ng/L	P436398	
		Ethoprop	0.13	UJ	ng/L	P436398	CCV
		Etridiazole	0.10	U	ng/L	P436398	RPD
		Fenamiphos	0.46	U	ng/L	P436398	
		Fenbuconazole	0.51	U	ng/L	P436398	
		Fipronil	0.24	I	ng/L	P436398	
		Fipronil Desulfinyl**	0.48	I	ng/L	P436398	
		Fipronil Sulfide	0.52		ng/L	P436398	
		Fipronil Sulfone	0.52		ng/L	P436398	
		Fluazifop-P-butyl	0.10	UJ	ng/L	P436398	LCS, MS
		Fludioxonil	0.10	U	ng/L	P436398	
		Flumioxazin	3.1	U	ng/L	P436398	
		Flutolanil	0.10	U	ng/L	P436398	
		Fluxapyroxad	0.26	UJ	ng/L	P436398	CCV, LCS
		Fonofos	0.15	U	ng/L	P436398	
		Hexazinone	0.51	U	ng/L	P436398	
		Imazalil	0.66	U	ng/L	P436398	
		Iprodione	0.51	U	ng/L	P436398	
		Loratadine**	0.31	U	ng/L	P436398	
		Malathion	0.36	U	ng/L	P436398	
		Metalaxyl	0.51	U	ng/L	P436398	
		Metolachlor	0.77	U	ng/L	P436398	
		Metribuzin	0.41	U	ng/L	P436398	
		Mevinphos	1.0	U	ng/L	P436398	
		Molinate	0.26	U	ng/L	P436398	
		Myclobutanil	0.36	U	ng/L	P436398	
		Naled	2.6	U	ng/L	P436398	
		Napropamide	0.71	U	ng/L	P436398	
		Norflurazon	1.0	U	ng/L	P436398	
		Oxadiazon	0.38	I	ng/L	P436398	
		Oxyfluorfen	0.20	U	ng/L	P436398	
		Parathion Ethyl	0.15	U	ng/L	P436398	
		Parathion Methyl	0.20	U	ng/L	P436398	

Field ID: G2CE0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2444351	EPA 8270E	Pendimethalin	1.7	U	ng/L	P436398	
		Phenytain**	5.4	U	ng/L	P436398	
		Phorate	0.26	U	ng/L	P436398	
		Prodiamine	0.20	U	ng/L	P436398	
		Prometon	3.1	U	ng/L	P436398	
		Prometryn	0.36	U	ng/L	P436398	
		Pronamide	0.10	U	ng/L	P436398	
		Propanil	0.10	U	ng/L	P436398	
		Propargite	0.82	U	ng/L	P436398	
		Propiconazole	0.61	U	ng/L	P436398	
		Pyraflufen Ethyl	0.31	U	ng/L	P436398	
		Pyridaben	1.4	U	ng/L	P436398	
		Pyriproxyfen	0.26	U	ng/L	P436398	
		Simazine	0.26	U	ng/L	P436398	
		Stirophos	0.41	U	ng/L	P436398	
		Sulfentrazone	1.4	U	ng/L	P436398	MS
		Tebuconazole	1.4	U	ng/L	P436398	
		Terbufos	0.20	U	ng/L	P436398	
		Terbuthylazine	0.20	U	ng/L	P436398	
		Thiobencarb	0.51	U	ng/L	P436398	
2444354	EPA 200.7 Rev. 4.4	Triadimefon	0.15	U	ng/L	P436398	
		Calcium	26.8		mg/L	P436406	
		Iron	510		ug/L	P436406	
		Magnesium	4.30		mg/L	P436406	
		Potassium	1.6		mg/L	P436406	
		Sodium	27.7		mg/L	P436406	
		Strontium	127		ug/L	P436406	
		Tin	5.3	I	ug/L	P436406	
		Titanium	1.8	I	ug/L	P436406	
		Vanadium	2.0	U	ug/L	P436406	
		Zinc	5.0	U	ug/L	P436406	
	EPA 200.8 Rev. 5.4	Aluminum	132		ug/L	P436406	
		Antimony	0.097	I	ug/L	P436406	
		Arsenic	0.71		ug/L	P436406	
		Barium	15.9		ug/L	P436406	
		Beryllium	0.010	U	ug/L	P436406	
		Boron	34.7		ug/L	P436406	
		Cadmium	0.020	U	ug/L	P436406	
		Chromium	0.60	I	ug/L	P436406	
		Cobalt	0.094		ug/L	P436406	
		Copper	0.51	I	ug/L	P436406	
		Lead	0.26	I	ug/L	P436406	
		Manganese	6.93		ug/L	P436406	
		Molybdenum	0.31	I	ug/L	P436406	
		Nickel	0.50	U	ug/L	P436406	

Field ID: G2CE0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2444354	EPA 200.8 Rev. 5.4	Selenium	0.20	U	ug/L	P436406	
		Silver	0.046		ug/L	P436406	
		Thallium	0.10	U	ug/L	P436406	
	SM 2340 B-2011	Hardness	84.6		mg/L	P436406	

Ref. Method and Comment:
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Phelps Creek 85M N of Lake Mary BLVD

Collection Date/Time: 10/10/2023 11:00

Field ID: G2CE0247

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2444338	EPA 8321B	2,4-D	0.0036	I	ug/L	P436414	
		Acesulfame K	0.10	U	ug/L	P436253	
		2,4,5-T	0.0040	U	ug/L	P436414	
		AMPA	0.10	U	ug/L	P436253	
		Acetaminophen	0.0080	U	ug/L	P436414	
		Acetamiprid	0.0020	U	ug/L	P436414	
		Endothall	0.25	U	ug/L	P436253	
		Glufosinate	0.10	U	ug/L	P436253	
		Glyphosate	0.10	U	ug/L	P436253	
		Afidopyropen	0.0020	U	ug/L	P436414	
		Bentazon	0.024		ug/L	P436414	
		Sucralose	0.13		ug/L	P436253	
		Benzovindiflupyr	0.0020	U	ug/L	P436414	
		Carbamazepine	8.0E-04	U	ug/L	P436414	
		Clothianidin	0.0020	U	ug/L	P436414	
		Dinotefuran	0.0020	U	ug/L	P436414	
		Diuron	0.0020	U	ug/L	P436414	
		Fenuron	0.032	U	ug/L	P436414	MS
		Fluridone	8.0E-04	U	ug/L	P436414	
		Imazapyr	0.027		ug/L	P436414	
		Hydrocodone	0.0020	U	ug/L	P436414	
		Ibuprofen	0.080	U	ug/L	P436414	
		Imidacloprid	0.0020	U	ug/L	P436414	
		Linuron	0.0040	U	ug/L	P436414	
		Mandestrobin	0.0020	U	ug/L	P436414	
		MCPP	0.0020	U	ug/L	P436414	
		Naproxen	0.0080	U	ug/L	P436414	MS
		Primidone	0.0040	U	ug/L	P436414	
		Pyraclostrobin	0.0020	U	ug/L	P436414	
		Silvex	0.0040	U	ug/L	P436414	
		Thiamethoxam	0.0020	U	ug/L	P436414	
		Tolfenpyrad	0.0020	U	ug/L	P436414	
		Triclopyr	0.0040	U	ug/L	P436414	

Quality Assurance Report

Method Blank Results

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P436406

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: P436406

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

Reference Method: EPA 8270E

Batch ID: P436398

Component	Result	Code	Units
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	60	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.45	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P436398

Component	Result	Code	Units
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	150	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P436398

Component	Result	Code	Units
Parathion Methyl	0.20	U	ng/L
PBB-153	6.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.7	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	25	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	55	U	ng/L

Reference Method: EPA 8270E

Batch ID: P436506

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.80	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P436506

Component	Result	Code	Units
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	14	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276

Batch ID: P436506

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

Reference Method: EPA 8321B

Batch ID: P436253

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P436253

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

Reference Method: EPA 8321B

Batch ID: P436330

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

Reference Method: EPA 8321B

Batch ID: P436414

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	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: P436471

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P436406

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	101		P	85 - 115
Iron	105		P	85 - 115
Magnesium	107		P	85 - 115
Potassium	98.0		P	85 - 115
Sodium	100		P	85 - 115
Strontium	101		P	85 - 115
Tin	106		P	85 - 115
Titanium	101		P	85 - 115
Vanadium	103		P	85 - 115
Zinc	105		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P436406

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	95.6		P	85 - 115
Antimony	96.1		P	85 - 115
Arsenic	96.7		P	85 - 115
Barium	99.1		P	85 - 115
Beryllium	93.0		P	85 - 115
Boron	98.2		P	85 - 115
Cadmium	98.4		P	85 - 115
Chromium	96.1		P	85 - 115
Cobalt	96.4		P	85 - 115
Copper	94.7		P	85 - 115
Lead	92.8		P	85 - 115
Manganese	96.0		P	85 - 115
Molybdenum	95.8		P	85 - 115
Nickel	95.2		P	85 - 115
Selenium	95.2		P	85 - 115
Silver	107		P	85 - 115
Thallium	98.0		P	85 - 115

Reference Method: EPA 8270E

Batch ID: P436398

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	78.0		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	47.9		P	37 - 154
Acetochlor	80.3		P	64 - 124
Alachlor	67.8		P	61 - 118
Ametryn	154		P	47 - 158
Atrazine	88.1		P	68 - 121
Atrazine Desethyl	82.4		P	30 - 119
Avobenzone	108		P	48 - 193
Azinphos Methyl	61.6		P	30 - 194
Azoxystrobin	77.8		P	58 - 154
Bromacil	102		P	47 - 126
Butylate	71.4		P	31 - 83.0
Caffeine	137		P	10 - 180
Carbophenothion	91.2		P	59 - 133
Carfentrazone Ethyl	101		P	59 - 147

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P436398

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorfenapyr	81.1		P	52 - 118
Chlorpyrifos Ethyl	94.7		P	59 - 119
Chlorpyrifos Methyl	118		P	65 - 123
Coumaphos	104		P	11 - 223
Cyanazine	213		P	63 - 250
Cyprodinil	133		P	52 - 143
Dechlorane 602	51.5		P	23 - 142
Dechlorane 603	107		P	51 - 171
Dechlorane Plus	97.3		P	46 - 161
Demeton	96.9		P	42 - 119
Diazinon	129		P	67 - 132
Difenoconazole	39.1		P	12 - 204
Dimethenamid	64.0		P	53 - 113
Dimethomorph	167		P	13 - 238
Disulfoton	90.2		P	56 - 126
Dithiopyr	78.3		P	58 - 127
EPTC	68.5		P	31 - 78.0
Ethion	46.8		P	24 - 127
Ethoprop	102		P	60 - 118
Etridiazole	66.4		P	32 - 91.0
Fenamiphos	92.1		P	54 - 129
Fenbuconazole	44.4		P	31 - 162
Fipronil	119		P	56 - 131
Fipronil Desulfinyl	74.5		P	58 - 132
Fipronil Sulfide	85.2		P	51 - 123
Fipronil Sulfone	95.8		P	50 - 125
Fluazifop-P-butyl	140		F	52 - 132
Fludioxonil	82.1		P	52 - 129
Flumioxazin	42.9		P	34 - 250
Flutolanil	104		P	45 - 128
Fluxapyroxad	29.8		F	31 - 150
Fonofos	101		P	60 - 116
Hexabromobenzene	81.7		P	52 - 165
Hexazinone	92.7		P	59 - 120
Imazalil	81.2		P	39 - 134
Iprodione	118		P	39 - 243
Loratadine	134		P	10 - 240
Malathion	111		P	53 - 145
Metalaxyl	74.9		P	59 - 120
Metolachlor	113		P	64 - 122
Metribuzin	42.2		P	33 - 128
Mevinphos	94.9		P	48 - 119
Molinate	79.7		P	42 - 89.0
Myclobutanil	81.3		P	54 - 129
Naled	33.4		P	10 - 138
Napropamide	74.3		P	40 - 122
Norflurazon	52.3		P	49 - 132
Octinoxate	123		P	29 - 176
Oxadiazon	71.5		P	50 - 115
Oxybenzone	115		P	45 - 145
Oxyfluorfen	113		P	62 - 149
Parathion Ethyl	110		P	68 - 119

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P436398

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Parathion Methyl	96.7		P	68 - 147
PBB-153	61.4		P	42 - 179
PBDE-47	73.7		P	44 - 141
PBDE-99	54.3		P	36 - 141
Pendimethalin	112		P	59 - 158
Pentabromotoluene	93.6		P	58 - 148
Phenytoin	32.9		P	10 - 151
Phorate	96.8		P	44 - 124
Prodiamine	34.9		P	10 - 136
Prometon	113		P	45 - 131
Prometryn	126		P	52 - 140
Pronamide	108		P	70 - 129
Propanil	103		P	54 - 144
Propargite	48.9		P	10 - 191
Propiconazole	64.1		P	49 - 128
Pyraflufen Ethyl	70.1		P	46 - 141
Pyridaben	84.6		P	29 - 198
Pyriproxyfen	50.1		P	33 - 221
Simazine	84.3		P	62 - 119
Stiropfos	28.4		P	13 - 144
Sulfentrazone	23.2		P	12 - 152
Tebuconazole	43.8		P	10 - 135
Terbufos	113		P	67 - 136
Terbuthylazine	94.5		P	66 - 113
Tetradecachloro-m-terphenyl	149		P	30 - 235
Thiobencarb	82.0		P	51 - 125
Tri-o-cresyl Phosphate	107		P	50 - 150
Triadimefon	83.3		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	127		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	93.7		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	104		P	59 - 166

Reference Method: EPA 8270E

Batch ID: P436506

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	86.2		P	30 - 96.0
Alpha-BHC	94.6		P	70 - 109
Alpha-Chlordane	96.3		P	45 - 107
Beta-BHC	95.7		P	64 - 138
Beta-Cyfluthrin	100		P	17 - 141
Bifenthrin	96.8		P	10 - 113
Chlorothalonil	71.5		P	26 - 180
Cis-Nonachlor	97.2		P	37 - 102
Cypermethrin	93.0		P	20 - 133
Dacthal	94.2		P	69 - 114
DDD-p,p'	89.7		P	42 - 105
DDE-p,p'	98.5		P	42 - 106
DDT-p,p'	99.9		P	42 - 107
Delta-BHC	80.6		P	67 - 144
Deltamethrin	92.3		P	15 - 149
Dichlobenil	85.7		P	46 - 117

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P436506

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dicofol	96.6		P	34 - 114
Dieldrin	97.9		P	50 - 108
Endosulfan I	90.1		P	55 - 104
Endosulfan II	82.8		P	51 - 111
Endosulfan Sulfate	83.7		P	56 - 121
Endrin	103		P	10 - 106
Endrin Aldehyde	87.9		P	34 - 114
Endrin Ketone	104		P	63 - 177
Esfenvalerate	99.7		P	29 - 143
Ethalfuralin	92.6		P	46 - 96.0
Fenpropathrin	98.4		P	28 - 115
Gamma-BHC	108		P	65 - 121
Gamma-Chlordane	101		P	39 - 103
Heptachlor	85.5		P	39 - 94.0
Heptachlor Epoxide	97.6		P	54 - 104
Hexachlorobenzene	84.1		P	36 - 100
Kepone	28.8		P	10 - 225
Lambda-Cyhalothrin	97.4		P	10 - 135
Methoprene	97.9		P	10 - 109
Methoxychlor	92.9		P	52 - 112
MGK-264	103		P	44 - 117
Mirex	89.1		P	20 - 90.0
Oxychlordane	95.2		P	44 - 102
PCB-1016	109		F	45 - 107
PCB-1260	130		F	40 - 118
Permethrin	92.1		P	18 - 135
Phenothrin	94.9		P	10 - 102
Piperonyl Butoxide	108		P	28 - 156
Prallethrin	96.6		P	28 - 113
Tau-Fluvalinate	92.9		P	10 - 123
Tetramethrin	99.0		P	18 - 158
Trans-Nonachlor	102		P	39 - 104
Triclosan Methyl	92.2		P	54 - 108
Trifluralin	95.4		P	46 - 97.0

Reference Method: EPA 8276

Batch ID: P436506

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	101		P	52 - 117
Toxaphene	106		P	44 - 125

Reference Method: EPA 8321B

Batch ID: P436253

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	95.4		P	40 - 150
AMPA	72.8		P	40 - 150
Endothall	94.3		P	40 - 150
Glufosinate	103		P	40 - 150
Glyphosate	94.2		P	40 - 150
Sucralose	124		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P436330

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	101		P	40 - 150
AMPA	85.5		P	40 - 150
Endothall	97.0		P	40 - 150
Glufosinate	91.6		P	40 - 150
Glyphosate	86.8		P	40 - 150
Sucralose	105		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P436414

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	62.9		P	40 - 150
2,4,5-T	68.5		P	40 - 150
Acetaminophen	81.1		P	30 - 150
Acetamiprid	81.1		P	40 - 150
Afidopyropen	69.5		P	30 - 150
Bentazon	94.8		P	30 - 150
Benzovindiflupyr	93.1		P	40 - 150
Carbamazepine	71.3		P	40 - 150
Clothianidin	81.9		P	40 - 150
Dinotefuran	92.7		P	40 - 150
Diuron	69.1		P	40 - 150
Fenuron	87.5		P	40 - 150
Fluridone	74.2		P	40 - 150
Hydrocodone	84.3		P	40 - 150
Ibuprofen	65.7		P	40 - 150
Imazapyr	73.9		P	40 - 150
Imidacloprid	79.2		P	40 - 150
Linuron	58.0		P	40 - 150
Mandestrobin	80.1		P	40 - 150
MCPP	77.9		P	40 - 150
Naproxen	62.6		P	40 - 150
Primidone	76.1		P	40 - 150
Pyraclostrobin	70.4		P	40 - 150
Silvex	68.5		P	40 - 150
Thiamethoxam	77.1		P	40 - 150
Tolfenpyrad	54.5		P	30 - 150
Triclopyr	69.6		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P436471

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	94.5		P	40 - 150
Aldicarb	70.1		P	30 - 150
Aldicarb Sulfone	103		P	40 - 150
Aldicarb Sulfoxide	111		P	40 - 150
Carbaryl	72.4		P	40 - 150
Carbofuran	79.6		P	40 - 150
Methiocarb	62.8		P	40 - 150
Methomyl	88.1		P	40 - 150
Oxamyl	97.2		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P436471

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Propoxur	79.0		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P436406

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444081	Calcium	103		P	80 - 120
2444081	Iron	104	105	P/P	80 - 120
2444081	Magnesium	105	107	P/P	80 - 120
2444081	Potassium	98.3	103	P/P	80 - 120
2444081	Sodium	100	106	P/P	80 - 120
2444081	Strontium	101	103	P/P	80 - 120
2444081	Tin	102	102	P/P	80 - 120
2444081	Titanium	104	104	P/P	80 - 120
2444081	Vanadium	103	104	P/P	80 - 120
2444081	Zinc	104	105	P/P	80 - 120
2444455	Calcium	101		P	80 - 120
2444455	Iron	103		P	80 - 120
2444455	Magnesium	103		P	80 - 120
2444455	Potassium	106		P	80 - 120
2444455	Sodium	98.9		P	80 - 120
2444455	Strontium	102		P	80 - 120
2444455	Tin	104		P	80 - 120
2444455	Titanium	104		P	80 - 120
2444455	Vanadium	103		P	80 - 120
2444455	Zinc	106		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P436406

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444081	Aluminum	97.4	97.4	P/P	80 - 120
2444081	Antimony	100	103	P/P	80 - 120
2444081	Arsenic	97.5	98.2	P/P	80 - 120
2444081	Barium	102	104	P/P	80 - 120
2444081	Beryllium	94.2	94.5	P/P	80 - 120
2444081	Boron	107	107	P/P	80 - 120
2444081	Cadmium	103	103	P/P	80 - 120
2444081	Chromium	102	101	P/P	80 - 120
2444081	Cobalt	95.9	95.6	P/P	80 - 120
2444081	Copper	93.3	93.0	P/P	80 - 120
2444081	Lead	95.2	96.4	P/P	80 - 120
2444081	Manganese	100	103	P/P	80 - 120
2444081	Molybdenum	102	102	P/P	80 - 120
2444081	Nickel	92.6	92.1	P/P	80 - 120
2444081	Selenium	94.3	94.3	P/P	80 - 120
2444081	Silver	108	109	P/P	80 - 120
2444081	Thallium	103	104	P/P	80 - 120
2444455	Aluminum	97.9		P	80 - 120
2444455	Antimony	103		P	80 - 120
2444455	Arsenic	96.9		P	80 - 120
2444455	Barium	102		P	80 - 120
2444455	Beryllium	93.8		P	80 - 120
2444455	Boron	109		P	80 - 120
2444455	Cadmium	102		P	80 - 120
2444455	Chromium	104		P	80 - 120
2444455	Cobalt	95.0		P	80 - 120
2444455	Copper	90.7		P	80 - 120

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P436406

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444455	Lead	95.4		P	80 - 120
2444455	Manganese	103		P	80 - 120
2444455	Molybdenum	100		P	80 - 120
2444455	Nickel	91.8		P	80 - 120
2444455	Selenium	91.6		P	80 - 120
2444455	Silver	110		P	80 - 120
2444455	Thallium	102		P	80 - 120

Reference Method: EPA 8270E

Batch ID: P436398

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444261	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	77.4	97.3	P/P	50 - 150
2444261	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	89.4	114	P/P	29 - 155
2444261	Acetochlor	97.1	98.2	P/P	60 - 124
2444261	Alachlor	76.0	81.8	P/P	54 - 122
2444261	Ametryn	123	146	P/P	51 - 208
2444261	Atrazine Desethyl	77.8	102	P/P	13 - 124
2444261	Avobenzene	98.9	143	P/P	35 - 187
2444261	Azinphos Methyl	57.7	90.7	P/P	43 - 276
2444261	Azoxystrobin	98.2	106	P/P	52 - 300
2444261	Bromacil	104	112	P/P	44 - 134
2444261	Butylate	77.4	67.0	P/P	23 - 82.0
2444261	Caffeine	87.2	96.2	P/P	10 - 277
2444261	Carbophenothion	96.8	99.0	P/P	47 - 135
2444261	Carfentrazone Ethyl	99.7	95.1	P/P	46 - 147
2444261	Chlorfenapyr	63.6	64.4	P/P	43 - 114
2444261	Chlorpyrifos Ethyl	120	108	P/P	47 - 124
2444261	Chlorpyrifos Methyl	123	128	P/P	60 - 135
2444261	Coumaphos	63.0	127	P/P	10 - 222
2444261	Cyanazine	128	113	P/P	10 - 257
2444261	Cyprodinil	112	115	P/P	42 - 148
2444261	Dechlorane 602	53.6	73.0	P/P	14 - 133
2444261	Dechlorane 603	94.1	105	P/P	18 - 191
2444261	Dechlorane Plus	81.2	80.7	P/P	23 - 154
2444261	Demeton	80.1	78.1	P/P	41 - 137
2444261	Diazinon	137	115	P/P	64 - 139
2444261	Difenoconazole	43.6	90.5	F/P	46 - 254
2444261	Dimethenamid	77.7	85.0	P/P	47 - 117
2444261	Dimethomorph	138	255	P/P	14 - 255
2444261	Disulfoton	115	113	P/P	52 - 130
2444261	Dithiopyr	60.6	57.2	P/P	40 - 121
2444261	EPTC	70.2	61.3	P/P	19 - 78.0
2444261	Ethion	52.9	76.9	P/P	12 - 124
2444261	Ethoprop	99.5	98.4	P/P	68 - 144
2444261	Etridiazole	65.2	36.4	P/P	26 - 96.0
2444261	Fenamiphos	115	129	P/P	41 - 129
2444261	Fenbuconazole	36.4	78.9	P/P	26 - 169
2444261	Fipronil	87.8	101	P/P	46 - 145
2444261	Fipronil Desulfinyl	95.3	110	P/P	47 - 136
2444261	Fipronil Sulfide	90.0	105	P/P	41 - 127
2444261	Fipronil Sulfone	78.0	73.3	P/P	35 - 133

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P436398

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444261	Fluazifop-P-butyl	136	112	F/P	46 - 131
2444261	Fludioxonil	80.6	74.5	P/P	51 - 124
2444261	Flumioxazin	71.8	117	P/P	10 - 289
2444261	Flutolanil	69.3	75.5	P/P	34 - 130
2444261	Fluxapyroxad	46.4	46.3	P/P	10 - 197
2444261	Fonofos	103	94.1	P/P	42 - 131
2444261	Hexabromobenzene	102	114	P/P	47 - 178
2444261	Imazail	43.5	67.2	P/P	37 - 252
2444261	Iprodione	83.2	92.8	P/P	34 - 265
2444261	Loratadine	208	169	P/P	20 - 231
2444261	Malathion	93.6	91.1	P/P	34 - 164
2444261	Metaxyl	76.5	90.4	P/P	49 - 125
2444261	Metolachlor	88.4	92.2	P/P	54 - 125
2444261	Metribuzin	73.2	62.1	P/P	51 - 139
2444261	Mevinphos	89.4	104	P/P	46 - 130
2444261	Molinate	67.0	61.7	P/P	39 - 93.0
2444261	Myclobutanil	78.3	92.3	P/P	50 - 130
2444261	Naled	59.2	81.9	P/P	10 - 150
2444261	Napropamide	66.5	84.4	P/P	10 - 109
2444261	Norflurazon	69.8	84.9	P/P	36 - 134
2444261	Octinoxate	107	116	P/P	18 - 170
2444261	Oxadiazon	75.2	87.5	P/P	43 - 112
2444261	Oxybenzone	110	124	P/P	33 - 154
2444261	Oxyfluorfen	111	118	P/P	62 - 154
2444261	Parathion Ethyl	97.5	100	P/P	65 - 120
2444261	Parathion Methyl	142	149	P/P	77 - 185
2444261	PBB-153	98.3	132	P/P	23 - 193
2444261	PBDE-47	82.0	101	P/P	31 - 139
2444261	PBDE-99	70.9	96.7	P/P	24 - 138
2444261	Pendimethalin	117	119	P/P	50 - 146
2444261	Pentabromotoluene	92.6	102	P/P	54 - 152
2444261	Phenytoin	50.5	57.0	P/P	10 - 157
2444261	Phorate	112	91.9	P/P	54 - 161
2444261	Prodiamine	60.6	63.2	P/P	29 - 160
2444261	Prometon	118	130	P/P	38 - 145
2444261	Prometryn	108	107	P/P	32 - 151
2444261	Pronamide	112	125	P/P	61 - 140
2444261	Propanil	100	110	P/P	50 - 147
2444261	Propargite	56.0	67.9	P/P	10 - 190
2444261	Propiconazole	66.7	74.6	P/P	30 - 146
2444261	Pyraflufen Ethyl	79.3	87.9	P/P	30 - 147
2444261	Pyridaben	33.4	79.3	P/P	15 - 195
2444261	Pyriproxyfen	63.5	90.8	P/P	31 - 218
2444261	Stirophos	23.6	21.3	P/P	10 - 134
2444261	Sulfentrazone	46.3	56.6	F/P	53 - 186
2444261	Tebuconazole	41.2	61.6	P/P	10 - 133
2444261	Terbufos	106	100	P/P	65 - 151
2444261	Terbuthylazine	83.2	98.8	P/P	62 - 117
2444261	Tetradecachloro-m-terphenyl	146	137	P/P	10 - 260
2444261	Thiobencarb	87.9	90.9	P/P	48 - 122
2444261	Tri-o-cresyl Phosphate	100	118	P/P	32 - 151
2444261	Triadimefon	57.1	75.3	P/P	46 - 124

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P436398

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444261	Tris(1-chloro-2-propyl) phosphate (TCPP)	111	121	P/P	51 - 154
2444261	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	92.9	96.3	P/P	59 - 147
2444261	Tris(2-chloroethyl) phosphate (TCEP)	106	113	P/P	65 - 156

Reference Method: EPA 8270E

Batch ID: P436506

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444350	Aldrin	72.2	66.7	P/P	24 - 81.0
2444350	Alpha-BHC	85.6	88.6	P/P	65 - 110
2444350	Alpha-Chlordane	63.4	68.5	P/P	43 - 119
2444350	Beta-BHC	86.8	96.6	P/P	54 - 165
2444350	Beta-Cyfluthrin	126	164	P/P	27 - 165
2444350	Bifenthrin	109	108	P/P	17 - 117
2444350	Chlorothalonil	113	133	P/P	10 - 255
2444350	Cis-Nonachlor	64.1	63.4	P/P	34 - 98.0
2444350	Cypermethrin	119	131	P/P	25 - 143
2444350	Dacthal	79.5	69.8	P/P	55 - 139
2444350	DDD-p,p'	75.6	66.5	P/P	30 - 109
2444350	DDE-p,p'	73.9	65.4	P/P	35 - 106
2444350	DDT-p,p'	130	116	F/F	41 - 101
2444350	Delta-BHC	101	114	P/P	58 - 165
2444350	Deltamethrin	182	197	P/F	10 - 194
2444350	Dichlobenil	46.2	58.5	P/P	22 - 114
2444350	Dicofol	92.3	85.1	P/P	17 - 133
2444350	Dieldrin	83.7	79.9	P/P	45 - 129
2444350	Endosulfan I	87.8	89.6	P/P	49 - 104
2444350	Endosulfan II	66.1	67.4	P/P	37 - 117
2444350	Endosulfan Sulfate	46.2	59.0	P/P	38 - 128
2444350	Endrin	73.5	58.3	P/P	35 - 116
2444350	Endrin Aldehyde	37.1	41.3	P/P	19 - 108
2444350	Endrin Ketone	76.9	82.0	P/P	44 - 134
2444350	Esfenvalerate	145	165	P/P	27 - 176
2444350	Ethalfuralin	83.8	80.3	P/P	49 - 100
2444350	Fenpropathrin	109	98.6	P/P	34 - 117
2444350	Gamma-BHC	113	107	P/P	59 - 129
2444350	Gamma-Chlordane	84.3	93.6	P/P	33 - 107
2444350	Heptachlor	102	84.1	F/P	37 - 94.0
2444350	Heptachlor Epoxide	95.4	86.6	P/P	38 - 118
2444350	Hexachlorobenzene	63.4	72.5	P/P	35 - 97.0
2444350	Kepone	22.0	26.0	P/P	10 - 221
2444350	Lambda-Cyhalothrin	130	133	P/P	23 - 190
2444350	Methoprene	85.6	73.6	P/P	21 - 109
2444350	Methoxychlor	97.6	101	P/P	46 - 118
2444350	MGK-264	84.9	80.5	P/P	39 - 122
2444350	Mirex	75.7	80.7	P/P	25 - 90.0
2444350	Oxychlordane	84.5	89.4	P/P	42 - 100
2444350	Permethrin	116	113	P/P	33 - 181
2444350	Phenothrin	116	119	P/P	12 - 125
2444350	Piperonyl Butoxide	120	120	P/P	10 - 178
2444350	Prallethrin	68.7	57.5	P/P	24 - 122
2444350	Tau-Fluvalinate	139	154	P/F	13 - 151

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P436506

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444350	Tetramethrin	119	127	P/P	16 - 172
2444350	Trans-Nonachlor	78.9	68.9	P/P	39 - 100
2444350	Triclosan Methyl	69.6	71.9	P/P	43 - 110
2444350	Trifluralin	80.2	77.9	P/P	45 - 94.0
2444518	PCB-1016	84.6	79.7	P/P	45 - 107
2444518	PCB-1260	87.0	84.8	P/P	40 - 112

Reference Method: EPA 8276

Batch ID: P436506

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444518	Chlordane	86.3	71.9	P/P	43 - 123
2444518	Toxaphene	103	81.9	P/P	27 - 156

Reference Method: EPA 8321B

Batch ID: P436253

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444338	Acesulfame K	108	112	P/P	40 - 150
2444338	AMPA	71.4	70.7	P/P	40 - 150
2444338	Endothall	110	106	P/P	40 - 150
2444338	Glufosinate	98.5	94.8	P/P	40 - 150
2444338	Glyphosate	79.2	75.1	P/P	40 - 150
2444338	Sucralose	129	129	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P436330

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444339	Acesulfame K	131	135	P/P	40 - 150
2444339	AMPA	86.2	96.9	P/P	40 - 150
2444339	Endothall	119	122	P/P	40 - 150
2444339	Glufosinate	92.1	86.6	P/P	40 - 150
2444339	Glyphosate	103	102	P/P	40 - 150
2444339	Sucralose	98.2	110	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P436414

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444259	2,4-D	91.3	99.7	P/P	40 - 150
2444259	2,4,5-T	93.9	104	P/P	40 - 150
2444259	Acetaminophen	75.7	80.7	P/P	30 - 150
2444259	Acetamiprid	50.9	52.1	P/P	40 - 150
2444259	Afidopyropen	70.5	70.9	P/P	30 - 150
2444259	Bentazon	86.7	85.1	P/P	30 - 150
2444259	Benzovindiflupyr	80.1	86.6	P/P	40 - 150
2444259	Carbamazepine	43.1	45.1	P/P	40 - 150
2444259	Clothianidin	54.9	58.6	P/P	40 - 150
2444259	Dinotefuran	57.3	59.9	P/P	40 - 150
2444259	Diuron	42.3	42.5	P/P	40 - 150
2444259	Fenuron	33.2	35.6	F/F	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P436414

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444259	Fluridone	51.7	54.2	P/P	40 - 150
2444259	Hydrocodone	54.7	58.0	P/P	40 - 150
2444259	Ibuprofen	51.8	50.1	P/P	40 - 150
2444259	Imazapyr	82.3	73.0	P/P	40 - 150
2444259	Imidacloprid	76.8	79.7	P/P	40 - 150
2444259	Linuron	54.2	49.7	P/P	40 - 150
2444259	Mandestrobin	66.5	73.4	P/P	40 - 150
2444259	MCCPP	107	114	P/P	40 - 150
2444259	Naproxen	171	149	F/P	40 - 150
2444259	Primidone	57.9	51.1	P/P	40 - 150
2444259	Pyraclostrobin	79.4	79.7	P/P	40 - 150
2444259	Silvex	93.3	107	P/P	40 - 150
2444259	Thiamethoxam	63.8	66.6	P/P	40 - 150
2444259	Tolfenpyrad	58.7	61.9	P/P	30 - 150
2444259	Triclopyr	97.9	106	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P436471

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444258	3-Hydroxycarbofuran	37.7	44.2	F/P	40 - 150
2444258	Aldicarb	30.5	32.7	P/P	30 - 150
2444258	Aldicarb Sulfone	45.9	49.7	P/P	40 - 150
2444258	Aldicarb Sulfoxide	16.6	17.3	F/F	40 - 150
2444258	Carbaryl	37.6	40.8	F/P	40 - 150
2444258	Carbofuran	31.4	34.3	F/F	40 - 150
2444258	Methiocarb	44.4	49.7	P/P	40 - 150
2444258	Methomyl	32.9	37.3	F/F	40 - 150
2444258	Oxamyl	43.3	47.9	P/P	40 - 150
2444258	Propoxur	30.9	33.5	F/F	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P436406

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444081	Calcium	1.98	Spike	P	0 - 20
2444081	Iron	0.778	Spike	P	0 - 20
2444081	Magnesium	1.62	Spike	P	0 - 20
2444081	Potassium	3.05	Spike	P	0 - 20
2444081	Sodium	2.99	Spike	P	0 - 20
2444081	Strontium	1.67	Spike	P	0 - 20
2444081	Tin	0.489	Spike	P	0 - 20
2444081	Titanium	0.0434	Spike	P	0 - 20
2444081	Vanadium	0.317	Spike	P	0 - 20
2444081	Zinc	1.32	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P436406

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444081	Aluminum	0.0135	Spike	P	0 - 20
2444081	Antimony	2.45	Spike	P	0 - 20
2444081	Arsenic	0.701	Spike	P	0 - 20
2444081	Barium	1.26	Spike	P	0 - 20
2444081	Beryllium	0.390	Spike	P	0 - 20
2444081	Boron	0.173	Spike	P	0 - 20
2444081	Cadmium	0.0364	Spike	P	0 - 20
2444081	Chromium	0.563	Spike	P	0 - 20
2444081	Cobalt	0.299	Spike	P	0 - 20
2444081	Copper	0.313	Spike	P	0 - 20
2444081	Lead	1.32	Spike	P	0 - 20
2444081	Manganese	1.15	Spike	P	0 - 20
2444081	Molybdenum	0.0603	Spike	P	0 - 20
2444081	Nickel	0.468	Spike	P	0 - 20
2444081	Selenium	0.0270	Spike	P	0 - 20
2444081	Silver	1.22	Spike	P	0 - 20
2444081	Thallium	1.38	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P436398

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444261	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	22.8	Spike	P	0 - 30
2444261	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	24.3	Spike	P	0 - 35
2444261	Acetochlor	1.09	Spike	P	0 - 28
2444261	Alachlor	7.38	Spike	P	0 - 30
2444261	Ametryn	16.7	Spike	P	0 - 32
2444261	Atrazine	2.86	Spike	P	0 - 33
2444261	Atrazine Desethyl	24.0	Spike	P	0 - 36
2444261	Avobenzone	36.3	Spike	F	0 - 35
2444261	Azinphos Methyl	44.5	Spike	P	0 - 62
2444261	Azoxystrobin	7.43	Spike	P	0 - 39
2444261	Bromacil	7.05	Spike	P	0 - 33
2444261	Butylate	14.4	Spike	P	0 - 51

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P436398

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444261	Caffeine	9.89	Spike	P	0 - 100
2444261	Carbophenothion	2.22	Spike	P	0 - 34
2444261	Carfentrazone Ethyl	4.74	Spike	P	0 - 33
2444261	Chlorfenapyr	1.20	Spike	P	0 - 28
2444261	Chlorpyrifos Ethyl	10.6	Spike	P	0 - 31
2444261	Chlorpyrifos Methyl	3.48	Spike	P	0 - 27
2444261	Coumaphos	67.2	Spike	F	0 - 62
2444261	Cyanazine	11.9	Spike	P	0 - 48
2444261	Cyprodinil	3.03	Spike	P	0 - 29
2444261	Dechlorane 602	30.7	Spike	P	0 - 60
2444261	Dechlorane 603	10.9	Spike	P	0 - 40
2444261	Dechlorane Plus	0.619	Spike	P	0 - 38
2444261	Demeton	2.54	Spike	P	0 - 33
2444261	Diazinon	17.4	Spike	P	0 - 32
2444261	Difenoconazole	69.9	Spike	P	0 - 71
2444261	Dimethenamid	8.98	Spike	P	0 - 60
2444261	Dimethomorph	59.4	Spike	P	0 - 61
2444261	Disulfoton	1.11	Spike	P	0 - 30
2444261	Dithiopyr	5.88	Spike	P	0 - 28
2444261	EPTC	13.5	Spike	P	0 - 56
2444261	Ethion	37.0	Spike	P	0 - 79
2444261	Ethoprop	1.07	Spike	P	0 - 31
2444261	Etridiazole	56.7	Spike	F	0 - 43
2444261	Fenamiphos	11.1	Spike	P	0 - 43
2444261	Fenbuconazole	73.6	Spike	P	0 - 79
2444261	Fipronil	14.4	Spike	P	0 - 46
2444261	Fipronil Desulfinyl	13.9	Spike	P	0 - 36
2444261	Fipronil Sulfide	15.1	Spike	P	0 - 34
2444261	Fipronil Sulfone	6.13	Spike	P	0 - 47
2444261	Fluazifop-P-butyl	19.6	Spike	P	0 - 38
2444261	Fludioxonil	7.88	Spike	P	0 - 29
2444261	Flumioxazin	47.5	Spike	P	0 - 63
2444261	Flutolanil	8.53	Spike	P	0 - 36
2444261	Fluxapyroxad	0.155	Spike	P	0 - 65
2444261	Fonofos	9.17	Spike	P	0 - 35
2444261	Hexabromobenzene	11.1	Spike	P	0 - 41
2444261	Hexazinone	0.365	Spike	P	0 - 31
2444261	Imazalil	42.9	Spike	P	0 - 52
2444261	Iprodione	11.0	Spike	P	0 - 49
2444261	Loratadine	20.5	Spike	P	0 - 59
2444261	Malathion	2.78	Spike	P	0 - 77
2444261	Metalaxyl	12.8	Spike	P	0 - 76
2444261	Metolachlor	4.20	Spike	P	0 - 29
2444261	Metribuzin	16.4	Spike	P	0 - 51
2444261	Mevinphos	15.4	Spike	P	0 - 31
2444261	Molinate	8.23	Spike	P	0 - 39
2444261	Myclobutanil	16.4	Spike	P	0 - 34
2444261	Naled	32.1	Spike	P	0 - 37
2444261	Napropamide	23.8	Spike	P	0 - 100
2444261	Norflurazon	19.6	Spike	P	0 - 54
2444261	Octinoxate	7.88	Spike	P	0 - 35

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P436398

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444261	Oxadiazon	15.2	Spike	P	0 - 34
2444261	Oxybenzone	11.7	Spike	P	0 - 35
2444261	Oxyfluorfen	6.21	Spike	P	0 - 28
2444261	Parathion Ethyl	2.70	Spike	P	0 - 31
2444261	Parathion Methyl	4.88	Spike	P	0 - 29
2444261	PBB-153	29.0	Spike	P	0 - 49
2444261	PBDE-47	20.7	Spike	P	0 - 36
2444261	PBDE-99	30.8	Spike	P	0 - 46
2444261	Pendimethalin	1.39	Spike	P	0 - 31
2444261	Pentabromotoluene	9.50	Spike	P	0 - 16
2444261	Phenytoin	12.1	Spike	P	0 - 100
2444261	Phorate	19.6	Spike	P	0 - 36
2444261	Prodiamine	4.17	Spike	P	0 - 68
2444261	Prometon	9.87	Spike	P	0 - 35
2444261	Prometryn	0.802	Spike	P	0 - 33
2444261	Pronamide	11.4	Spike	P	0 - 24
2444261	Propanil	9.37	Spike	P	0 - 28
2444261	Propargite	19.2	Spike	P	0 - 53
2444261	Propiconazole	11.1	Spike	P	0 - 44
2444261	Pyraflufen Ethyl	10.3	Spike	P	0 - 61
2444261	Pyridaben	35.9	Spike	P	0 - 43
2444261	Pyriproxyfen	35.4	Spike	P	0 - 82
2444261	Simazine	7.23	Spike	P	0 - 29
2444261	Stiropfos	10.3	Spike	P	0 - 100
2444261	Sulfentrazone	20.0	Spike	P	0 - 64
2444261	Tebuconazole	39.6	Spike	P	0 - 76
2444261	Terbufos	5.98	Spike	P	0 - 29
2444261	Terbutylazine	17.1	Spike	P	0 - 28
2444261	Tetradecachloro-m-terphenyl	6.75	Spike	P	0 - 42
2444261	Thiobencarb	3.43	Spike	P	0 - 26
2444261	Tri-o-cresyl Phosphate	15.9	Spike	P	0 - 24
2444261	Triadimefon	18.2	Spike	P	0 - 40
2444261	Tris(1-chloro-2-propyl) phosphate (TCPP)	8.59	Spike	P	0 - 30
2444261	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	3.59	Spike	P	0 - 22
2444261	Tris(2-chloroethyl) phosphate (TCEP)	5.91	Spike	P	0 - 15

Reference Method: EPA 8270E

Batch ID: P436506

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444350	Aldrin	8.01	Spike	P	0 - 41
2444350	Alpha-BHC	3.54	Spike	P	0 - 25
2444350	Alpha-Chlordane	7.77	Spike	P	0 - 32
2444350	Beta-BHC	10.6	Spike	P	0 - 33
2444350	Beta-Cyfluthrin	25.8	Spike	P	0 - 43
2444350	Bifenthrin	1.14	Spike	P	0 - 52
2444350	Chlorothalonil	16.1	Spike	P	0 - 82
2444350	Cis-Nonachlor	1.14	Spike	P	0 - 33
2444350	Cypermethrin	9.85	Spike	P	0 - 51
2444350	Dacthal	13.0	Spike	P	0 - 27

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P436506

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444350	DDD-p,p'	12.9	Spike	P	0 - 39
2444350	DDE-p,p'	12.2	Spike	P	0 - 31
2444350	DDT-p,p'	11.5	Spike	P	0 - 29
2444350	Delta-BHC	12.1	Spike	P	0 - 35
2444350	Deltamethrin	7.75	Spike	P	0 - 100
2444350	Dichlobenil	23.6	Spike	P	0 - 40
2444350	Dicofol	8.11	Spike	P	0 - 37
2444350	Dieldrin	4.72	Spike	P	0 - 27
2444350	Endosulfan I	2.06	Spike	P	0 - 23
2444350	Endosulfan II	1.90	Spike	P	0 - 34
2444350	Endosulfan Sulfate	24.4	Spike	P	0 - 36
2444350	Endrin	23.0	Spike	P	0 - 45
2444350	Endrin Aldehyde	10.8	Spike	P	0 - 76
2444350	Endrin Ketone	6.45	Spike	P	0 - 43
2444350	Esfenvalerate	12.5	Spike	P	0 - 51
2444350	Ethalfuralin	4.23	Spike	P	0 - 22
2444350	Fenpropathrin	10.0	Spike	P	0 - 49
2444350	Gamma-BHC	5.88	Spike	P	0 - 28
2444350	Gamma-Chlordane	10.5	Spike	P	0 - 40
2444350	Heptachlor	19.6	Spike	P	0 - 29
2444350	Heptachlor Epoxide	9.70	Spike	P	0 - 33
2444350	Hexachlorobenzene	13.4	Spike	P	0 - 36
2444350	Kepone	16.9	Spike	P	0 - 85
2444350	Lambda-Cyhalothrin	2.58	Spike	P	0 - 55
2444350	Methoprene	15.2	Spike	P	0 - 53
2444350	Methoxychlor	3.76	Spike	P	0 - 50
2444350	MGK-264	5.33	Spike	P	0 - 43
2444350	Mirex	6.29	Spike	P	0 - 40
2444350	Oxychlordane	5.67	Spike	P	0 - 31
2444350	Permethrin	3.25	Spike	P	0 - 50
2444350	Phenothrin	2.78	Spike	P	0 - 58
2444350	Piperonyl Butoxide	0.129	Spike	P	0 - 100
2444350	Prallethrin	17.8	Spike	P	0 - 39
2444350	Tau-Fluvalinate	9.66	Spike	P	0 - 54
2444350	Tetramethrin	6.64	Spike	P	0 - 51
2444350	Trans-Nonachlor	13.5	Spike	P	0 - 39
2444350	Triclosan Methyl	3.25	Spike	P	0 - 31
2444350	Trifluralin	2.97	Spike	P	0 - 22
2444518	PCB-1016	6.00	Spike	P	0 - 25
2444518	PCB-1260	2.53	Spike	P	0 - 30

Reference Method: EPA 8276

Batch ID: P436506

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444518	Chlordane	18.2	Spike	P	0 - 28
2444518	Toxaphene	22.4	Spike	P	0 - 27

Quality Assurance Report

Precision

Reference Method: EPA 8321B

Batch ID: P436253

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444338	Acesulfame K	3.69	Spike	P	0 - 30
2444338	AMPA	0.985	Spike	P	0 - 30
2444338	Endothall	3.51	Spike	P	0 - 30
2444338	Glufosinate	3.84	Spike	P	0 - 30
2444338	Glyphosate	5.36	Spike	P	0 - 30
2444338	Sucralose	0.0789	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P436330

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444339	Acesulfame K	2.92	Spike	P	0 - 30
2444339	AMPA	10.3	Spike	P	0 - 30
2444339	Endothall	2.11	Spike	P	0 - 30
2444339	Glufosinate	6.16	Spike	P	0 - 30
2444339	Glyphosate	0.344	Spike	P	0 - 30
2444339	Sucralose	6.82	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P436414

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444259	2,4-D	8.17	Spike	P	0 - 30
2444259	2,4,5-T	10.2	Spike	P	0 - 30
2444259	Acetaminophen	6.31	Spike	P	0 - 30
2444259	Acetamiprid	2.26	Spike	P	0 - 30
2444259	Afidopyropen	0.474	Spike	P	0 - 30
2444259	Bentazon	1.90	Spike	P	0 - 30
2444259	Benzovindiflupyr	7.81	Spike	P	0 - 30
2444259	Carbamazepine	4.61	Spike	P	0 - 30
2444259	Clothianidin	6.45	Spike	P	0 - 30
2444259	Dinotefuran	4.50	Spike	P	0 - 30
2444259	Diuron	0.355	Spike	P	0 - 30
2444259	Fenuron	6.92	Spike	P	0 - 30
2444259	Fluridone	3.98	Spike	P	0 - 30
2444259	Hydrocodone	5.79	Spike	P	0 - 30
2444259	Ibuprofen	3.24	Spike	P	0 - 30
2444259	Imazapyr	8.50	Spike	P	0 - 30
2444259	Imidacloprid	3.61	Spike	P	0 - 30
2444259	Linuron	8.77	Spike	P	0 - 30
2444259	Mandestrobin	9.89	Spike	P	0 - 30
2444259	MCPP	6.19	Spike	P	0 - 30
2444259	Naproxen	13.4	Spike	P	0 - 30
2444259	Primidone	12.4	Spike	P	0 - 30
2444259	Pyraclostrobin	0.377	Spike	P	0 - 30
2444259	Silvex	13.8	Spike	P	0 - 30
2444259	Thiamethoxam	4.34	Spike	P	0 - 30
2444259	Tolfenpyrad	5.24	Spike	P	0 - 30
2444259	Triclopyr	7.65	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P436471

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444258	3-Hydroxycarbofuran	15.9	Spike	P	0 - 30
2444258	Aldicarb	6.79	Spike	P	0 - 30
2444258	Aldicarb Sulfone	8.13	Spike	P	0 - 30
2444258	Aldicarb Sulfoxide	4.13	Spike	P	0 - 30
2444258	Carbaryl	8.03	Spike	P	0 - 30
2444258	Carbofuran	8.65	Spike	P	0 - 30
2444258	Methiocarb	11.1	Spike	P	0 - 30
2444258	Methomyl	12.6	Spike	P	0 - 30
2444258	Oxamyl	9.95	Spike	P	0 - 30
2444258	Propoxur	8.16	Spike	P	0 - 30

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

Quality Assurance Report Surrogates

Lab Sample ID: 2444338
Field Sample ID: G2CE0247

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	111	P	30 - 160
EPA 8321B	Acetaminophen-d4	100	P	30 - 160
EPA 8321B	Carbamazepine-d10	45.9	P	30 - 160
EPA 8321B	Diuron-d6	39.1	P	30 - 160
EPA 8321B	Endothall-d6	119	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	73.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	71.2	P	30 - 160
EPA 8321B	Primidone-d5	50.0	P	30 - 160
EPA 8321B	Sucralose-d6	106	P	30 - 160

Lab Sample ID: 2444339
Field Sample ID: G2CE0241

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	97.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	78.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	43.9	P	30 - 160
EPA 8321B	Diuron-d6	32.8	P	30 - 160
EPA 8321B	Endothall-d6	119	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	101	P	30 - 160
EPA 8321B	Ibuprofen-d3	70.1	P	30 - 160
EPA 8321B	Primidone-d5	48.2	P	30 - 160
EPA 8321B	Sucralose-d6	97.9	P	30 - 160

Lab Sample ID: 2444340
Field Sample ID: G2CE0233

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	103	P	30 - 160
EPA 8321B	Acetaminophen-d4	87.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	43.1	P	30 - 160
EPA 8321B	Diuron-d6	39.4	P	30 - 160
EPA 8321B	Endothall-d6	114	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	109	P	30 - 160
EPA 8321B	Ibuprofen-d3	65.8	P	30 - 160
EPA 8321B	Primidone-d5	57.7	P	30 - 160
EPA 8321B	Sucralose-d6	122	P	30 - 160

Lab Sample ID: 2444341
Field Sample ID: G2CE0120

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	32.9	P	30 - 160

Lab Sample ID: 2444342
Field Sample ID: G2CE0120

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	102	P	30 - 160
EPA 8321B	Acetaminophen-d4	92.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	46.7	P	30 - 160
EPA 8321B	Diuron-d6	40.0	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2444342
Field Sample ID: G2CE0120

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Endothall-d6	122	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	57.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	71.2	P	30 - 160
EPA 8321B	Primidone-d5	54.2	P	30 - 160
EPA 8321B	Sucralose-d6	109	P	30 - 160

Lab Sample ID: 2444350
Field Sample ID: G2CE0120

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	108	P	37 - 129
EPA 8270E	Decachlorobiphenyl	73.5	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	81.7	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	64.2	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	84.5	P	28 - 102
EPA 8276	PCNB	83.5	P	49 - 115

Lab Sample ID: 2444351
Field Sample ID: G2CE0120

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	72.9	P	20 - 200
EPA 8270E	Simazine-d10	104	P	58 - 137
EPA 8270E	Terbufos-d10	92.9	P	50 - 134
EPA 8270E	Terphenyl-d14	89.8	P	44 - 134

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A122058
Included Lab Sample IDs: 2444338

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	92.2	117	P/P	60 - 160
Sucralose	121	129	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A122059
Included Lab Sample IDs: 2444338

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	95.6	70.7	P/P	60 - 160
Endothall	110	107	P/P	60 - 160
Glufosinate	100	98.3	P/P	60 - 160
Glyphosate	109	105	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A122173
Included Lab Sample IDs: 2444338, 2444339, 2444340, 2444342

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	86.0	86.2	P/P	50 - 150
2,4,5-T	87.0	88.4	P/P	50 - 150
3-Hydroxycarbofuran	110	114	P/P	60 - 150
Acetaminophen	109	115	P/P	60 - 160
Acetamiprid	106	103	P/P	50 - 150
Afidopyropen	112	101	P/P	50 - 150
Aldicarb	112	113	P/P	60 - 150
Aldicarb Sulfone	106	103	P/P	50 - 150
Aldicarb Sulfoxide	110	106	P/P	50 - 150
Bentazon	109	101	P/P	50 - 160
Bentazon	117	108	P/P	50 - 160
Benzovindiflupyr	131	108	P/P	50 - 150
Carbamazepine	99.9	103	P/P	60 - 150
Carbaryl	105	103	P/P	60 - 150
Carbofuran	91.7	98.3	P/P	50 - 150
Clothianidin	104	106	P/P	60 - 150
Dinotefuran	106	110	P/P	50 - 150
Diuron	109	110	P/P	60 - 160
Fenuron	109	104	P/P	60 - 150
Fluridone	104	99.5	P/P	60 - 160
Hydrocodone	101	106	P/P	60 - 150
Ibuprofen	93.9	83.4	P/P	50 - 160
Imazapyr	84.5	83.6	P/P	50 - 150
Imidacloprid	96.8	93.4	P/P	60 - 150
Linuron	103	103	P/P	60 - 150
Mandestrobin	110	104	P/P	50 - 150
MCPP	92.3	82.6	P/P	50 - 150
Methiocarb	105	104	P/P	50 - 150
Methomyl	107	103	P/P	50 - 150
Naproxen	101	102	P/P	50 - 160
Oxamyl	107	112	P/P	50 - 150
Primidone	98.4	98.5	P/P	60 - 150
Propoxur	116	122	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A122173

Included Lab Sample IDs: 2444338, 2444339, 2444340, 2444342

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraclostrobin	116	106	P/P	60 - 150
Silvex	84.4	98.1	P/P	50 - 150
Thiamethoxam	104	102	P/P	50 - 150
Tolfenpyrad	128	115	P/P	60 - 150
Triclopyr	76.7	85.9	P/P	50 - 150

Reference Method: EPA 8321B

Run ID: A122179

Included Lab Sample IDs: 2444339, 2444340, 2444342

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	100	109	P/P	60 - 160
Acesulfame K	119	120	P/P	60 - 160
Sucralose	111	111	P/P	60 - 160
Sucralose	98.8	103	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A122180

Included Lab Sample IDs: 2444339, 2444340, 2444342

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	98.0	92.5	P/P	60 - 160
Endothall	86.1	92.0	P/P	60 - 160
Glufosinate	100	107	P/P	60 - 160
Glyphosate	80.9	92.7	P/P	60 - 160

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A122183

Included Lab Sample IDs: 2444352, 2444353, 2444354, 2444355

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.4	99.6	P/P	90 - 110
Aluminum	99.0	98.4	P/P	90 - 110
Antimony	101	100	P/P	90 - 110
Antimony	99.5	101	P/P	90 - 110
Arsenic	93.6	94.4	P/P	90 - 110
Arsenic	95.5	93.6	P/P	90 - 110
Barium	99.0	99.0	P/P	90 - 110
Barium	99.0	98.9	P/P	90 - 110
Beryllium	95.2	95.6	P/P	90 - 110
Beryllium	95.8	95.2	P/P	90 - 110
Boron	104	104	P/P	90 - 110
Boron	105	104	P/P	90 - 110
Cadmium	102	103	P/P	90 - 110
Cadmium	103	103	P/P	90 - 110
Chromium	105	107	P/P	90 - 110
Chromium	106	105	P/P	90 - 110
Cobalt	94.5	95.5	P/P	90 - 110
Cobalt	96.8	94.5	P/P	90 - 110
Copper	91.3	91.9	P/P	90 - 110
Copper	93.6	91.3	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A122183

Included Lab Sample IDs: 2444352, 2444353, 2444354, 2444355

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Lead	94.8	94.4	P/P	90 - 110
Lead	94.8	94.8	P/P	90 - 110
Manganese	103	106	P/P	90 - 110
Manganese	103	103	P/P	90 - 110
Molybdenum	98.3	98.2	P/P	90 - 110
Molybdenum	98.6	98.3	P/P	90 - 110
Nickel	92.1	92.3	P/P	90 - 110
Nickel	94.6	92.1	P/P	90 - 110
Selenium	97.6	97.6	P/P	90 - 110
Selenium	97.8	97.6	P/P	90 - 110
Silver	102	101	P/P	90 - 110
Silver	102	102	P/P	90 - 110
Thallium	98.3	98.8	P/P	90 - 110
Thallium	98.8	98.0	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A122190

Included Lab Sample IDs: 2444352, 2444353, 2444354, 2444355

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	100	99.5	P/P	90 - 110
Iron	101	100	P/P	90 - 110
Magnesium	101	99.8	P/P	90 - 110
Potassium	97.8	95.4	P/P	90 - 110
Sodium	96.5	92.9	P/P	90 - 110
Strontium	103	102	P/P	90 - 110
Tin	105	105	P/P	90 - 110
Titanium	104	104	P/P	90 - 110
Vanadium	103	103	P/P	90 - 110
Zinc	106	105	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A122283

Included Lab Sample IDs: 2444351

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	94.1		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	89.1		P	80 - 120
Avobenzone	92.4		P	80 - 120
Dechlorane 602	96.4		P	80 - 120
Dechlorane 603	96.5		P	80 - 120
Dechlorane Plus	93.4		P	80 - 120
Hexabromobenzene	90.2		P	80 - 120
Octinoxate	88.9		P	80 - 120
Oxybenzone	94.1		P	80 - 120
PBB-153	89.9		P	80 - 120
PBDE-47	90.4		P	80 - 120
PBDE-99	86.4		P	80 - 120
Pentabromotoluene	100		P	80 - 120
Tetradecachloro-m-terphenyl	89.7		P	80 - 120
Tri-o-cresyl Phosphate	92.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122283
Included Lab Sample IDs: 2444351

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tris(1-chloro-2-propyl) phosphate (TCPP)	94.4		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	103		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	101		P	80 - 120

Reference Method: EPA 8270E
Run ID: A122303
Included Lab Sample IDs: 2444350

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	96.5		P	80 - 120
Alpha-BHC	99.5		P	80 - 120
Alpha-Chlordane	99.9		P	80 - 120
Beta-BHC	108		P	80 - 120
Beta-Cyfluthrin	95.8		P	80 - 120
Bifenthrin	89.6		P	80 - 120
Chlorothalonil	84.0		P	80 - 120
Cis-Nonachlor	101		P	80 - 120
Cypermethrin	90.9		P	80 - 120
Dacthal	93.3		P	80 - 120
DDD-p,p'	104		P	80 - 120
DDE-p,p'	103		P	80 - 120
DDT-p,p'	92.8		P	80 - 120
Delta-BHC	91.5		P	80 - 120
Deltamethrin	89.5		P	80 - 120
Dichlobenil	101		P	80 - 120
Dicofol	100		P	80 - 120
Dieldrin	94.5		P	80 - 120
Endosulfan I	93.2		P	80 - 120
Endosulfan II	89.6		P	80 - 120
Endosulfan Sulfate	90.6		P	80 - 120
Endrin	102		P	80 - 120
Endrin Aldehyde	101		P	80 - 120
Endrin Ketone	84.8		P	80 - 120
Esfenvalerate	88.7		P	80 - 120
Ethalfuralin	100		P	80 - 120
Fenpropathrin	96.3		P	80 - 120
Gamma-BHC	97.2		P	80 - 120
Gamma-Chlordane	108		P	80 - 120
Heptachlor	91.5		P	80 - 120
Heptachlor Epoxide	94.3		P	80 - 120
Hexachlorobenzene	96.0		P	80 - 120
Kepone	57.6*		F	80 - 120
Lambda-Cyhalothrin	92.5		P	80 - 120
Methoprene	97.7		P	80 - 120
Methoxychlor	91.6		P	80 - 120
MGK-264	96.7		P	80 - 120
Mirex	95.5		P	80 - 120
Oxychlordane	99.9		P	80 - 120
Permethrin	86.0		P	80 - 120
Phenothrin	86.9		P	80 - 120
Piperonyl Butoxide	84.7		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122303
Included Lab Sample IDs: 2444350

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Prallethrin	96.3		P	80 - 120
Tau-Fluvalinate	86.4		P	80 - 120
Tetramethrin	86.6		P	80 - 120
Trans-Nonachlor	102		P	80 - 120
Triclosan Methyl	95.7		P	80 - 120
Trifluralin	101		P	80 - 120

Reference Method: EPA 8276
Run ID: A122315
Included Lab Sample IDs: 2444350

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

Reference Method: EPA 8270E
Run ID: A122376
Included Lab Sample IDs: 2444350

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	100		P	80 - 120
PCB-1260	98.5		P	80 - 120

Reference Method: EPA 8270E
Run ID: A122457
Included Lab Sample IDs: 2444351

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	92.5		P	80 - 120
Alachlor	95.5		P	80 - 120
Ametryn	105		P	80 - 120
Atrazine	115		P	80 - 120
Atrazine Desethyl	102		P	80 - 120
Azinphos Methyl	105		P	80 - 120
Azoxystrobin	95.8		P	80 - 120
Bromacil	96.9		P	80 - 120
Butylate	102		P	80 - 120
Caffeine	110		P	80 - 120
Carbophenothion	109		P	80 - 120
Carfentrazone Ethyl	109		P	80 - 120
Chlorfenapyr	86.9		P	80 - 120
Chlorpyrifos Ethyl	89.2		P	80 - 120
Chlorpyrifos Methyl	105		P	80 - 120
Coumaphos	108		P	80 - 120
Cyanazine	100		P	80 - 120
Cyprodinil	102		P	80 - 120
Demeton	112		P	80 - 120
Diazinon	108		P	80 - 120
Difenoconazole	96.4		P	80 - 120
Dimethenamid	113		P	80 - 120
Dimethomorph	107		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122457
Included Lab Sample IDs: 2444351

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Disulfoton	103		P	80 - 120
Dithiopyr	110		P	80 - 120
EPTC	98.4		P	80 - 120
Ethion	92.0		P	80 - 120
Ethoprop	62.2*		F	80 - 120
Etridiazole	103		P	80 - 120
Fenamiphos	90.6		P	80 - 120
Fenbuconazole	96.6		P	80 - 120
Fipronil	93.0		P	80 - 120
Fipronil Desulfinyl	102		P	80 - 120
Fipronil Sulfide	104		P	80 - 120
Fipronil Sulfone	104		P	80 - 120
Fluazifop-P-butyl	98.6		P	80 - 120
Fludioxonil	100		P	80 - 120
Flumioxazin	115		P	80 - 120
Flutolanil	102		P	80 - 120
Fluxapyroxad	77.2*		F	80 - 120
Fonofos	90.2		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	115		P	80 - 120
Iprodione	90.1		P	80 - 120
Loratadine	95.0		P	80 - 120
Malathion	87.0		P	80 - 120
Metalaxyl	93.3		P	80 - 120
Metolachlor	98.8		P	80 - 120
Metribuzin	92.1		P	80 - 120
Mevinphos	86.1		P	80 - 120
Molinate	87.4		P	80 - 120
Myclobutanil	94.7		P	80 - 120
Naled	107		P	80 - 120
Napropamide	114		P	80 - 120
Norflurazon	117		P	80 - 120
Oxadiazon	105		P	80 - 120
Oxyfluorfen	112		P	80 - 120
Parathion Ethyl	97.7		P	80 - 120
Parathion Methyl	96.3		P	80 - 120
Pendimethalin	104		P	80 - 120
Phenytol	95.7		P	80 - 120
Phorate	97.7		P	80 - 120
Prodiamine	101		P	80 - 120
Prometon	99.4		P	80 - 120
Prometryn	98.6		P	80 - 120
Pronamide	108		P	80 - 120
Propanil	95.4		P	80 - 120
Propargite	103		P	80 - 120
Propiconazole	101		P	80 - 120
Pyraflufen Ethyl	104		P	80 - 120
Pyridaben	104		P	80 - 120
Pyriproxyfen	108		P	80 - 120
Simazine	90.1		P	80 - 120
Stirophos	92.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122457
Included Lab Sample IDs: 2444351

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfentrazone	94.7		P	80 - 120
Tebuconazole	109		P	80 - 120
Terbufos	85.1		P	80 - 120
Terbuthylazine	93.4		P	80 - 120
Thiobencarb	109		P	80 - 120
Triadimefon	113		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			Precision	MS
			LCS	SMP			
EPA 200.7 Rev. 4.4	Calcium	101	103	101			1.98
	Iron	105	104	105	103		0.778
	Magnesium	107	105	107	103		1.62
	Potassium	98.0	98.3	103	106		3.05
	Sodium	100	100	106	98.9		2.99
	Strontium	101	101	103	102		1.67
	Tin	106	102	102	104		0.489
	Titanium	101	104	104	104		0.0434
	Vanadium	103	103	104	103		0.317
	Zinc	105	104	105	106		1.32
EPA 200.8 Rev. 5.4	Aluminum	95.6	97.4	97.4	97.9		0.0135
	Antimony	96.1	100	103	103		2.45
	Arsenic	96.7	97.5	98.2	96.9		0.701
	Barium	99.1	102	104	102		1.26
	Beryllium	93.0	94.2	94.5	93.8		0.390
	Boron	98.2	107	107	109		0.173
	Cadmium	98.4	103	103	102		0.0364
	Chromium	96.1	102	101	104		0.563
	Cobalt	96.4	95.9	95.6	95.0		0.299
	Copper	94.7	93.3	93.0	90.7		0.313
	Lead	92.8	95.2	96.4	95.4		1.32
	Manganese	96.0	100	103	103		1.15
	Molybdenum	95.8	102	102	100		0.0603
	Nickel	95.2	92.6	92.1	91.8		0.468
	Selenium	95.2	94.3	94.3	91.6		0.0270
	Silver	107	108	109	110		1.22
	Thallium	98.0	103	104	102		1.38
	2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntylphenol (UV-328)	78.0	77.4	97.3			22.8
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	47.9	89.4	114			24.3
EPA 8270E	Acetochlor	80.3	97.1	98.2			1.09
	Alachlor	67.8	76.0	81.8			7.38
	Aldrin	86.2	72.2	66.7			8.01
	Alpha-BHC	94.6	85.6	88.6			3.54
	Alpha-Chlordane	96.3	63.4	68.5			7.77
	Ametryn	154	123	146			16.7
	Atrazine	88.1					2.86
	Atrazine Desethyl	82.4	77.8	102			24.0
	Avobenzone	108	98.9	143			36.3
	Azinphos Methyl	61.6	57.7	90.7			44.5
	Azoxystrobin	77.8	98.2	106			7.43
	Beta-BHC	95.7	86.8	96.6			10.6
	Beta-Cyfluthrin	100	126	164			25.8
	Bifenthrin	96.8	109	108			1.14
	Bromacil	102	104	112			7.05
	Butylate	71.4	77.4	67.0			14.4
	Caffeine	137	87.2	96.2			9.89
	Carbophenothion	91.2	96.8	99.0			2.22
	Carfentrazone Ethyl	101	99.7	95.1			4.74
	Chlorfenapyr	81.1	63.6	64.4			1.20
	Chlorothalonil	71.5	113	133			16.1
	Chlorpyrifos Ethyl	94.7	120	108			10.6

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Chlorpyrifos Methyl	118	123	128		3.48
	Cis-Nonachlor	97.2	64.1	63.4		1.14
	Coumaphos	104	63.0	127		67.2
	Cyanazine	213	128	113		11.9
	Cypermethrin	93.0	119	131		9.85
	Cyprodinil	133	112	115		3.03
	Dacthal	94.2	79.5	69.8		13.0
	DDD-p,p'	89.7	75.6	66.5		12.9
	DDE-p,p'	98.5	73.9	65.4		12.2
	DDT-p,p'	99.9	130	116		11.5
	Dechlorane 602	51.5	53.6	73.0		30.7
	Dechlorane 603	107	94.1	105		10.9
	Dechlorane Plus	97.3	81.2	80.7		0.619
	Delta-BHC	80.6	101	114		12.1
	Deltamethrin	92.3	182	197		7.75
	Demeton	96.9	80.1	78.1		2.54
	Diazinon	129	137	115		17.4
	Dichlobenil	85.7	46.2	58.5		23.6
	Dicofol	96.6	92.3	85.1		8.11
	Dieldrin	97.9	83.7	79.9		4.72
	Difenoconazole	39.1	43.6	90.5		69.9
	Dimethenamid	64.0	77.7	85.0		8.98
	Dimethomorph	167	138	255		59.4
	Disulfoton	90.2	115	113		1.11
	Dithiopyr	78.3	60.6	57.2		5.88
	Endosulfan I	90.1	87.8	89.6		2.06
	Endosulfan II	82.8	66.1	67.4		1.90
	Endosulfan Sulfate	83.7	46.2	59.0		24.4
	Endrin	103	73.5	58.3		23.0
	Endrin Aldehyde	87.9	37.1	41.3		10.8
	Endrin Ketone	104	76.9	82.0		6.45
	EPTC	68.5	70.2	61.3		13.5
	Esfenvalerate	99.7	145	165		12.5
	Ethalfuralin	92.6	83.8	80.3		4.23
	Ethion	46.8	52.9	76.9		37.0
	Ethoprop	102	99.5	98.4		1.07
	Etridiazole	66.4	65.2	36.4		56.7
	Fenamiphos	92.1	115	129		11.1
	Fenbuconazole	44.4	36.4	78.9		73.6
	Fenpropathrin	98.4	109	98.6		10.0
	Fipronil	119	87.8	101		14.4
	Fipronil Desulfinyl	74.5	95.3	110		13.9
	Fipronil Sulfide	85.2	90.0	105		15.1
	Fipronil Sulfone	95.8	78.0	73.3		6.13
	Fluazifop-P-butyl	140	136	112		19.6
	Fludioxonil	82.1	80.6	74.5		7.88
	Flumioxazin	42.9	71.8	117		47.5
	Flutolanil	104	69.3	75.5		8.53
	Fluxapyroxad	29.8	46.4	46.3		0.155
	Fonofos	101	103	94.1		9.17
	Gamma-BHC	108	113	107		5.88
	Gamma-Chlordane	101	84.3	93.6		10.5
	Heptachlor	85.5	102	84.1		19.6
	Heptachlor Epoxide	97.6	95.4	86.6		9.70

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Hexabromobenzene	81.7	102	114		11.1
	Hexachlorobenzene	84.1	63.4	72.5		13.4
	Hexazinone	92.7				0.365
	Imazalil	81.2	43.5	67.2		42.9
	Iprodione	118	83.2	92.8		11.0
	Kepone	28.8	22.0	26.0		16.9
	Lambda-Cyhalothrin	97.4	130	133		2.58
	Loratadine	134	208	169		20.5
	Malathion	111	93.6	91.1		2.78
	Metalaxyl	74.9	76.5	90.4		12.8
	Methoprene	97.9	85.6	73.6		15.2
	Methoxychlor	92.9	97.6	101		3.76
	Metolachlor	113	88.4	92.2		4.20
	Metribuzin	42.2	73.2	62.1		16.4
	Mevinphos	94.9	89.4	104		15.4
	MGK-264	103	84.9	80.5		5.33
	Mirex	89.1	75.7	80.7		6.29
	Molinate	79.7	67.0	61.7		8.23
	Myclobutanil	81.3	78.3	92.3		16.4
	Naled	33.4	59.2	81.9		32.1
	Napropamide	74.3	66.5	84.4		23.8
	Norflurazon	52.3	69.8	84.9		19.6
	Octinoxate	123	107	116		7.88
	Oxadiazon	71.5	75.2	87.5		15.2
	Oxybenzone	115	110	124		11.7
	Oxychlordane	95.2	84.5	89.4		5.67
	Oxyfluorfen	113	111	118		6.21
	Parathion Ethyl	110	97.5	100		2.70
	Parathion Methyl	96.7	142	149		4.88
	PBB-153	61.4	98.3	132		29.0
	PBDE-47	73.7	82.0	101		20.7
	PBDE-99	54.3	70.9	96.7		30.8
	PCB-1016	109	84.6	79.7		6.00
	PCB-1260	130	87.0	84.8		2.53
	Pendimethalin	112	117	119		1.39
	Pentabromotoluene	93.6	92.6	102		9.50
	Permethrin	92.1	116	113		3.25
	Phenothrin	94.9	116	119		2.78
	Phenytoin	32.9	50.5	57.0		12.1
	Phorate	96.8	112	91.9		19.6
	Piperonyl Butoxide	108	120	120		0.129
	Prallethrin	96.6	68.7	57.5		17.8
	Prodimamine	34.9	60.6	63.2		4.17
	Prometon	113	118	130		9.87
	Prometryn	126	108	107		0.802
	Pronamide	108	112	125		11.4
	Propanil	103	100	110		9.37
	Propargite	48.9	56.0	67.9		19.2
	Propiconazole	64.1	66.7	74.6		11.1
	Pyraflufen Ethyl	70.1	79.3	87.9		10.3
	Pyridaben	84.6	33.4	79.3		35.9
	Pyriproxyfen	50.1	63.5	90.8		35.4
	Simazine	84.3				7.23
	Stirophos	28.4	23.6	21.3		10.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Sulfentrazone	23.2	46.3	56.6			20.0
	Tau-Fluvalinate	92.9	139	154			9.66
	Tebuconazole	43.8	41.2	61.6			39.6
	Terbufos	113	106	100			5.98
	Terbutylazine	94.5	83.2	98.8			17.1
	Tetradecachloro-m-terphenyl	149	146	137			6.75
	Tetramethrin	99.0	119	127			6.64
	Thiobencarb	82.0	87.9	90.9			3.43
	Trans-Nonachlor	102	78.9	68.9			13.5
	Tri-o-cresyl Phosphate	107	100	118			15.9
	Triadimefon	83.3	57.1	75.3			18.2
	Triclosan Methyl	92.2	69.6	71.9			3.25
	Trifluralin	95.4	80.2	77.9			2.97
	Tris(1-chloro-2-propyl) phosphate (TCPP)	127	111	121			8.59
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	93.7	92.9	96.3			3.59
	Tris(2-chloroethyl) phosphate (TCEP)	104	106	113			5.91
EPA 8276	Chlordane	101	86.3	71.9			18.2
	Toxaphene	106	103	81.9			22.4
EPA 8321B	2,4-D	62.9	91.3	99.7			8.17
	2,4,5-T	68.5	93.9	104			10.2
	3-Hydroxycarbofuran	94.5	37.7	44.2			15.9
	Acesulfame K	95.4	108	112			3.69
	Acesulfame K	101	131	135			2.92
	Acetaminophen	81.1	75.7	80.7			6.31
	Acetamiprid	81.1	50.9	52.1			2.26
	Afidopyropen	69.5	70.5	70.9			0.474
	Aldicarb	70.1	30.5	32.7			6.79
	Aldicarb Sulfone	103	45.9	49.7			8.13
	Aldicarb Sulfoxide	111	16.6	17.3			4.13
	AMPA	72.8	71.4	70.7			0.985
	AMPA	85.5	86.2	96.9			10.3
	Bentazon	94.8	86.7	85.1			1.90
	Benzovindiflupyr	93.1	80.1	86.6			7.81
	Carbamazepine	71.3	43.1	45.1			4.61
	Carbaryl	72.4	37.6	40.8			8.03
	Carbofuran	79.6	31.4	34.3			8.65
	Clothianidin	81.9	54.9	58.6			6.45
	Dinotefuran	92.7	57.3	59.9			4.50
	Diuron	69.1	42.3	42.5			0.355
	Endothall	94.3	110	106			3.51
	Endothall	97.0	119	122			2.11
	Fenuron	87.5	33.2	35.6			6.92
	Fluridone	74.2	51.7	54.2			3.98
	Glufosinate	103	98.5	94.8			3.84
	Glufosinate	91.6	92.1	86.6			6.16
	Glyphosate	94.2	79.2	75.1			5.36
	Glyphosate	86.8	103	102			0.344
	Hydrocodone	84.3	54.7	58.0			5.79
	Ibuprofen	65.7	51.8	50.1			3.24
	Imazapyr	73.9	82.3	73.0			8.50
	Imidacloprid	79.2	76.8	79.7			3.61

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Linuron	58.0	54.2	49.7		8.77
	Mandestrobin	80.1	66.5	73.4		9.89
	MCP	77.9	107	114		6.19
	Methiocarb	62.8	44.4	49.7		11.1
	Methomyl	88.1	32.9	37.3		12.6
	Naproxen	62.6	171	149		13.4
	Oxamyl	97.2	43.3	47.9		9.95
	Primidone	76.1	57.9	51.1		12.4
	Propoxur	79.0	30.9	33.5		8.16
	Pyraclostrobin	70.4	79.4	79.7		0.377
	Silvex	68.5	93.3	107		13.8
	Sucralose	124	129	129		0.0789
	Sucralose	105	98.2	110		6.82
	Thiamethoxam	77.1	63.8	66.6		4.34
	Tolfenpyrad	54.5	58.7	61.9		5.24
	Triclopyr	69.6	97.9	106		7.65

Reference Method Descriptions

Method	Description	Associated Samples
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2444352, 2444353, 2444354, 2444355
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2444352, 2444353, 2444354, 2444355
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2444351
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2444350
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2444351
EPA 8270E	PCBs in water matrices by GC/MS/MS	2444350
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2444350
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2444341
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2444338, 2444339, 2444340, 2444342
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2444352, 2444353, 2444354, 2444355

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 200.7 Rev. 4.4	10/11/2023	10/12/2023 11:50	George D Taylor	10/16/2023 20:15	McKinley C Carter	2444352
	10/11/2023	10/12/2023 11:50	George D Taylor	10/16/2023 20:23	McKinley C Carter	2444353
	10/11/2023	10/12/2023 11:50	George D Taylor	10/16/2023 20:30	McKinley C Carter	2444354
	10/11/2023	10/12/2023 11:50	George D Taylor	10/16/2023 20:38	McKinley C Carter	2444355
	10/11/2023	10/12/2023 11:50	George D Taylor	10/16/2023 20:46	McKinley C Carter	2444355
EPA 200.8 Rev. 5.4	10/11/2023	10/12/2023 11:50	George D Taylor	10/16/2023 17:49	Conrad Hartmann	2444352
	10/11/2023	10/12/2023 11:50	George D Taylor	10/16/2023 18:47	Conrad Hartmann	2444353
	10/11/2023	10/12/2023 11:50	George D Taylor	10/16/2023 18:57	Conrad Hartmann	2444354
	10/11/2023	10/12/2023 11:50	George D Taylor	10/16/2023 19:06	Conrad Hartmann	2444355
EPA 8270E	10/11/2023	10/16/2023 08:00	Fe-Val Siddell	10/20/2023 18:26	Arthur Maknenko	2444351
	10/11/2023	10/16/2023 08:00	Fe-Val Siddell	10/23/2023 17:19	Vandana T. Nagar	2444351
	10/11/2023	10/16/2023 08:30	Rasheda Ghaffari	10/21/2023 01:12	Lipi Saha	2444350
	10/11/2023	10/16/2023 08:30	Rasheda Ghaffari	10/22/2023 23:02	Julie Wi	2444350
EPA 8276	10/11/2023	10/16/2023 08:30	Rasheda Ghaffari	10/23/2023 14:54	Arthur Maknenko	2444350
EPA 8321B	10/11/2023	10/11/2023 13:00	Hana Lee	10/11/2023 14:36	Tae K Lee	2444338
	10/11/2023	10/11/2023 13:00	Hana Lee	10/12/2023 16:13	Tae K Lee	2444338
	10/11/2023	10/13/2023 09:00	Hoor Shaik	10/14/2023 05:03	Juyoung Kim	2444338
	10/11/2023	10/13/2023 09:00	Hoor Shaik	10/14/2023 05:20	Juyoung Kim	2444339
	10/11/2023	10/13/2023 09:00	Hoor Shaik	10/14/2023 05:38	Juyoung Kim	2444340
	10/11/2023	10/13/2023 09:00	Hoor Shaik	10/14/2023 05:56	Juyoung Kim	2444342
	10/11/2023	10/13/2023 09:00	Hoor Shaik	10/14/2023 11:17	Juyoung Kim	2444341
	10/11/2023	10/13/2023 09:00	Hoor Shaik	10/16/2023 13:27	Juyoung Kim	2444339
	10/11/2023	10/13/2023 09:00	Hoor Shaik	10/16/2023 13:45	Juyoung Kim	2444340
	10/11/2023	10/16/2023 12:00	Hana Lee	10/16/2023 16:10	Hana Lee	2444340
	10/11/2023	10/16/2023 12:00	Hana Lee	10/16/2023 16:24	Hana Lee	2444342
	10/11/2023	10/16/2023 12:00	Hana Lee	10/16/2023 20:36	Hana Lee	2444339
	10/11/2023	10/16/2023 12:00	Hana Lee	10/17/2023 01:00	Hana Lee	2444339
	10/11/2023	10/16/2023 12:00	Hana Lee	10/17/2023 01:13	Hana Lee	2444340
	10/11/2023	10/16/2023 12:00	Hana Lee	10/17/2023 01:26	Hana Lee	2444342
SM 2340 B-2011	10/11/2023			10/16/2023 20:15	McKinley C Carter	2444352
	10/11/2023			10/16/2023 20:23	McKinley C Carter	2444353
	10/11/2023			10/16/2023 20:30	McKinley C Carter	2444354
	10/11/2023			10/16/2023 20:38	McKinley C Carter	2444355