Chemical Analysis Report

SO-DIST-2023-06-15-01

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

Event Description: **2023 SMP: Lebella-Ella-Ella**
Request ID: **RQ-2023-06-12-23**
Customer: **SO-DIST**
Project ID: **SMP**

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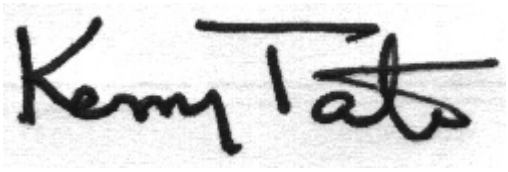
Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 12-JUL-2023 13:34



Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical groups are included in this report: Metals, Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

A - Value reported is the mean of two or more determinations.
B - Results based on colony counts outside the acceptable range.
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J - Estimated value and/or the analysis did not meet established quality control criteria.
K - Actual value is known to be less than value given.
L - Actual value is known to be greater than value given.
N - Presumptive evidence of presence of material.
O - Sampled, but analysis lost or not performed.
Q - Sample held beyond normal holding time.
T - Value reported is less than the criterion of detection.
U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
V - Analyte was detected in both sample and method blank.
X - Too few individuals to calculate SCI value.
Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: FORT SIMMONS BRANCH **Collection Date/Time: 06/14/2023 08:30**

Field ID: G3SD0177 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2417675	DEP SOP: NU-094-1	Color (true)	98		PCU	P431338	
	EPA 180.1 Rev. 2.0	Turbidity	1.3		NTU	P431349	
	EPA 300.0 Rev. 2.1	Chloride	64		mg Cl/L	P431683	
		Sulfate	79		mg SO4/L	P431686	
	SM 2320 B-2011	Total Alkalinity	261		mg CaCO3/L	P431569	
	SM 2540 C-2015	TDS	542		mg/L	P431885	
	SM 2540 D-2015	TSS	3	I	mg/L	P431825	
	SM 4500-F- C-2011	Fluoride	0.57		mg F/L	P431572	
2417677	EPA 350.1 Rev. 2.0	Ammonia-N	0.036		mg N/L	P431530	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P431702	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.014		mg N/L	P431721	
	EPA 365.1 Rev. 2.0	Total-P	0.42		mg P/L	P431453	
	SM 5310 B-2011	Organic Carbon	17		mg C/L	P431590	
2417735	EPA 8321B	Acesulfame K	0.20	U	ug/L	P431314	
		2,4-D	0.0020	U	ug/L	P431299	
		AMPA	0.28	I	ug/L	P431314	
		2,4,5-T	0.0040	U	ug/L	P431299	
		Acetaminophen	0.0080	U	ug/L	P431299	
		Endothall	0.25	U	ug/L	P431314	
		Acetamiprid	0.0020	U	ug/L	P431299	
		Glufosinate	0.10	U	ug/L	P431314	
		Glyphosate	0.21	I	ug/L	P431314	
		Afidopyropen	0.0020	U	ug/L	P431299	
		Sucralose	0.048	I	ug/L	P431314	
		Bentazon	0.0045		ug/L	P431299	
		Benzovindiflupyr	0.0020	U	ug/L	P431299	
		Carbamazepine	8.0E-04	U	ug/L	P431299	
		Clothianidin	0.0036	I	ug/L	P431299	
		Dinotefuran	0.0020	U	ug/L	P431299	
		Diuron	0.0020	U	ug/L	P431299	RPD
		Fenuron	0.032	U	ug/L	P431299	
		Fluridone	8.0E-04	U	ug/L	P431299	
		Imazapyr	0.049		ug/L	P431299	
		Hydrocodone	0.0020	U	ug/L	P431299	
		Ibuprofen	0.080	U	ug/L	P431299	
		Imidacloprid	0.0057	I	ug/L	P431299	
		Linuron	0.0040	U	ug/L	P431299	
		Mandestrobin	0.0020	U	ug/L	P431299	
		MCPP	0.0020	U	ug/L	P431299	
		Naproxen	0.0080	U	ug/L	P431299	
		Primidone	0.0040	U	ug/L	P431299	
		Pyraclostrobin	0.0020	U	ug/L	P431299	
		Silvex	0.0040	U	ug/L	P431299	
		Thiamethoxam	0.0020	U	ug/L	P431299	

Field ID: G3SD0177 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2417735	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P431299	
		Triclopyr	0.0040	U	ug/L	P431299	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: Some MDLs are elevated due to required dilution of sample matrix.

Sample Location: CHAPARRALSLOUGHATSR29 **Collection Date/Time: 06/14/2023 09:10**

Field ID: G3SD0224 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2417681	DEP SOP: NU-094-1	Color (true)	900		PCU	P431338	
	EPA 180.1 Rev. 2.0	Turbidity	1.2		NTU	P431349	
	EPA 300.0 Rev. 2.1	Chloride	15	A	mg Cl/L	P431683	
		Sulfate	0.53	A	mg SO4/L	P431686	
	SM 2320 B-2011	Total Alkalinity	8.0		mg CaCO3/L	P431569	
	SM 2540 C-2015	TDS	75		mg/L	P431885	
	SM 2540 D-2015	TSS	3	I	mg/L	P431825	
	SM 4500-F- C-2011	Fluoride	0.058	I	mg F/L	P431572	
2417682	EPA 350.1 Rev. 2.0	Ammonia-N	0.040		mg N/L	P431530	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.8		mg N/L	P431702	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P431721	
	EPA 365.1 Rev. 2.0	Total-P	0.13		mg P/L	P431731	
	SM 5310 B-2011	Organic Carbon	61		mg C/L	P431590	
2417741	EPA 200.7 Rev. 4.4	Calcium	8.95		mg/L	P431456	
		Iron	2.03E+03		ug/L	P431456	
		Magnesium	2.57		mg/L	P431456	
		Potassium	1.9		mg/L	P431456	
		Sodium	8.6		mg/L	P431456	
		Strontium	43.7		ug/L	P431456	
		Tin	3.0	U	ug/L	P431456	
		Titanium	1.7	I	ug/L	P431456	
		Vanadium	2.0	U	ug/L	P431456	
		Zinc	7.5	I	ug/L	P431456	
	EPA 200.8 Rev. 5.4	Aluminum	270		ug/L	P431456	
		Antimony	0.071	I	ug/L	P431456	
		Arsenic	2.51		ug/L	P431456	
		Barium	9.63		ug/L	P431456	
		Beryllium	0.023	I	ug/L	P431456	
		Boron	27.2		ug/L	P431456	
		Cadmium	0.020	U	ug/L	P431456	
		Chromium	0.88	I	ug/L	P431456	
		Cobalt	0.479		ug/L	P431456	
		Copper	0.72	I	ug/L	P431456	
		Lead	0.63		ug/L	P431456	
		Manganese	43.2		ug/L	P431456	
		Molybdenum	0.15	U	ug/L	P431456	
		Nickel	0.74	I	ug/L	P431456	
		Selenium	0.24	I	ug/L	P431456	
		Silver	0.010	U	ug/L	P431456	
		Thallium	0.10	U	ug/L	P431456	
	SM 2340 B-2011	Hardness	32.9		mg/L	P431456	

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

Sample Location: JACKS BRANCH **Collection Date/Time: 06/14/2023 09:55**

Field ID: G3SD0176 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2417676	DEP SOP: NU-094-1	Color (true)	380		PCU	P431338	
	EPA 180.1 Rev. 2.0	Turbidity	1.1		NTU	P431349	
	EPA 300.0 Rev. 2.1	Chloride	16		mg Cl/L	P431683	
		Sulfate	3.9		mg SO4/L	P431686	
	SM 2320 B-2011	Total Alkalinity	61		mg CaCO3/L	P431569	
	SM 2540 C-2015	TDS	142		mg/L	P431885	
	SM 2540 D-2015	TSS	2	I	mg/L	P431825	
	SM 4500-F- C-2011	Fluoride	0.081	I	mg F/L	P431572	
2417678	EPA 350.1 Rev. 2.0	Ammonia-N	0.025		mg N/L	P431530	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.6		mg N/L	P431702	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.027		mg N/L	P431721	
	EPA 365.1 Rev. 2.0	Total-P	0.15		mg P/L	P431453	
	SM 5310 B-2011	Organic Carbon	34		mg C/L	P431590	
2417736	EPA 8321B	2,4-D	0.0020	U	ug/L	P431434	
		Acesulfame K	0.10	U	ug/L	P431314	
		2,4,5-T	0.0040	U	ug/L	P431434	
		AMPA	0.34	I	ug/L	P431314	
		Acetaminophen	0.0080	U	ug/L	P431434	
		Acetamiprid	0.0020	U	ug/L	P431434	
		Endothall	0.25	U	ug/L	P431314	
		Glufosinate	0.10	U	ug/L	P431314	
		Glyphosate	0.29	I	ug/L	P431314	
		Afidopyropen	0.0020	U	ug/L	P431434	
		Bentazon	8.0E-04	U	ug/L	P431434	
		Sucralose	0.010	U	ug/L	P431314	
		Benzovindiflupyr	0.0020	U	ug/L	P431434	
		Carbamazepine	8.0E-04	U	ug/L	P431434	
		Clothianidin	0.0020	U	ug/L	P431434	
		Dinotefuran	0.010		ug/L	P431434	
		Diuron	0.0020	U	ug/L	P431434	RPD
		Fenuron	0.032	U	ug/L	P431434	
		Fluridone	8.0E-04	U	ug/L	P431434	
		Imazapyr	0.0040	U	ug/L	P431434	
		Hydrocodone	0.0020	U	ug/L	P431434	
		Ibuprofen	0.080	U	ug/L	P431434	
		Imidacloprid	0.0020	U	ug/L	P431434	
		Linuron	0.0040	U	ug/L	P431434	
		Mandestrobin	0.0020	U	ug/L	P431434	
		MCPP	0.0020	U	ug/L	P431434	
		Naproxen	0.0080	U	ug/L	P431434	
		Primidone	0.0040	U	ug/L	P431434	
		Pyraclostrobin	0.0020	U	ug/L	P431434	
		Silvex	0.0040	U	ug/L	P431434	
		Thiamethoxam	0.017		ug/L	P431434	

Field ID: G3SD0176 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2417736	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P431434	
		Triclopyr	0.0040	U	ug/L	P431434	

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

Sample Location: BEE BRANCH AT CR78 **Collection Date/Time: 06/14/2023 10:35**

Field ID: G3SD0226 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2417737	EPA 8321B	Aldicarb	0.020	U	ug/L	P431332	
		Aldicarb Sulfone	0.0020	U	ug/L	P431332	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P431332	MS
		Carbaryl	0.0020	U	ug/L	P431332	
		Carbofuran	0.0020	U	ug/L	P431332	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P431332	
		Methiocarb	0.0020	U	ug/L	P431332	
		Methomyl	0.0020	U	ug/L	P431332	
		Oxamyl	0.0020	U	ug/L	P431332	
		Propoxur	0.0020	U	ug/L	P431332	
2417738		2,4-D	0.0020	U	ug/L	P431434	
		Acesulfame K	0.10	U	ug/L	P431314	
		2,4,5-T	0.0040	U	ug/L	P431434	
		AMPA	0.21	I	ug/L	P431314	
		Acetaminophen	0.0080	U	ug/L	P431434	
		Acetamiprid	0.0020	U	ug/L	P431434	
		Endothall	0.25	U	ug/L	P431314	
		Glufosinate	0.10	U	ug/L	P431314	
		Glyphosate	0.10	U	ug/L	P431314	
		Afidopyropen	0.0020	U	ug/L	P431434	
		Bentazon	8.0E-04	U	ug/L	P431434	
		Sucralose	0.010	U	ug/L	P431314	
		Benzovindiflupyr	0.0020	U	ug/L	P431434	
		Carbamazepine	8.0E-04	U	ug/L	P431434	
		Clothianidin	0.0020	U	ug/L	P431434	
		Dinotefuran	0.0020	U	ug/L	P431434	
		Diuron	0.0020	U	ug/L	P431434	RPD
		Fenuron	0.032	U	ug/L	P431434	
		Fluridone	8.0E-04	U	ug/L	P431434	
		Imazapyr	0.0078	I	ug/L	P431434	
		Hydrocodone	0.0020	U	ug/L	P431434	
		Ibuprofen	0.080	U	ug/L	P431434	
		Imidacloprid	0.0060	I	ug/L	P431434	
		Linuron	0.0040	U	ug/L	P431434	
		Mandestrobin	0.0020	U	ug/L	P431434	
		MCPP	0.0020	U	ug/L	P431434	
		Naproxen	0.0080	U	ug/L	P431434	
		Primidone	0.0040	U	ug/L	P431434	
		Pyraclostrobin	0.0020	U	ug/L	P431434	
		Silvex	0.0040	U	ug/L	P431434	
		Thiamethoxam	0.0020	U	ug/L	P431434	
		Tolfenpyrad	0.0020	U	ug/L	P431434	
		Triclopyr	0.0040	U	ug/L	P431434	
2417739	EPA 8270E	Aldrin	0.66	U	ng/L	P431304	

Field ID: G3SD0226 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2417739	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P431304	
		Alpha-Chlordane	0.20	U	ng/L	P431304	
		PCB-1016	2.0	U	ng/L	P431304	
		Beta-BHC	0.54		ng/L	P431304	
		PCB-1221	2.0	U	ng/L	P431304	
		Beta-Cyfluthrin	1.3	U	ng/L	P431304	
		PCB-1232	2.0	U	ng/L	P431304	
		Bifenthrin	0.51	U	ng/L	P431304	
		PCB-1242	2.0	U	ng/L	P431304	
		PCB-1248	2.0	U	ng/L	P431304	
		Chlorothalonil	3.7	U	ng/L	P431304	
		PCB-1254	2.0	U	ng/L	P431304	
		Cis-Nonachlor	0.20	U	ng/L	P431304	
		PCB-1260	2.0	U	ng/L	P431304	
		Cypermethrin	1.5	U	ng/L	P431304	
		Dacthal	0.15	U	ng/L	P431304	
		DDD-p,p'	0.26	I	ng/L	P431304	
		DDE-p,p'	0.20	U	ng/L	P431304	
		DDT-p,p'	5.5	V	ng/L	P431304	
		Delta-BHC	0.41	U	ng/L	P431304	
		Deltamethrin	1.3	U	ng/L	P431304	
		Dichlobenil	0.26	U	ng/L	P431304	
		Dicofol	1.3	U	ng/L	P431304	
		Dieldrin	0.56	I	ng/L	P431304	
		Endosulfan I	0.41	U	ng/L	P431304	
		Endosulfan II	0.41	U	ng/L	P431304	
		Endosulfan Sulfate	0.31	U	ng/L	P431304	
		Endrin	0.41	U	ng/L	P431304	
		Endrin Aldehyde	0.77	U	ng/L	P431304	
		Endrin Ketone	0.41	U	ng/L	P431304	
		Esfenvalerate	0.77	U	ng/L	P431304	
		Ethalfluralin	0.15	U	ng/L	P431304	
		Fenpropathrin	0.26	U	ng/L	P431304	
		Gamma-BHC	0.13	U	ng/L	P431304	
		Gamma-Chlordane	0.30	I	ng/L	P431304	
		Heptachlor	0.20	U	ng/L	P431304	
		Heptachlor Epoxide	0.26	U	ng/L	P431304	
		Hexachlorobenzene**	1.0	U	ng/L	P431304	
		Kepone	5.1	U	ng/L	P431304	
		Lambda-Cyhalothrin	0.77	U	ng/L	P431304	
		Methoprene	0.77	U	ng/L	P431304	
		Methoxychlor	0.31	U	ng/L	P431304	
		MGK-264	0.20	U	ng/L	P431304	
		Mirex	0.36	U	ng/L	P431304	
		Oxychlordane	0.31	U	ng/L	P431304	

Field ID: G3SD0226 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2417739	EPA 8270E	Permethrin	1.6	U	ng/L	P431304	
		Phenothrin	0.92	U	ng/L	P431304	
		Piperonyl Butoxide	0.21	I	ng/L	P431304	
		Prallethrin	2.0	U	ng/L	P431304	
		Tau-Fluvalinate	0.26	U	ng/L	P431304	
		Tetramethrin	0.77	U	ng/L	P431304	
		Trans-Nonachlor	0.20	UJ	ng/L	P431304	CCV
		Triclosan Methyl	0.15	U	ng/L	P431304	
		Trifluralin	0.20	U	ng/L	P431304	
	EPA 8276	Chlordane	2.0	U	ng/L	P431304	MS
		Toxaphene	72		ng/L	P431304	MS
2417740	EPA 8270E	Oxybenzone**	10	U	ng/L	P431467	
		Acetochlor	0.20	U	ng/L	P431467	
		Octinoxate**	20	U	ng/L	P431467	
		Alachlor	0.41	U	ng/L	P431467	
		Avobenzone**	100	U	ng/L	P431467	
		Ametryn	1.1	U	ng/L	P431467	
		Atrazine	2.2		ng/L	P431467	
		PBDE-47**	4.1	U	ng/L	P431467	
		Atrazine Desethyl	1.3	U	ng/L	P431467	
		PBDE-99**	5.1	U	ng/L	P431467	
		Azinphos Methyl	3.1	U	ng/L	P431467	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P431467	
		Azoxystrobin	0.41	U	ng/L	P431467	
		Bromacil	11		ng/L	P431467	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P431467	
		Butylate	0.20	U	ng/L	P431467	
		Dechlorane Plus**	31	U	ng/L	P431467	
		Caffeine**	8.2	I	ng/L	P431467	
		Dechlorane 602**	5.1	U	ng/L	P431467	
		Carbophenothion	0.51	U	ng/L	P431467	
		Dechlorane 603**	4.1	U	ng/L	P431467	MS
		Carfentrazone Ethyl	0.15	U	ng/L	P431467	
		Hexabromobenzene**	6.1	U	ng/L	P431467	
		Chlorfenapyr	0.31	U	ng/L	P431467	
		PBB-153**	8.1	U	ng/L	P431467	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P431467	
		Pentabromotoluene**	3.1	U	ng/L	P431467	
		Chlorpyrifos Methyl	0.10	U	ng/L	P431467	
		Tris(2-chloroethyl) phosphate (TCEP)**	71	U	ng/L	P431467	
		Coumaphos	1.1	U	ng/L	P431467	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	32	I	ng/L	P431467	
		Cyanazine	5.1	U	ng/L	P431467	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.5	U	ng/L	P431467	

Field ID: G3SD0226 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2417740	EPA 8270E	Cyprodinil	0.20	U	ng/L	P431467	
		Tetradecachloro-m-terphenyl**	7.6	U	ng/L	P431467	
		Demeton	3.6	U	ng/L	P431467	
		Diazinon	0.13	U	ng/L	P431467	
		Difenoconazole	0.61	U	ng/L	P431467	
		Dimethenamid	0.10	U	ng/L	P431467	
		Dimethomorph	0.31	U	ng/L	P431467	
		Disulfoton	0.61	U	ng/L	P431467	
		Dithiopyr	1.0	U	ng/L	P431467	
		EPTC	0.51	U	ng/L	P431467	
		Ethion	0.31	U	ng/L	P431467	
		Ethoprop	0.13	U	ng/L	P431467	
		Etridiazole	0.10	U	ng/L	P431467	
		Fenamiphos	0.46	U	ng/L	P431467	
		Fenbuconazole	0.51	U	ng/L	P431467	
		Fipronil	0.20	UJ	ng/L	P431467	CCV
		Fipronil Desulfinyl**	0.10	U	ng/L	P431467	
		Fipronil Sulfide	0.10	U	ng/L	P431467	
		Fipronil Sulfone	0.10	U	ng/L	P431467	
		Fluazifop-P-butyl	0.10	UJ	ng/L	P431467	CCV
		Fludioxonil	0.10	U	ng/L	P431467	
		Flumioxazin	3.1	U	ng/L	P431467	
		Flutolanil	0.10	U	ng/L	P431467	
		Fluxapyroxad	0.43	I	ng/L	P431467	
		Fonofos	0.15	U	ng/L	P431467	
		Hexazinone	0.51	U	ng/L	P431467	
		Imazalil	0.66	U	ng/L	P431467	
		Iprodione	0.51	U	ng/L	P431467	MS, RPD
		Loratadine**	0.31	UJ	ng/L	P431467	CCV
		Malathion	0.36	U	ng/L	P431467	
		Metalaxyl	1.8	I	ng/L	P431467	
		Metolachlor	0.83	I	ng/L	P431467	
		Metribuzin	0.41	U	ng/L	P431467	
		Mevinphos	1.0	U	ng/L	P431467	MS
		Molinate	0.25	U	ng/L	P431467	
		Myclobutanil	0.36	U	ng/L	P431467	
		Naled	2.5	U	ng/L	P431467	
		Napropamide	0.71	U	ng/L	P431467	
		Norflurazon	25		ng/L	P431467	
		Oxadiazon	0.36	U	ng/L	P431467	
		Oxyfluorfen	0.20	U	ng/L	P431467	
		Parathion Ethyl	0.15	U	ng/L	P431467	
		Parathion Methyl	0.20	U	ng/L	P431467	
		Pendimethalin	0.76	U	ng/L	P431467	
		Phenytoin**	5.4	U	ng/L	P431467	

Field ID: G3SD0226 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2417740	EPA 8270E	Phorate	0.25	U	ng/L	P431467	
		Prodiamine	0.20	U	ng/L	P431467	
		Prometon	3.1	U	ng/L	P431467	
		Prometryn	0.36	U	ng/L	P431467	
		Pronamide	0.10	U	ng/L	P431467	
		Propanil	0.10	U	ng/L	P431467	
		Propargite	0.81	U	ng/L	P431467	
		Propiconazole	0.61	U	ng/L	P431467	
		Pyraflufen Ethyl	0.31	U	ng/L	P431467	
		Pyridaben	1.4	U	ng/L	P431467	
		Pyriproxyfen	0.25	U	ng/L	P431467	
		Simazine	0.25	U	ng/L	P431467	
		Stirophos	0.41	UJ	ng/L	P431467	CCV
		Sulfentrazone	1.4	U	ng/L	P431467	
		Tebuconazole	1.4	U	ng/L	P431467	
		Terbufos	0.20	U	ng/L	P431467	
		Terbuthylazine	0.20	U	ng/L	P431467	
		Thiobencarb	0.51	U	ng/L	P431467	
		Triadimefon	0.15	U	ng/L	P431467	
2417742	EPA 200.7 Rev. 4.4	Calcium	15.4		mg/L	P431456	
		Iron	1.75E+03		ug/L	P431456	
		Magnesium	3.44		mg/L	P431456	
		Potassium	2.0		mg/L	P431456	
		Sodium	12.7		mg/L	P431456	
		Strontium	254		ug/L	P431456	
		Tin	3.0	U	ug/L	P431456	
		Titanium	1.7	I	ug/L	P431456	
		Vanadium	2.0	U	ug/L	P431456	
		Zinc	10	I	ug/L	P431456	
	EPA 200.8 Rev. 5.4	Aluminum	495		ug/L	P431456	
		Antimony	0.10	I	ug/L	P431456	
		Arsenic	2.85		ug/L	P431456	
		Barium	15.8		ug/L	P431456	
		Beryllium	0.065		ug/L	P431456	
		Boron	32.2		ug/L	P431456	
		Cadmium	0.020	U	ug/L	P431456	
		Chromium	1.1	I	ug/L	P431456	
		Cobalt	0.253		ug/L	P431456	
		Copper	1.47		ug/L	P431456	
		Lead	0.52		ug/L	P431456	
		Manganese	18.9		ug/L	P431456	
		Molybdenum	0.38	I	ug/L	P431456	
		Nickel	1.2	I	ug/L	P431456	
		Selenium	0.25	I	ug/L	P431456	
		Silver	0.010	U	ug/L	P431456	

Field ID: G3SD0226 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2417742	EPA 200.8 Rev. 5.4	Thallium	0.10	U	ug/L	P431456	
	SM 2340 B-2011	Hardness	52.5		mg/L	P431456	

Ref. Method and Comment:
EPA 8270E: V - Due to the presence of ddt-p,p' in both the Method Blank and the sample. Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P431338

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431349

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P431456

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: P431456

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431683

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431686

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431530

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431702

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431721

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431453

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431731

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

Reference Method: EPA 8270E
Batch ID: P431304

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	3.6	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P431304

Component	Result	Code	Units
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'	0.71	I	ng/L
DDT-p,p'	0.77	I	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
Ethalfluralin	0.15	U	ng/L
Ethalfluralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P431304

Component	Result	Code	Units
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8270E
Batch ID: P431467

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P431467

Component	Result	Code	Units
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.20	U	ng/L
Butylate	0.20	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Demeton	3.5	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	0.30	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P431467

Component	Result	Code	Units
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P431467

Component	Result	Code	Units
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	8.0	U	ng/L
PBB-153	8.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	6.4	I	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	0.75	U	ng/L
Pendimethalin	0.75	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P431467

Component	Result	Code	Units
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbufos	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L

Reference Method: EPA 8276
Batch ID: P431304

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

Reference Method: EPA 8321B
Batch ID: P431299

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P431299

Component	Result	Code	Units
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

Reference Method: EPA 8321B
Batch ID: P431314

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: P431332

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
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P431434

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

Reference Method: SM 2320 B-2011
Batch ID: P431569

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

Reference Method: SM 2540 C-2015
Batch ID: P431885

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P431825

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P431572

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 5310 B-2011
Batch ID: P431590

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: P431338

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	101		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431349

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	98.7		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P431456

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Iron	105		P	85 - 115
Magnesium	104		P	85 - 115
Potassium	101		P	85 - 115
Sodium	104		P	85 - 115
Strontium	101		P	85 - 115
Tin	100		P	85 - 115
Titanium	99.7		P	85 - 115
Vanadium	100		P	85 - 115
Zinc	100		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P431456

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	99.2		P	85 - 115
Antimony	102		P	85 - 115
Arsenic	98.6		P	85 - 115
Barium	100		P	85 - 115
Beryllium	93.2		P	85 - 115
Boron	102		P	85 - 115
Cadmium	97.3		P	85 - 115
Chromium	94.9		P	85 - 115
Cobalt	101		P	85 - 115
Copper	97.1		P	85 - 115
Lead	103		P	85 - 115
Manganese	101		P	85 - 115
Molybdenum	96.9		P	85 - 115
Nickel	96.9		P	85 - 115
Selenium	98.3		P	85 - 115
Silver	105		P	85 - 115
Thallium	98.7		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431683

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431686

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431530

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431702

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431721

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431453

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	97.7		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431731

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

Reference Method: EPA 8270E
Batch ID: P431304

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	58.2		P	10 - 92.0
Alpha-BHC	76.2		P	75 - 107
Alpha-Chlordane	71.6		P	50 - 108
Beta-BHC	130		P	36 - 138
Beta-Cyfluthrin	49.7		P	20 - 161
Bifenthrin	54.9		P	10 - 119
Chlorothalonil	62.2		P	26 - 186
Cis-Nonachlor	65.6		P	42 - 119
Cypermethrin	54.1		P	22 - 150
Dacthal	111		P	72 - 119
DDD-p,p'	61.6		P	45 - 107
DDE-p,p'	52.2		P	48 - 106
DDT-p,p'	81.1		P	48 - 110
Delta-BHC	79.2		P	54 - 140
Deltamethrin	62.2		P	22 - 189
Dichlobenil	68.7		P	36 - 117

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P431304

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dicofol	53.4		P	46 - 155
Dieldrin	69.5		P	54 - 110
Endosulfan I	84.0		P	59 - 105
Endosulfan II	52.2		P	51 - 118
Endosulfan Sulfate	89.7		P	57 - 121
Endrin	68.7		P	10 - 120
Endrin Aldehyde	94.1		P	34 - 118
Endrin Ketone	83.4		P	69 - 177
Esfenvalerate	104		P	23 - 168
Ethalfluralin	59.3		P	49 - 99.0
Fenpropathrin	93.2		P	34 - 117
Gamma-BHC	82.6		P	72 - 117
Gamma-Chlordane	71.6		P	43 - 106
Heptachlor	71.5		P	41 - 98.0
Heptachlor Epoxide	79.7		P	57 - 106
Hexachlorobenzene	54.2		P	36 - 99.0
Kepone	115		P	16 - 215
Lambda-Cyhalothrin	58.7		P	21 - 177
Methoprene	33.6		P	10 - 119
Methoxychlor	68.7		P	60 - 112
MGK-264	59.0		P	26 - 122
Mirex	40.2		P	10 - 169
Oxychlordane	87.0		P	43 - 105
PCB-1016	66.4		P	48 - 112
PCB-1260	73.1		P	44 - 118
Permethrin	48.1		P	24 - 148
Phenothrin	41.4		P	10 - 106
Piperonyl Butoxide	65.8		P	10 - 139
Prallethrin	51.9		P	17 - 109
Tau-Fluvalinate	71.1		P	13 - 131
Tetramethrin	57.6		P	10 - 132
Trans-Nonachlor	55.5		P	44 - 106
Triclosan Methyl	76.1		P	59 - 109
Trifluralin	57.6		P	44 - 101

Reference Method: EPA 8270E
Batch ID: P431467

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	107		P	42 - 162
Acetochlor	80.6		P	69 - 123
Alachlor	88.2		P	65 - 118
Ametryn	107		P	58 - 141
Atrazine	96.1		P	73 - 118
Atrazine Desethyl	88.1		P	32 - 125
Avobenzone	121		P	40 - 203
Azinphos Methyl	107		P	36 - 197
Azoxystrobin	103		P	58 - 226
Bromacil	104		P	48 - 120
Butylate	55.5		P	27 - 85.0
Caffeine	100		P	40 - 137
Carbophenothion	102		P	54 - 132

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P431467

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Carfentrazone Ethyl	115		P	60 - 142
Chlorfenapyr	88.4		P	53 - 117
Chlorpyrifos Ethyl	96.4		P	59 - 116
Chlorpyrifos Methyl	94.6		P	66 - 119
Coumaphos	71.4		P	11 - 234
Cyanazine	193		P	61 - 248
Cyprodinil	107		P	50 - 147
Dechlorane 602	98.0		P	50 - 150
Dechlorane 603	134		P	50 - 150
Dechlorane Plus	99.8		P	47 - 182
Demeton	88.1		P	30 - 138
Diazinon	110		P	67 - 126
Difenoconazole	129		P	38 - 205
Dimethenamid	91.5		P	57 - 111
Dimethomorph	191		P	16 - 212
Disulfoton	101		P	46 - 126
Dithiopyr	103		P	62 - 115
EPTC	51.5		P	28 - 80.0
Ethion	83.4		P	24 - 122
Ethoprop	95.6		P	62 - 113
Etridiazole	70.0		P	28 - 92.0
Fenamiphos	92.8		P	57 - 128
Fenbuconazole	70.7		P	52 - 155
Fipronil	106		P	63 - 130
Fipronil Desulfinyl	100		P	61 - 130
Fipronil Sulfide	93.5		P	56 - 117
Fipronil Sulfone	83.8		P	52 - 118
Fluazifop-P-butyl	96.3		P	61 - 128
Fludioxonil	89.7		P	59 - 129
Flumioxazin	114		P	30 - 250
Flutolanil	93.6		P	53 - 127
Fluxapyroxad	103		P	42 - 132
Fonofos	93.8		P	61 - 110
Hexabromobenzene	133		P	50 - 150
Hexazinone	98.8		P	46 - 139
Imazalil	101		P	40 - 139
Iprodione	118		P	40 - 146
Loratadine	181		P	10 - 224
Malathion	101		P	61 - 135
Metalaxyl	97.4		P	58 - 121
Metolachlor	101		P	64 - 118
Metribuzin	95.8		P	45 - 245
Mevinphos	97.1		P	49 - 118
Molinate	57.3		P	42 - 92.0
Myclobutanil	98.0		P	55 - 127
Naled	48.5		P	10 - 114
Napropamide	85.0		P	39 - 121
Norflurazon	62.3		P	55 - 129
Octinoxate	123		P	26 - 166
Oxadiazon	94.6		P	54 - 115
Oxybenzone	128		P	49 - 135
Oxyfluorfen	112		P	64 - 139

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P431467

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Parathion Ethyl	103		P	70 - 111
Parathion Methyl	104		P	76 - 136
PBB-153	130		P	50 - 150
PBDE-47	112		P	41 - 148
PBDE-99	96.6		P	38 - 147
Pendimethalin	112		P	52 - 118
Pentabromotoluene	123		P	50 - 150
Phenytoin	22.8		P	10 - 162
Phorate	87.6		P	40 - 122
Prodiamine	48.2		P	26 - 141
Prometon	98.7		P	54 - 122
Prometryn	118		P	61 - 128
Pronamide	114		P	72 - 121
Propanil	119		P	45 - 144
Propargite	65.7		P	10 - 199
Propiconazole	89.1		P	56 - 127
Pyraflufen Ethyl	97.7		P	56 - 140
Pyridaben	125		P	26 - 211
Pyriproxyfen	85.5		P	33 - 194
Simazine	91.1		P	67 - 121
Stirophos	69.2		P	20 - 142
Sulfentrazone	77.2		P	21 - 144
Tebuconazole	70.0		P	10 - 122
Terbufos	109		P	60 - 129
Terbuthylazine	86.5		P	69 - 113
Tetradecachloro-m-terphenyl	141		P	70 - 200
Thiobencarb	93.6		P	51 - 120
Tri-o-cresyl Phosphate	123		P	49 - 150
Triadimefon	96.6		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	121		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	111		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	117		P	70 - 180

Reference Method: EPA 8276
Batch ID: P431304

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	79.3		P	53 - 126
Toxaphene	95.2		P	56 - 211

Reference Method: EPA 8321B
Batch ID: P431299

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	106		P	40 - 150
2,4,5-T	94.0		P	40 - 150
Acetaminophen	49.1		P	30 - 150
Acetamiprid	79.2		P	40 - 150
Afidopyropen	62.2		P	30 - 150
Bentazon	110		P	30 - 150
Benzovindiflupyr	64.4		P	40 - 150
Carbamazepine	67.4		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P431299

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Clothianidin	84.1		P	40 - 150
Dinotefuran	86.0		P	40 - 150
Diuron	51.7		P	40 - 150
Fenuron	72.2		P	40 - 150
Fluridone	73.1		P	40 - 150
Hydrocodone	86.2		P	40 - 150
Ibuprofen	85.3		P	40 - 150
Imazapyr	88.9		P	40 - 150
Imidacloprid	79.6		P	40 - 150
Linuron	82.7		P	40 - 150
Mandestrobin	78.8		P	40 - 150
MCPP	95.8		P	40 - 150
Naproxen	70.7		P	40 - 150
Primidone	77.1		P	40 - 150
Pyraclostrobin	87.0		P	40 - 150
Silvex	96.2		P	40 - 150
Thiamethoxam	83.2		P	40 - 150
Tolfenpyrad	60.4		P	30 - 150
Triclopyr	93.5		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P431314

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	146		P	40 - 150
AMPA	81.6		P	40 - 150
Endothall	97.0		P	40 - 150
Glufosinate	102		P	40 - 150
Glyphosate	107		P	40 - 150
Sucralose	120		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P431332

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	54.2		P	40 - 150
Aldicarb	40.7		P	30 - 150
Aldicarb Sulfone	77.9		P	40 - 150
Aldicarb Sulfoxide	93.0		P	40 - 150
Carbaryl	77.8		P	40 - 150
Carbofuran	69.8		P	40 - 150
Methiocarb	65.1		P	40 - 150
Methomyl	76.4		P	40 - 150
Oxamyl	70.9		P	40 - 150
Propoxur	66.3		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P431434

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	108		P	40 - 150
2,4,5-T	106		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P431434

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetaminophen	61.5		P	30 - 150
Acetamiprid	92.1		P	40 - 150
Afidopyropen	87.5		P	30 - 150
Bentazon	115		P	30 - 150
Benzovindiflupyr	76.0		P	40 - 150
Carbamazepine	86.3		P	40 - 150
Clothianidin	91.1		P	40 - 150
Dinotefuran	95.6		P	40 - 150
Diuron	89.6		P	40 - 150
Fenuron	87.0		P	40 - 150
Fluridone	87.8		P	40 - 150
Hydrocodone	95.6		P	40 - 150
Ibuprofen	92.1		P	40 - 150
Imazapyr	92.4		P	40 - 150
Imidacloprid	90.5		P	40 - 150
Linuron	86.0		P	40 - 150
Mandestrobin	96.3		P	40 - 150
MCPP	106		P	40 - 150
Naproxen	76.8		P	40 - 150
Primidone	85.8		P	40 - 150
Pyraclostrobin	93.9		P	40 - 150
Silvex	105		P	40 - 150
Thiamethoxam	87.3		P	40 - 150
Tolfenpyrad	66.8		P	30 - 150
Triclopyr	107		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P431569

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.3		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P431885

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

Reference Method: SM 2540 D-2015
Batch ID: P431825

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	95.8		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P431572

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	94 - 106

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P431590

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	93.5		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P431456

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417249	Calcium	105	103	P/P	80 - 120
2417249	Iron	106	102	P/P	80 - 120
2417249	Magnesium	105	101	P/P	80 - 120
2417249	Potassium	106	103	P/P	80 - 120
2417249	Sodium	105	102	P/P	80 - 120
2417249	Strontium	101	98.8	P/P	80 - 120
2417249	Tin	98.5	98.1	P/P	80 - 120
2417249	Titanium	101	97.6	P/P	80 - 120
2417249	Vanadium	101	98.2	P/P	80 - 120
2417249	Zinc	99.9	98.0	P/P	80 - 120
2417943	Calcium	99.1		P	80 - 120
2417943	Iron	102		P	80 - 120
2417943	Magnesium	102		P	80 - 120
2417943	Potassium	100		P	80 - 120
2417943	Sodium	100		P	80 - 120
2417943	Strontium	99.4		P	80 - 120
2417943	Tin	98.2		P	80 - 120
2417943	Titanium	98.3		P	80 - 120
2417943	Vanadium	99.9		P	80 - 120
2417943	Zinc	99.8		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P431456

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417249	Aluminum	97.5	98.6	P/P	80 - 120
2417249	Antimony	99.1	100	P/P	80 - 120
2417249	Arsenic	96.6	97.3	P/P	80 - 120
2417249	Barium	99.2	100	P/P	80 - 120
2417249	Beryllium	91.8	95.1	P/P	80 - 120
2417249	Boron	102	102	P/P	80 - 120
2417249	Cadmium	96.4	95.7	P/P	80 - 120
2417249	Chromium	95.6	96.8	P/P	80 - 120
2417249	Cobalt	100	101	P/P	80 - 120
2417249	Copper	98.1	98.0	P/P	80 - 120
2417249	Lead	102	102	P/P	80 - 120
2417249	Manganese	99.5	102	P/P	80 - 120
2417249	Molybdenum	94.7	96.2	P/P	80 - 120
2417249	Nickel	96.9	96.9	P/P	80 - 120
2417249	Selenium	96.2	97.5	P/P	80 - 120
2417249	Silver	104	104	P/P	80 - 120
2417249	Thallium	102	103	P/P	80 - 120
2417943	Aluminum	99.4		P	80 - 120
2417943	Antimony	101		P	80 - 120
2417943	Arsenic	97.9		P	80 - 120
2417943	Barium	98.2		P	80 - 120
2417943	Beryllium	95.3		P	80 - 120
2417943	Boron	102		P	80 - 120
2417943	Cadmium	96.8		P	80 - 120
2417943	Chromium	97.9		P	80 - 120
2417943	Cobalt	101		P	80 - 120
2417943	Copper	97.7		P	80 - 120

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P431456

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417943	Lead	99.6		P	80 - 120
2417943	Manganese	101		P	80 - 120
2417943	Molybdenum	97.4		P	80 - 120
2417943	Nickel	98.0		P	80 - 120
2417943	Selenium	97.8		P	80 - 120
2417943	Silver	105		P	80 - 120
2417943	Thallium	99.6		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431683

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417681	Chloride	96.5		P	90 - 110
2417909	Chloride	103		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431686

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417681	Sulfate	96.3		P	90 - 110
2417909	Sulfate	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431530

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417677	Ammonia-N	102	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431702

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417913	Kjeldahl Nitrogen	102	105	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431721

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417644	NO2NO3-N	105	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431453

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417642	Total-P	97.2	98.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431731

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417107	Total-P	100	101	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P431304

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417656	PCB-1016	54.0	56.2	P/P	46 - 111
2417656	PCB-1260	46.3	45.7	P/P	45 - 114
2417777	Aldrin	65.6	59.8	P/P	20 - 82.0
2417777	Alpha-BHC	81.6	82.3	P/P	71 - 109
2417777	Alpha-Chlordane	55.7	62.5	P/P	42 - 106
2417777	Beta-BHC	85.3	75.8	P/P	69 - 180
2417777	Beta-Cyfluthrin	74.5	72.1	P/P	18 - 175
2417777	Bifenthrin	110	96.9	P/P	21 - 128
2417777	Chlorothalonil	74.6	72.3	P/P	10 - 300
2417777	Cis-Nonachlor	50.7	63.2	P/P	34 - 106
2417777	Cypermethrin	74.4	74.8	P/P	22 - 158
2417777	Dacthal	75.8	81.9	P/P	54 - 116
2417777	DDD-p,p'	70.4	78.5	P/P	34 - 107
2417777	DDE-p,p'	76.7	77.5	P/P	33 - 110
2417777	DDT-p,p'	72.5	66.9	P/P	50 - 122
2417777	Delta-BHC	104	93.5	P/P	77 - 193
2417777	Deltamethrin	77.5	79.0	P/P	10 - 195
2417777	Dichlobenil	40.2	43.5	P/P	25 - 113
2417777	Dicofol	74.4	69.9	P/P	38 - 247
2417777	Dieldrin	66.6	67.5	P/P	45 - 118
2417777	Endosulfan I	75.0	75.0	P/P	51 - 106
2417777	Endosulfan II	63.2	61.1	P/P	37 - 122
2417777	Endosulfan Sulfate	71.7	71.4	P/P	43 - 132
2417777	Endrin	62.4	57.6	P/P	29 - 101
2417777	Endrin Aldehyde	53.3	69.5	P/P	19 - 110
2417777	Endrin Ketone	66.1	70.9	P/P	60 - 140
2417777	Esfenvalerate	119	108	P/P	26 - 199
2417777	Ethalfluralin	69.3	71.5	P/P	45 - 99.0
2417777	Fenpropathrin	100	103	P/P	35 - 120
2417777	Gamma-BHC	88.7	93.8	P/P	63 - 128
2417777	Gamma-Chlordane	71.0	65.1	P/P	40 - 104
2417777	Heptachlor	75.6	71.1	P/P	36 - 97.0
2417777	Heptachlor Epoxide	50.0	63.9	P/P	49 - 184
2417777	Hexachlorobenzene	68.3	72.7	P/P	39 - 96.0
2417777	Kepone	85.2	80.5	P/P	10 - 217
2417777	Lambda-Cyhalothrin	125	113	P/P	21 - 193
2417777	Methoprene	48.6	54.9	P/P	20 - 106
2417777	Methoxychlor	82.5	70.3	P/P	53 - 118
2417777	MGK-264	56.7	68.0	P/P	40 - 118
2417777	Mirex	60.5	59.2	P/P	26 - 92.0
2417777	Oxychlordane	58.9	73.1	P/P	44 - 99.0
2417777	Permethrin	55.6	56.9	P/P	33 - 182
2417777	Phenothrin	70.1	76.5	P/P	10 - 129
2417777	Piperonyl Butoxide	84.7	76.0	P/P	10 - 211
2417777	Prallethrin	57.6	53.8	P/P	24 - 113
2417777	Tau-Fluvalinate	111	102	P/P	14 - 149
2417777	Tetramethrin	79.3	79.5	P/P	17 - 151
2417777	Trans-Nonachlor	47.1	57.2	P/P	42 - 102
2417777	Triclosan Methyl	59.8	67.8	P/P	48 - 108
2417777	Trifluralin	74.2	69.2	P/P	47 - 96.0

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P431467

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417501	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	130	113	P/P	26 - 165
2417501	Acetochlor	70.3	103	P/P	67 - 124
2417501	Alachlor	80.8	78.5	P/P	60 - 120
2417501	Ametryn	150	143	P/P	54 - 216
2417501	Atrazine Desethyl	115	111	P/P	15 - 122
2417501	Avobenzone	132	121	P/P	37 - 178
2417501	Azinphos Methyl	153	122	P/P	40 - 292
2417501	Azoxystrobin	132	126	P/P	35 - 220
2417501	Bromacil	108	114	P/P	45 - 127
2417501	Butylate	58.2	55.0	P/P	20 - 83.0
2417501	Caffeine	108	107	P/P	10 - 194
2417501	Carbophenothion	125	106	P/P	57 - 127
2417501	Carfentrazone Ethyl	138	126	P/P	51 - 141
2417501	Chlorfenapyr	99.6	93.5	P/P	46 - 111
2417501	Chlorpyrifos Ethyl	93.8	101	P/P	52 - 120
2417501	Chlorpyrifos Methyl	87.8	90.0	P/P	63 - 119
2417501	Coumaphos	179	145	P/P	10 - 228
2417501	Cyanazine	213	180	P/P	59 - 241
2417501	Cyprodinil	103	78.3	P/P	47 - 146
2417501	Dechlorane 602	121	113	P/P	50 - 150
2417501	Dechlorane 603	160	156	F/F	50 - 150
2417501	Dechlorane Plus	97.6	98.0	P/P	50 - 150
2417501	Demeton	98.1	93.3	P/P	40 - 136
2417501	Diazinon	110	114	P/P	69 - 132
2417501	Difenoconazole	229	200	P/P	57 - 258
2417501	Dimethenamid	89.4	96.3	P/P	54 - 110
2417501	Dimethomorph	165	184	P/P	28 - 210
2417501	Disulfoton	111	107	P/P	43 - 133
2417501	Dithiopyr	111	110	P/P	39 - 116
2417501	EPTC	49.4	44.8	P/P	20 - 78.0
2417501	Ethion	93.8	81.4	P/P	17 - 119
2417501	Ethoprop	101	100	P/P	66 - 120
2417501	Etridiazole	83.4	66.1	P/P	28 - 96.0
2417501	Fenamiphos	82.4	91.8	P/P	41 - 126
2417501	Fenbuconazole	108	95.7	P/P	42 - 169
2417501	Fipronil	118	106	P/P	61 - 132
2417501	Fipronil Desulfinyl	111	99.5	P/P	56 - 132
2417501	Fipronil Sulfide	94.9	95.4	P/P	48 - 119
2417501	Fipronil Sulfone	95.7	101	P/P	42 - 131
2417501	Fluazifop-P-butyl	80.5	94.7	P/P	53 - 131
2417501	Fludioxonil	91.7	105	P/P	56 - 127
2417501	Flumioxazin	214	194	P/P	19 - 300
2417501	Flutolanil	96.1	99.9	P/P	41 - 127
2417501	Fluxapyroxad	123	112	P/P	42 - 172
2417501	Fonofos	90.1	87.3	P/P	59 - 113
2417501	Hexabromobenzene	145	139	P/P	50 - 150
2417501	Hexazinone	108	109	P/P	66 - 122
2417501	Imazalil	107	94.7	P/P	21 - 283
2417501	Iprodione	94.9	190	P/F	43 - 150
2417501	Loratadine	137	154	P/P	23 - 201
2417501	Malathion	115	105	P/P	58 - 136
2417501	Metalaxyl	111	89.2	P/P	55 - 120

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P431467

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417501	Metolachlor	80.0	98.7	P/P	57 - 121
2417501	Metribuzin	104	105	P/P	58 - 294
2417501	Mevinphos	143	110	F/P	50 - 126
2417501	Molinate	54.2	60.1	P/P	42 - 93.0
2417501	Myclobutanil	118	102	P/P	55 - 125
2417501	Naled	44.9	46.4	P/P	18 - 200
2417501	Napropamide	78.1	103	P/P	39 - 110
2417501	Norflurazon	120	104	P/P	48 - 128
2417501	Octinoxate	128	126	P/P	21 - 159
2417501	Oxadiazon	106	95.2	P/P	43 - 112
2417501	Oxybenzone	141	136	P/P	41 - 142
2417501	Oxyfluorfen	118	121	P/P	64 - 153
2417501	Parathion Ethyl	106	96.7	P/P	69 - 114
2417501	Parathion Methyl	96.6	82.6	P/P	79 - 139
2417501	PBB-153	149	144	P/P	50 - 150
2417501	PBDE-47	121	118	P/P	27 - 144
2417501	PBDE-99	117	109	P/P	18 - 150
2417501	Pendimethalin	123	105	P/P	50 - 139
2417501	Pentabromotoluene	132	123	P/P	50 - 150
2417501	Phenytoin	41.7	36.9	P/P	10 - 146
2417501	Phorate	127	112	P/P	54 - 161
2417501	Prodiamine	55.7	53.0	P/P	30 - 161
2417501	Prometon	102	99.2	P/P	45 - 134
2417501	Prometryn	111	116	P/P	45 - 137
2417501	Pronamide	131	117	P/P	65 - 133
2417501	Propanil	138	122	P/P	49 - 142
2417501	Propargite	92.3	80.8	P/P	10 - 203
2417501	Propiconazole	124	105	P/P	38 - 146
2417501	Pyraflufen Ethyl	126	111	P/P	34 - 153
2417501	Pyridaben	171	137	P/P	12 - 192
2417501	Pyriproxyfen	134	108	P/P	33 - 180
2417501	Simazine	96.2	95.6	P/P	51 - 157
2417501	Stirophos	53.1	83.0	P/P	10 - 128
2417501	Sulfentrazone	119	87.3	P/P	53 - 186
2417501	Tebuconazole	98.0	91.2	P/P	10 - 133
2417501	Terbufos	121	116	P/P	65 - 139
2417501	Terbuthylazine	90.5	91.7	P/P	66 - 117
2417501	Tetradecachloro-m-terphenyl	126	135	P/P	70 - 200
2417501	Thiobencarb	97.1	91.4	P/P	51 - 119
2417501	Tri-o-cresyl Phosphate	129	129	P/P	31 - 144
2417501	Triadimefon	114	90.4	P/P	48 - 119
2417501	Tris(1-chloro-2-propyl) phosphate (TCPP)	108	104	P/P	50 - 150
2417501	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	120	121	P/P	50 - 150
2417501	Tris(2-chloroethyl) phosphate (TCEP)	120	121	P/P	70 - 180

Reference Method: EPA 8276
Batch ID: P431304

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417656	Chlordane	46.4	43.3	F/F	53 - 126
2417656	Toxaphene	29.6	26.6	F/F	56 - 211

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P431299

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417275	2,4-D	108	100	P/P	40 - 150
2417275	2,4,5-T	110	91.1	P/P	40 - 150
2417275	Acetaminophen	51.3	49.6	P/P	30 - 150
2417275	Acetamiprid	86.8	67.5	P/P	40 - 150
2417275	Afidopyropen	54.5	70.5	P/P	30 - 150
2417275	Bentazon	104	110	P/P	30 - 150
2417275	Benzovindiflupyr	94.4	85.9	P/P	40 - 150
2417275	Carbamazepine	85.8	73.3	P/P	40 - 150
2417275	Clothianidin	91.3	96.8	P/P	40 - 150
2417275	Dinotefuran	95.1	89.8	P/P	40 - 150
2417275	Diuron	46.7	74.1	P/P	40 - 150
2417275	Fenuron	73.4	70.7	P/P	40 - 150
2417275	Fluridone	73.8	73.5	P/P	40 - 150
2417275	Hydrocodone	82.8	84.7	P/P	40 - 150
2417275	Ibuprofen	64.3	79.9	P/P	40 - 150
2417275	Imazapyr	113	107	P/P	40 - 150
2417275	Imidacloprid	98.8	126	P/P	40 - 150
2417275	Linuron	63.6	65.4	P/P	40 - 150
2417275	Mandestrobin	91.3	87.2	P/P	40 - 150
2417275	MCPP	112	105	P/P	40 - 150
2417275	Naproxen	75.3	67.2	P/P	40 - 150
2417275	Primidone	90.0	68.7	P/P	40 - 150
2417275	Pyraclostrobin	89.3	89.7	P/P	40 - 150
2417275	Silvex	109	97.2	P/P	40 - 150
2417275	Thiamethoxam	98.5	102	P/P	40 - 150
2417275	Tolfenpyrad	56.0	54.2	P/P	30 - 150
2417275	Triclopyr	121	96.7	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P431314

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417495	Acesulfame K	135	135	P/P	40 - 150
2417495	AMPA	74.7	71.7	P/P	40 - 150
2417495	Endothall	101	102	P/P	40 - 150
2417495	Glufosinate	92.8	94.6	P/P	40 - 150
2417495	Glyphosate	90.5	92.4	P/P	40 - 150
2417495	Sucralose	124	123	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P431332

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417274	3-Hydroxycarbofuran	70.1	68.7	P/P	40 - 150
2417274	Aldicarb	53.7	59.6	P/P	30 - 150
2417274	Aldicarb Sulfone	83.5	86.2	P/P	40 - 150
2417274	Aldicarb Sulfoxide	25.2	31.8	F/F	40 - 150
2417274	Carbaryl	69.2	53.9	P/P	40 - 150
2417274	Carbofuran	63.4	62.4	P/P	40 - 150
2417274	Methiocarb	78.8	91.0	P/P	40 - 150
2417274	Methomyl	70.5	74.8	P/P	40 - 150
2417274	Oxamyl	80.3	76.1	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P431332

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417274	Propoxur	67.8	64.7	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P431434

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417875	2,4-D	113	87.7	P/P	40 - 150
2417875	2,4,5-T	113	89.8	P/P	40 - 150
2417875	Acetaminophen	69.2	61.5	P/P	30 - 150
2417875	Acetamiprid	77.4	68.6	P/P	40 - 150
2417875	Afidopyropen	76.6	74.4	P/P	30 - 150
2417875	Bentazon	69.8	53.6	P/P	30 - 150
2417875	Benzovindiflupyr	85.6	85.4	P/P	40 - 150
2417875	Carbamazepine	69.9	58.0	P/P	40 - 150
2417875	Clothianidin	102	82.0	P/P	40 - 150
2417875	Dinotefuran	81.0	69.2	P/P	40 - 150
2417875	Diuron	43.3	79.4	P/P	40 - 150
2417875	Fenuron	65.0	59.7	P/P	40 - 150
2417875	Fluridone	77.4	74.6	P/P	40 - 150
2417875	Hydrocodone	71.1	66.2	P/P	40 - 150
2417875	Ibuprofen	83.9	70.1	P/P	40 - 150
2417875	Imazapyr	90.4	79.7	P/P	40 - 150
2417875	Imidacloprid	125	109	P/P	40 - 150
2417875	Linuron	72.4	67.4	P/P	40 - 150
2417875	Mandestrobin	90.9	86.8	P/P	40 - 150
2417875	MCPP	124	109	P/P	40 - 150
2417875	Naproxen	66.7	59.8	P/P	40 - 150
2417875	Primidone	81.1	66.9	P/P	40 - 150
2417875	Pyraclostrobin	83.4	77.3	P/P	40 - 150
2417875	Silvex	93.1	79.3	P/P	40 - 150
2417875	Thiamethoxam	88.2	95.1	P/P	40 - 150
2417875	Tolfenpyrad	58.9	48.4	P/P	30 - 150
2417875	Triclopyr	108	93.2	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P431572

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417428	Fluoride	101	101	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P431590

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417643	Organic Carbon	91.3	96.2	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P431338

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417640	Color (true)	5.21	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431349

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417573	Turbidity	11.0	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P431456

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417249	Calcium	1.83	Spike	P	0 - 20
2417249	Iron	3.82	Spike	P	0 - 20
2417249	Magnesium	3.48	Spike	P	0 - 20
2417249	Potassium	2.40	Spike	P	0 - 20
2417249	Sodium	2.14	Spike	P	0 - 20
2417249	Strontium	2.13	Spike	P	0 - 20
2417249	Tin	0.385	Spike	P	0 - 20
2417249	Titanium	3.04	Spike	P	0 - 20
2417249	Vanadium	2.69	Spike	P	0 - 20
2417249	Zinc	1.94	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P431456

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417249	Aluminum	0.939	Spike	P	0 - 20
2417249	Antimony	1.38	Spike	P	0 - 20
2417249	Arsenic	0.751	Spike	P	0 - 20
2417249	Barium	0.976	Spike	P	0 - 20
2417249	Beryllium	3.37	Spike	P	0 - 20
2417249	Boron	0.487	Spike	P	0 - 20
2417249	Cadmium	0.764	Spike	P	0 - 20
2417249	Chromium	1.27	Spike	P	0 - 20
2417249	Cobalt	0.449	Spike	P	0 - 20
2417249	Copper	0.132	Spike	P	0 - 20
2417249	Lead	0.350	Spike	P	0 - 20
2417249	Manganese	2.36	Spike	P	0 - 20
2417249	Molybdenum	1.52	Spike	P	0 - 20
2417249	Nickel	0.0722	Spike	P	0 - 20
2417249	Selenium	1.33	Spike	P	0 - 20
2417249	Silver	0.139	Spike	P	0 - 20
2417249	Thallium	1.08	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431683

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417681	Chloride	0.613	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431686

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417681	Sulfate	0.693	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431530

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417677	Ammonia-N	1.38	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431702

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417913	Kjeldahl Nitrogen	1.72	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431721

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417644	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431453

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417642	Total-P	1.41	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431731

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417107	Total-P	0.290	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P431304

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417656	PCB-1016	3.89	Spike	P	0 - 32
2417656	PCB-1260	1.23	Spike	P	0 - 31

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P431304

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417777	Aldrin	9.34	Spike	P	0 - 41
2417777	Alpha-BHC	0.818	Spike	P	0 - 25
2417777	Alpha-Chlordane	11.6	Spike	P	0 - 33
2417777	Beta-BHC	9.11	Spike	P	0 - 36
2417777	Beta-Cyfluthrin	3.25	Spike	P	0 - 42
2417777	Bifenthrin	12.7	Spike	P	0 - 53
2417777	Chlorothalonil	3.13	Spike	P	0 - 71
2417777	Cis-Nonachlor	21.9	Spike	P	0 - 29
2417777	Cypermethrin	0.521	Spike	P	0 - 40
2417777	Dacthal	7.63	Spike	P	0 - 26
2417777	DDD-p,p'	9.47	Spike	P	0 - 39
2417777	DDE-p,p'	1.11	Spike	P	0 - 33
2417777	DDT-p,p'	4.66	Spike	P	0 - 40
2417777	Delta-BHC	11.1	Spike	P	0 - 37
2417777	Deltamethrin	1.98	Spike	P	0 - 100
2417777	Dichlobenil	7.73	Spike	P	0 - 40
2417777	Dicofol	6.19	Spike	P	0 - 31
2417777	Dieldrin	1.25	Spike	P	0 - 27
2417777	Endosulfan I	0.0135	Spike	P	0 - 23
2417777	Endosulfan II	3.42	Spike	P	0 - 28
2417777	Endosulfan Sulfate	0.496	Spike	P	0 - 38
2417777	Endrin	8.04	Spike	P	0 - 63
2417777	Endrin Aldehyde	26.4	Spike	P	0 - 60
2417777	Endrin Ketone	6.96	Spike	P	0 - 37
2417777	Esfenvalerate	9.76	Spike	P	0 - 52
2417777	Ethalfluralin	3.01	Spike	P	0 - 23
2417777	Fenpropathrin	2.89	Spike	P	0 - 32
2417777	Gamma-BHC	5.67	Spike	P	0 - 17
2417777	Gamma-Chlordane	8.70	Spike	P	0 - 40
2417777	Heptachlor	6.14	Spike	P	0 - 29
2417777	Heptachlor Epoxide	19.7	Spike	P	0 - 25
2417777	Hexachlorobenzene	6.14	Spike	P	0 - 36
2417777	Kepone	5.66	Spike	P	0 - 93
2417777	Lambda-Cyhalothrin	9.96	Spike	P	0 - 55
2417777	Methoprene	12.3	Spike	P	0 - 53
2417777	Methoxychlor	15.9	Spike	P	0 - 29
2417777	MGK-264	18.0	Spike	P	0 - 35
2417777	Mirex	2.05	Spike	P	0 - 46
2417777	Oxychlordane	21.5	Spike	P	0 - 29
2417777	Permethrin	1.88	Spike	P	0 - 44
2417777	Phenothrin	8.74	Spike	P	0 - 56
2417777	Piperonyl Butoxide	10.8	Spike	P	0 - 100
2417777	Prallethrin	6.76	Spike	P	0 - 42
2417777	Tau-Fluvalinate	8.56	Spike	P	0 - 54
2417777	Tetramethrin	0.175	Spike	P	0 - 51
2417777	Trans-Nonachlor	19.2	Spike	P	0 - 37
2417777	Triclosan Methyl	12.5	Spike	P	0 - 31
2417777	Trifluralin	6.90	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P431467

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417501	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	13.8	Spike	P	0 - 37
2417501	Acetochlor	19.0	Spike	P	0 - 28
2417501	Alachlor	2.84	Spike	P	0 - 30
2417501	Ametryn	4.65	Spike	P	0 - 32
2417501	Atrazine	10.6	Spike	P	0 - 41
2417501	Atrazine Desethyl	2.28	Spike	P	0 - 36
2417501	Avobenzone	8.68	Spike	P	0 - 36
2417501	Azinphos Methyl	22.5	Spike	P	0 - 75
2417501	Azoxystrobin	4.97	Spike	P	0 - 39
2417501	Bromacil	5.35	Spike	P	0 - 33
2417501	Butylate	5.78	Spike	P	0 - 44
2417501	Caffeine	0.565	Spike	P	0 - 74
2417501	Carbophenothion	16.3	Spike	P	0 - 25
2417501	Carfentrazone Ethyl	9.06	Spike	P	0 - 27
2417501	Chlorfenapyr	6.32	Spike	P	0 - 24
2417501	Chlorpyrifos Ethyl	7.31	Spike	P	0 - 26
2417501	Chlorpyrifos Methyl	2.55	Spike	P	0 - 26
2417501	Coumaphos	21.0	Spike	P	0 - 28
2417501	Cyanazine	16.8	Spike	P	0 - 48
2417501	Cyprodinil	26.9	Spike	P	0 - 29
2417501	Dechlorane 602	6.80	Spike	P	0 - 30
2417501	Dechlorane 603	2.43	Spike	P	0 - 30
2417501	Dechlorane Plus	0.446	Spike	P	0 - 30
2417501	Demeton	5.03	Spike	P	0 - 33
2417501	Diazinon	3.94	Spike	P	0 - 29
2417501	Difenoconazole	13.9	Spike	P	0 - 34
2417501	Dimethenamid	7.49	Spike	P	0 - 39
2417501	Dimethomorph	10.4	Spike	P	0 - 51
2417501	Disulfoton	4.41	Spike	P	0 - 30
2417501	Dithiopyr	1.73	Spike	P	0 - 26
2417501	EPTC	9.68	Spike	P	0 - 43
2417501	Ethion	14.1	Spike	P	0 - 79
2417501	Ethoprop	0.229	Spike	P	0 - 29
2417501	Etridiazole	23.1	Spike	P	0 - 33
2417501	Fenamiphos	10.8	Spike	P	0 - 40
2417501	Fenbuconazole	11.7	Spike	P	0 - 74
2417501	Fipronil	10.6	Spike	P	0 - 29
2417501	Fipronil Desulfinyl	10.7	Spike	P	0 - 32
2417501	Fipronil Sulfide	0.573	Spike	P	0 - 30
2417501	Fipronil Sulfone	5.81	Spike	P	0 - 33
2417501	Fluazifop-P-butyl	16.3	Spike	P	0 - 38
2417501	Fludioxonil	13.5	Spike	P	0 - 29
2417501	Flumioxazin	9.81	Spike	P	0 - 51
2417501	Flutolanil	3.88	Spike	P	0 - 25
2417501	Fluxapyroxad	8.32	Spike	P	0 - 45
2417501	Fonofos	3.09	Spike	P	0 - 27
2417501	Hexabromobenzene	4.15	Spike	P	0 - 30
2417501	Hexazinone	1.22	Spike	P	0 - 30
2417501	Imazalil	12.1	Spike	P	0 - 100
2417501	Iprodione	66.9	Spike	F	0 - 33
2417501	Loratadine	11.1	Spike	P	0 - 56

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P431467

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417501	Malathion	8.67	Spike	P	0 - 37
2417501	Metalaxyl	21.5	Spike	P	0 - 40
2417501	Metolachlor	8.37	Spike	P	0 - 29
2417501	Metribuzin	0.823	Spike	P	0 - 45
2417501	Mevinphos	26.5	Spike	P	0 - 29
2417501	Molinate	10.3	Spike	P	0 - 33
2417501	Myclobutanil	14.5	Spike	P	0 - 26
2417501	Naled	3.26	Spike	P	0 - 37
2417501	Napropamide	27.1	Spike	P	0 - 44
2417501	Norflurazon	14.2	Spike	P	0 - 30
2417501	Octinoxate	1.36	Spike	P	0 - 45
2417501	Oxadiazon	10.7	Spike	P	0 - 28
2417501	Oxybenzone	3.25	Spike	P	0 - 46
2417501	Oxyfluorfen	2.79	Spike	P	0 - 28
2417501	Parathion Ethyl	9.05	Spike	P	0 - 31
2417501	Parathion Methyl	15.6	Spike	P	0 - 29
2417501	PBB-153	3.48	Spike	P	0 - 30
2417501	PBDE-47	2.65	Spike	P	0 - 36
2417501	PBDE-99	6.90	Spike	P	0 - 40
2417501	Pendimethalin	16.2	Spike	P	0 - 33
2417501	Pentabromotoluene	7.27	Spike	P	0 - 30
2417501	Phenytoin	12.1	Spike	P	0 - 100
2417501	Phorate	12.7	Spike	P	0 - 36
2417501	Prodiamine	4.96	Spike	P	0 - 71
2417501	Prometon	2.66	Spike	P	0 - 36
2417501	Prometryn	4.96	Spike	P	0 - 28
2417501	Pronamide	11.8	Spike	P	0 - 24
2417501	Propanil	12.4	Spike	P	0 - 28
2417501	Propargite	13.3	Spike	P	0 - 43
2417501	Propiconazole	17.2	Spike	P	0 - 33
2417501	Pyraflufen Ethyl	12.9	Spike	P	0 - 29
2417501	Pyridaben	21.8	Spike	P	0 - 30
2417501	Pyriproxyfen	20.8	Spike	P	0 - 79
2417501	Simazine	0.694	Spike	P	0 - 29
2417501	Stirophos	44.0	Spike	P	0 - 61
2417501	Sulfentrazone	30.4	Spike	P	0 - 33
2417501	Tebuconazole	7.20	Spike	P	0 - 69
2417501	Terbufos	3.50	Spike	P	0 - 29
2417501	Terbuthylazine	1.32	Spike	P	0 - 32
2417501	Tetradecachloro-m-terphenyl	6.71	Spike	P	0 - 30
2417501	Thiobencarb	5.54	Spike	P	0 - 26
2417501	Tri-o-cresyl Phosphate	0.0811	Spike	P	0 - 33
2417501	Triadimefon	23.2	Spike	P	0 - 28
2417501	Tris(1-chloro-2-propyl) phosphate (TCPP)	4.34	Spike	P	0 - 30
2417501	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	1.26	Spike	P	0 - 30
2417501	Tris(2-chloroethyl) phosphate (TCEP)	0.582	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8276
Batch ID: P431304

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417656	Chlordane	6.92	Spike	P	0 - 25
2417656	Toxaphene	5.57	Spike	P	0 - 26

Reference Method: EPA 8321B
Batch ID: P431299

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417275	2,4-D	7.28	Spike	P	0 - 30
2417275	2,4,5-T	19.1	Spike	P	0 - 30
2417275	Acetaminophen	3.29	Spike	P	0 - 30
2417275	Acetamiprid	24.9	Spike	P	0 - 30
2417275	Afidopyropen	25.5	Spike	P	0 - 30
2417275	Bentazon	5.26	Spike	P	0 - 30
2417275	Benzovindiflupyr	9.51	Spike	P	0 - 30
2417275	Carbamazepine	15.8	Spike	P	0 - 30
2417275	Clothianidin	5.86	Spike	P	0 - 30
2417275	Dinotefuran	5.66	Spike	P	0 - 30
2417275	Diuron	45.4	Spike	F	0 - 30
2417275	Fenuron	3.80	Spike	P	0 - 30
2417275	Fluridone	0.429	Spike	P	0 - 30
2417275	Hydrocodone	2.30	Spike	P	0 - 30
2417275	Ibuprofen	21.7	Spike	P	0 - 30
2417275	Imazapyr	5.47	Spike	P	0 - 30
2417275	Imidacloprid	22.2	Spike	P	0 - 30
2417275	Linuron	2.75	Spike	P	0 - 30
2417275	Mandestrobin	4.60	Spike	P	0 - 30
2417275	MCPP	6.42	Spike	P	0 - 30
2417275	Naproxen	11.3	Spike	P	0 - 30
2417275	Primidone	26.8	Spike	P	0 - 30
2417275	Pyraclostrobin	0.421	Spike	P	0 - 30
2417275	Silvex	11.1	Spike	P	0 - 30
2417275	Thiamethoxam	3.19	Spike	P	0 - 30
2417275	Tolfenpyrad	3.28	Spike	P	0 - 30
2417275	Triclopyr	22.2	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P431314

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417495	Acesulfame K	0.395	Spike	P	0 - 30
2417495	AMPA	4.02	Spike	P	0 - 30
2417495	Endothall	0.867	Spike	P	0 - 30
2417495	Glufosinate	1.92	Spike	P	0 - 30
2417495	Glyphosate	2.11	Spike	P	0 - 30
2417495	Sucralose	0.971	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P431332

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417274	3-Hydroxycarbofuran	1.93	Spike	P	0 - 30
2417274	Aldicarb	10.5	Spike	P	0 - 30
2417274	Aldicarb Sulfone	3.18	Spike	P	0 - 30
2417274	Aldicarb Sulfoxide	23.2	Spike	P	0 - 30
2417274	Carbaryl	25.0	Spike	P	0 - 30
2417274	Carbofuran	1.54	Spike	P	0 - 30
2417274	Methiocarb	14.4	Spike	P	0 - 30
2417274	Methomyl	5.91	Spike	P	0 - 30
2417274	Oxamyl	5.47	Spike	P	0 - 30
2417274	Propoxur	4.70	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P431434

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417875	2,4-D	15.0	Spike	P	0 - 30
2417875	2,4,5-T	22.7	Spike	P	0 - 30
2417875	Acetaminophen	11.8	Spike	P	0 - 30
2417875	Acetamiprid	12.0	Spike	P	0 - 30
2417875	Afidopyropen	2.81	Spike	P	0 - 30
2417875	Bentazon	16.6	Spike	P	0 - 30
2417875	Benzovindiflupyr	0.292	Spike	P	0 - 30
2417875	Carbamazepine	18.6	Spike	P	0 - 30
2417875	Clothianidin	21.8	Spike	P	0 - 30
2417875	Dinotefuran	14.0	Spike	P	0 - 30
2417875	Diuron	52.2	Spike	F	0 - 30
2417875	Fenuron	8.42	Spike	P	0 - 30
2417875	Fluridone	3.68	Spike	P	0 - 30
2417875	Hydrocodone	7.16	Spike	P	0 - 30
2417875	Ibuprofen	18.0	Spike	P	0 - 30
2417875	Imazapyr	10.3	Spike	P	0 - 30
2417875	Imidacloprid	13.4	Spike	P	0 - 30
2417875	Linuron	7.17	Spike	P	0 - 30
2417875	Mandestrobin	4.59	Spike	P	0 - 30
2417875	MCPP	13.5	Spike	P	0 - 30
2417875	Naproxen	10.9	Spike	P	0 - 30
2417875	Primidone	19.2	Spike	P	0 - 30
2417875	Pyraclostrobin	7.49	Spike	P	0 - 30
2417875	Silvex	16.0	Spike	P	0 - 30
2417875	Thiamethoxam	7.60	Spike	P	0 - 30
2417875	Tolfenpyrad	19.5	Spike	P	0 - 30
2417875	Triclopyr	14.6	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P431569

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417428	Total Alkalinity	1.34	Sample	P	0 - 3.9

Quality Assurance Report
Precision

Reference Method: SM 2540 C-2015
Batch ID: P431885

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417425	TDS	2.04	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P431572

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417428	Fluoride	0.476	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P431590

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417643	Organic Carbon	3.30	Spike	P	0 - 20

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2417735
Field Sample ID: G3SD0177

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	85.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	63.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	53.2	P	30 - 160
EPA 8321B	Diuron-d6	48.4	P	30 - 160
EPA 8321B	Endothall-d6	136	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	72.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	61.0	P	30 - 160
EPA 8321B	Primidone-d5	58.4	P	30 - 160
EPA 8321B	Sucralose-d6	88.7	P	30 - 160

Lab Sample ID: 2417736
Field Sample ID: G3SD0176

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	82.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	64.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	50.7	P	30 - 160
EPA 8321B	Diuron-d6	43.3	P	30 - 160
EPA 8321B	Endothall-d6	140	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	94.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	60.6	P	30 - 160
EPA 8321B	Primidone-d5	83.3	P	30 - 160
EPA 8321B	Sucralose-d6	138	P	30 - 160

Lab Sample ID: 2417737
Field Sample ID: G3SD0226

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	35.5	P	30 - 160

Lab Sample ID: 2417738
Field Sample ID: G3SD0226

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	72.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	66.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	45.1	P	30 - 160
EPA 8321B	Diuron-d6	39.5	P	30 - 160
EPA 8321B	Endothall-d6	141	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	92.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	61.0	P	30 - 160
EPA 8321B	Primidone-d5	57.3	P	30 - 160
EPA 8321B	Sucralose-d6	128	P	30 - 160

Lab Sample ID: 2417739
Field Sample ID: G3SD0226

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	56.7	P	29 - 130
EPA 8270E	Decachlorobiphenyl	53.8	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	55.0	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	44.0	P	30 - 97.0

Quality Assurance Report
Surrogates

Lab Sample ID: 2417739
Field Sample ID: G3SD0226

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8276	Decachlorobiphenyl	52.8	P	30 - 101
EPA 8276	PCNB	79.1	P	48 - 121

Lab Sample ID: 2417740
Field Sample ID: G3SD0226

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	60.9	P	20 - 200
EPA 8270E	Simazine-d10	68.2	P	62 - 142
EPA 8270E	Terbufos-d10	85.6	P	58 - 132
EPA 8270E	Terphenyl-d14	64.3	P	52 - 137

Quality Assurance Report
Calibration Verification

Reference Method: DEP SOP: NU-094-1
Run ID: A119831
Included Lab Sample IDs: 2417675, 2417676, 2417681

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	100	P/P	90 - 110
Color (true)	101	101	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A119833
Included Lab Sample IDs: 2417675, 2417676, 2417681

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

Reference Method: EPA 8321B
Run ID: A119868
Included Lab Sample IDs: 2417735, 2417736, 2417738

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	145	143	P/P	60 - 160
Acesulfame K	147	149	P/P	60 - 160
Sucralose	128	110	P/P	60 - 160
Sucralose	87.7	105	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A119875
Included Lab Sample IDs: 2417735, 2417736, 2417738

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	101	100	P/P	60 - 160
Endothall	92.6	98.1	P/P	60 - 160
Glufosinate	90.1	96.8	P/P	60 - 160
Glyphosate	101	105	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A119900
Included Lab Sample IDs: 2417735, 2417736, 2417738

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	104	93.5	P/P	50 - 150
2,4-D	105	87.1	P/P	50 - 150
2,4,5-T	108	91.8	P/P	50 - 150
2,4,5-T	96.7	91.9	P/P	50 - 150
3-Hydroxycarbofuran	105	93.2	P/P	60 - 150
Acetaminophen	71.0	68.5	P/P	60 - 160
Acetaminophen	75.8	73.3	P/P	60 - 160
Acetamiprid	102	110	P/P	50 - 150
Acetamiprid	106	95.3	P/P	50 - 150
Afidopyropen	77.7	109	P/P	50 - 150
Afidopyropen	83.3	136	P/P	50 - 150
Aldicarb	107	113	P/P	60 - 150
Aldicarb Sulfone	101	114	P/P	50 - 150
Aldicarb Sulfoxide	74.3	97.5	P/P	50 - 150
Bentazon	125	137	P/P	50 - 160
Bentazon	159	142	P/P	50 - 160

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A119900
Included Lab Sample IDs: 2417735, 2417736, 2417738

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Benzovindiflupyr	123	110	P/P	50 - 150
Benzovindiflupyr	88.5	101	P/P	50 - 150
Carbamazepine	111	96.9	P/P	60 - 150
Carbamazepine	90.6	105	P/P	60 - 150
Carbaryl	104	106	P/P	60 - 150
Carbofuran	91.7	93.5	P/P	50 - 150
Clothianidin	113	109	P/P	60 - 150
Clothianidin	86.5	99.9	P/P	60 - 150
Dinotefuran	105	107	P/P	50 - 150
Dinotefuran	107	104	P/P	50 - 150
Diuron	108	124	P/P	60 - 160
Diuron	125	126	P/P	60 - 160
Fenuron	105	92.5	P/P	60 - 150
Fenuron	113	98.3	P/P	60 - 150
Fluridone	104	95.5	P/P	60 - 160
Fluridone	98.8	97.4	P/P	60 - 160
Hydrocodone	113	100	P/P	60 - 150
Hydrocodone	118	111	P/P	60 - 150
Ibuprofen	78.8	132	P/P	50 - 160
Ibuprofen	95.5	89.5	P/P	50 - 160
Imazapyr	105	104	P/P	50 - 150
Imazapyr	105	105	P/P	50 - 150
Imidacloprid	97.3	109	P/P	60 - 150
Imidacloprid	98.1	90.5	P/P	60 - 150
Linuron	110	105	P/P	60 - 150
Linuron	84.3	99.8	P/P	60 - 150
Mandestrobin	110	116	P/P	50 - 150
Mandestrobin	113	101	P/P	50 - 150
MCPP	104	98.5	P/P	50 - 150
MCPP	99.6	89.8	P/P	50 - 150
Methiocarb	122	108	P/P	50 - 150
Methomyl	98.5	97.9	P/P	50 - 150
Naproxen	110	98.0	P/P	50 - 160
Naproxen	68.2	67.8	P/P	50 - 160
Oxamyl	118	89.8	P/P	50 - 150
Primidone	110	95.5	P/P	60 - 150
Primidone	85.2	101	P/P	60 - 150
Propoxur	106	112	P/P	50 - 150
Pyraclostrobin	113	116	P/P	60 - 150
Pyraclostrobin	129	105	P/P	60 - 150
Silvex	113	111	P/P	50 - 150
Silvex	93.8	119	P/P	50 - 150
Thiamethoxam	105	106	P/P	50 - 150
Thiamethoxam	96.5	94.2	P/P	50 - 150
Tolfenpyrad	102	102	P/P	60 - 150
Tolfenpyrad	99.7	96.1	P/P	60 - 150
Triclopyr	83.7	99.3	P/P	50 - 150
Triclopyr	96.6	90.5	P/P	50 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A119901
Included Lab Sample IDs: 2417677, 2417678

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A119925
Included Lab Sample IDs: 2417677, 2417678, 2417682

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	98.4	P/P	90 - 110
Ammonia-N	98.7	100	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A119927
Included Lab Sample IDs: 2417675, 2417676, 2417681

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	101	P/P	90 - 110
Sulfate	99.6	100	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A119928
Included Lab Sample IDs: 2417741, 2417742

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.2	98.5	P/P	90 - 110
Antimony	101	99.7	P/P	90 - 110
Arsenic	98.9	98.3	P/P	90 - 110
Barium	99.2	97.5	P/P	90 - 110
Beryllium	97.0	97.5	P/P	90 - 110
Boron	97.3	98.3	P/P	90 - 110
Cadmium	98.9	98.0	P/P	90 - 110
Chromium	97.9	98.7	P/P	90 - 110
Cobalt	102	102	P/P	90 - 110
Copper	97.4	97.8	P/P	90 - 110
Lead	103	104	P/P	90 - 110
Molybdenum	97.9	97.0	P/P	90 - 110
Nickel	98.0	98.4	P/P	90 - 110
Selenium	98.6	98.1	P/P	90 - 110
Silver	103	104	P/P	90 - 110
Thallium	104	103	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A119941
Included Lab Sample IDs: 2417675, 2417676, 2417681

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.4	94.6	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: SM 4500-F- C-2011
Run ID: A119941
Included Lab Sample IDs: 2417675, 2417676, 2417681

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	104	105	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A119946
Included Lab Sample IDs: 2417677, 2417678, 2417682

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.2	97.0	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A119952
Included Lab Sample IDs: 2417741, 2417742

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Manganese	103	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A119996
Included Lab Sample IDs: 2417677, 2417678, 2417682

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

Reference Method: EPA 8270E
Run ID: A120025
Included Lab Sample IDs: 2417739

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	105		P	80 - 120
Alpha-Chlordane	89.9		P	80 - 120
Beta-BHC	112		P	80 - 120
Beta-Cyfluthrin	95.0		P	80 - 120
Bifenthrin	102		P	80 - 120
Chlorothalonil	94.0		P	80 - 120
Cis-Nonachlor	86.7		P	80 - 120
Cypermethrin	108		P	80 - 120
Dacthal	110		P	80 - 120
DDD-p,p'	105		P	80 - 120
DDE-p,p'	107		P	80 - 120
DDT-p,p'	95.3		P	80 - 120
Delta-BHC	104		P	80 - 120
Deltamethrin	81.7		P	80 - 120
Dichlobenil	107		P	80 - 120
Dicofol	88.8		P	80 - 120
Dieldrin	104		P	80 - 120
Endosulfan I	98.8		P	80 - 120
Endosulfan II	105		P	80 - 120
Endosulfan Sulfate	86.2		P	80 - 120
Endrin	93.7		P	80 - 120
Endrin Aldehyde	100		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A120025
Included Lab Sample IDs: 2417739

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endrin Ketone	118		P	80 - 120
Esfenvalerate	99.7		P	80 - 120
Ethalfluralin	99.5		P	80 - 120
Fenpropathrin	83.8		P	80 - 120
Gamma-BHC	105		P	80 - 120
Gamma-Chlordane	108		P	80 - 120
Heptachlor	110		P	80 - 120
Heptachlor Epoxide	92.7		P	80 - 120
Hexachlorobenzene	104		P	80 - 120
Kepone	85.6		P	80 - 120
Lambda-Cyhalothrin	105		P	80 - 120
Methoprene	106		P	80 - 120
Methoxychlor	105		P	80 - 120
MGK-264	107		P	80 - 120
Mirex	82.6		P	80 - 120
Oxychlordane	107		P	80 - 120
Permethrin	110		P	80 - 120
Phenothrin	87.4		P	80 - 120
Piperonyl Butoxide	91.0		P	80 - 120
Prallethrin	101		P	80 - 120
Tau-Fluvalinate	94.2		P	80 - 120
Tetramethrin	102		P	80 - 120
Trans-Nonachlor	69.6*		F	80 - 120
Triclosan Methyl	87.9		P	80 - 120
Trifluralin	94.6		P	80 - 120

Reference Method: EPA 8270E
Run ID: A120027
Included Lab Sample IDs: 2417740

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	96.2		P	80 - 120
Avobenzone	96.1		P	80 - 120
Dechlorane 602	103		P	80 - 120
Dechlorane 603	101		P	80 - 120
Dechlorane Plus	93.6		P	80 - 120
Hexabromobenzene	97.2		P	80 - 120
Octinoxate	92.7		P	80 - 120
Oxybenzone	96.5		P	80 - 120
PBB-153	97.3		P	80 - 120
PBDE-47	94.3		P	80 - 120
PBDE-99	97.4		P	80 - 120
Pentabromotoluene	95.9		P	80 - 120
Tetradecachloro-m-terphenyl	85.0		P	80 - 120
Tri-o-cresyl Phosphate	95.7		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	87.2		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	91.3		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	91.0		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A120028
Included Lab Sample IDs: 2417682

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A120038
Included Lab Sample IDs: 2417677, 2417678, 2417682

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	95.3	P/P	90 - 110
Kjeldahl Nitrogen	95.3	91.0	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A120084
Included Lab Sample IDs: 2417741, 2417742

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	98.1	P/P	90 - 110
Calcium	98.1	96.8	P/P	90 - 110
Iron	98.8	97.9	P/P	90 - 110
Iron	99.9	98.8	P/P	90 - 110
Magnesium	98.1	97.0	P/P	90 - 110
Magnesium	99.3	98.1	P/P	90 - 110
Potassium	95.5	95.0	P/P	90 - 110
Potassium	96.3	95.5	P/P	90 - 110
Sodium	96.9	96.2	P/P	90 - 110
Sodium	99.0	96.9	P/P	90 - 110
Strontium	101	101	P/P	90 - 110
Strontium	102	101	P/P	90 - 110
Tin	100	102	P/P	90 - 110
Tin	102	96.0	P/P	90 - 110
Titanium	100	99.7	P/P	90 - 110
Titanium	99.7	95.5	P/P	90 - 110
Vanadium	100	100	P/P	90 - 110
Vanadium	100	96.8	P/P	90 - 110
Zinc	101	102	P/P	90 - 110
Zinc	102	97.3	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A120101
Included Lab Sample IDs: 2417739

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	108		P	80 - 120
PCB-1260	97.3		P	80 - 120

Reference Method: EPA 8276
Run ID: A120127
Included Lab Sample IDs: 2417739

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	86.9		P	80 - 120
Toxaphene	80.7		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A120203
Included Lab Sample IDs: 2417740

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	98.2		P	80 - 120
Alachlor	98.7		P	80 - 120
Ametryn	115		P	80 - 120
Atrazine	99.3		P	80 - 120
Atrazine Desethyl	103		P	80 - 120
Azinphos Methyl	83.5		P	80 - 120
Azoxystrobin	94.2		P	80 - 120
Bromacil	117		P	80 - 120
Butylate	102		P	80 - 120
Caffeine	102		P	80 - 120
Carbophenothion	107		P	80 - 120
Carfentrazone Ethyl	117		P	80 - 120
Chlorfenapyr	118		P	80 - 120
Chlorpyrifos Ethyl	111		P	80 - 120
Chlorpyrifos Methyl	110		P	80 - 120
Coumaphos	99.5		P	80 - 120
Cyanazine	88.2		P	80 - 120
Cyprodinil	91.0		P	80 - 120
Demeton	107		P	80 - 120
Diazinon	95.9		P	80 - 120
Difenoconazole	82.1		P	80 - 120
Dimethenamid	94.0		P	80 - 120
Dimethomorph	93.7		P	80 - 120
Disulfoton	102		P	80 - 120
Dithiopyr	111		P	80 - 120
EPTC	101		P	80 - 120
Ethion	91.3		P	80 - 120
Ethoprop	90.7		P	80 - 120
Etridiazole	115		P	80 - 120
Fenamiphos	115		P	80 - 120
Fenbuconazole	116		P	80 - 120
Fipronil	126*		F	80 - 120
Fipronil Desulfinyl	116		P	80 - 120
Fipronil Sulfide	112		P	80 - 120
Fipronil Sulfone	116		P	80 - 120
Fluazifop-P-butyl	133*		F	80 - 120
Fludioxonil	106		P	80 - 120
Flumioxazin	91.1		P	80 - 120
Flutolanil	117		P	80 - 120
Fluxapyroxad	88.6		P	80 - 120
Fonofos	104		P	80 - 120
Hexazinone	102		P	80 - 120
Imazalil	106		P	80 - 120
Iprodione	112		P	80 - 120
Loratadine	75.7*		F	80 - 120
Malathion	101		P	80 - 120
Metalaxyl	99.8		P	80 - 120
Metolachlor	88.7		P	80 - 120
Metribuzin	85.1		P	80 - 120
Mevinphos	87.6		P	80 - 120
Molinate	109		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A120203
Included Lab Sample IDs: 2417740

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Myclobutanil	96.0		P	80 - 120
Naled	93.6		P	80 - 120
Napropamide	118		P	80 - 120
Norflurazon	92.1		P	80 - 120
Oxadiazon	114		P	80 - 120
Oxyfluorfen	107		P	80 - 120
Parathion Ethyl	89.1		P	80 - 120
Parathion Methyl	114		P	80 - 120
Pendimethalin	89.8		P	80 - 120
Phenytoin	111		P	80 - 120
Phorate	85.8		P	80 - 120
Prodiamine	120		P	80 - 120
Prometon	104		P	80 - 120
Prometryn	93.7		P	80 - 120
Pronamide	99.5		P	80 - 120
Propanil	99.4		P	80 - 120
Propargite	93.9		P	80 - 120
Propiconazole	88.0		P	80 - 120
Pyraflufen Ethyl	92.3		P	80 - 120
Pyridaben	91.4		P	80 - 120
Pyriproxyfen	84.8		P	80 - 120
Simazine	118		P	80 - 120
Stirophos	123*		F	80 - 120
Sulfentrazone	114		P	80 - 120
Tebuconazole	107		P	80 - 120
Terbufos	108		P	80 - 120
Terbuthylazine	95.7		P	80 - 120
Thiobencarb	84.9		P	80 - 120
Triadimefon	93.9		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		
						LCS	SMP	MS
DEP SOP: NU-094-1	Color (true)	101					5.21	
EPA 180.1 Rev. 2.0	Turbidity	98.7					11.0	
EPA 200.7 Rev. 4.4	Calcium	104	105	103	99.1			1.83
	Iron	105	106	102	102			3.82
	Magnesium	104	105	101	102			3.48
	Potassium	101	106	103	100			2.40
	Sodium	104	105	102	100			2.14
	Strontium	101	101	98.8	99.4			2.13
	Tin	100	98.5	98.1	98.2			0.385
	Titanium	99.7	101	97.6	98.3			3.04
	Vanadium	100	101	98.2	99.9			2.69
	Zinc	100	99.9	98.0	99.8			1.94
EPA 200.8 Rev. 5.4	Aluminum	99.2	97.5	98.6	99.4			0.939
	Antimony	102	99.1	100	101			1.38
	Arsenic	98.6	96.6	97.3	97.9			0.751
	Barium	100	99.2	100	98.2			0.976
	Beryllium	93.2	91.8	95.1	95.3			3.37
	Boron	102	102	102	102			0.487
	Cadmium	97.3	96.4	95.7	96.8			0.764
	Chromium	94.9	95.6	96.8	97.9			1.27
	Cobalt	101	100	101	101			0.449
	Copper	97.1	98.1	98.0	97.7			0.132
	Lead	103	102	102	99.6			0.350
	Manganese	101	99.5	102	101			2.36
	Molybdenum	96.9	94.7	96.2	97.4			1.52
	Nickel	96.9	96.9	96.9	98.0			0.0722
	Selenium	98.3	96.2	97.5	97.8			1.33
	Silver	105	104	104	105			0.139
	Thallium	98.7	102	103	99.6			1.08
EPA 300.0 Rev. 2.1	Chloride	101	96.5	103			0.613	
	Sulfate	99.6	96.3	100			0.693	
EPA 350.1 Rev. 2.0	Ammonia-N	96.8	102	104				1.38
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	102	105				1.72
EPA 353.2 Rev. 2.0	NO2NO3-N	105	105	105				0.0
EPA 365.1 Rev. 2.0	Total-P	97.7	97.2	98.6				1.41
	Total-P	100	100	101				0.290
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	107	130	113				13.8
	Acetochlor	80.6	70.3	103				19.0
	Alachlor	88.2	80.8	78.5				2.84
	Aldrin	58.2	65.6	59.8				9.34
	Alpha-BHC	76.2	81.6	82.3				0.818
	Alpha-Chlordane	71.6	55.7	62.5				11.6
	Ametryn	107	150	143				4.65
	Atrazine	96.1						10.6
	Atrazine Desethyl	88.1	115	111				2.28
	Avobenzone	121	132	121				8.68
	Azinphos Methyl	107	153	122				22.5
	Azoxystrobin	103	132	126				4.97
	Beta-BHC	130	85.3	75.8				9.11
	Beta-Cyfluthrin	49.7	74.5	72.1				3.25
	Bifenthrin	54.9	110	96.9				12.7
	Bromacil	104	108	114				5.35

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Butylate	55.5	58.2	55.0			5.78
	Caffeine	100	108	107			0.565
	Carbophenothion	102	125	106			16.3
	Carfentrazone Ethyl	115	138	126			9.06
	Chlorfenapyr	88.4	99.6	93.5			6.32
	Chlorothalonil	62.2	74.6	72.3			3.13
	Chlorpyrifos Ethyl	96.4	93.8	101			7.31
	Chlorpyrifos Methyl	94.6	87.8	90.0			2.55
	Cis-Nonachlor	65.6	50.7	63.2			21.9
	Coumaphos	71.4	179	145			21.0
	Cyanazine	193	213	180			16.8
	Cypermethrin	54.1	74.4	74.8			0.521
	Cyprodinil	107	103	78.3			26.9
	Dacthal	111	75.8	81.9			7.63
	DDD-p,p'	61.6	70.4	78.5			9.47
	DDE-p,p'	52.2	76.7	77.5			1.11
	DDT-p,p'	81.1	72.5	66.9			4.66
	Dechlorane 602	98.0	121	113			6.80
	Dechlorane 603	134	160	156			2.43
	Dechlorane Plus	99.8	97.6	98.0			0.446
	Delta-BHC	79.2	104	93.5			11.1
	Deltamethrin	62.2	77.5	79.0			1.98
	Demeton	88.1	98.1	93.3			5.03
	Diazinon	110	110	114			3.94
	Dichlobenil	68.7	40.2	43.5			7.73
	Dicofol	53.4	74.4	69.9			6.19
	Dieldrin	69.5	66.6	67.5			1.25
	Difenoconazole	129	229	200			13.9
	Dimethenamid	91.5	89.4	96.3			7.49
	Dimethomorph	191	165	184			10.4
	Disulfoton	101	111	107			4.41
	Dithiopyr	103	111	110			1.73
	Endosulfan I	84.0	75.0	75.0			0.0135
	Endosulfan II	52.2	63.2	61.1			3.42
	Endosulfan Sulfate	89.7	71.7	71.4			0.496
	Endrin	68.7	62.4	57.6			8.04
	Endrin Aldehyde	94.1	53.3	69.5			26.4
	Endrin Ketone	83.4	66.1	70.9			6.96
	EPTC	51.5	49.4	44.8			9.68
	Esfenvalerate	104	119	108			9.76
	Ethalfluralin	59.3	69.3	71.5			3.01
	Ethion	83.4	93.8	81.4			14.1
	Ethoprop	95.6	101	100			0.229
	Etridiazole	70.0	83.4	66.1			23.1
	Fenamiphos	92.8	82.4	91.8			10.8
	Fenbuconazole	70.7	108	95.7			11.7
	Fenpropathrin	93.2	100	103			2.89
	Fipronil	106	118	106			10.6
	Fipronil Desulfinyl	100	111	99.5			10.7
	Fipronil Sulfide	93.5	94.9	95.4			0.573
	Fipronil Sulfone	83.8	95.7	101			5.81
	Fluazifop-P-butyl	96.3	80.5	94.7			16.3
	Fludioxonil	89.7	91.7	105			13.5
	Flumioxazin	114	214	194			9.81

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Flutolanil	93.6	96.1	99.9			3.88
	Fluxapyroxad	103	123	112			8.32
	Fonofos	93.8	90.1	87.3			3.09
	Gamma-BHC	82.6	88.7	93.8			5.67
	Gamma-Chlordane	71.6	71.0	65.1			8.70
	Heptachlor	71.5	75.6	71.1			6.14
	Heptachlor Epoxide	79.7	50.0	63.9			19.7
	Hexabromobenzene	133	145	139			4.15
	Hexachlorobenzene	54.2	68.3	72.7			6.14
	Hexazinone	98.8	108	109			1.22
	Imazalil	101	107	94.7			12.1
	Iprodione	118	94.9	190			66.9
	Kepone	115	85.2	80.5			5.66
	Lambda-Cyhalothrin	58.7	125	113			9.96
	Loratadine	181	137	154			11.1
	Malathion	101	115	105			8.67
	Metalaxyl	97.4	111	89.2			21.5
	Methoprene	33.6	48.6	54.9			12.3
	Methoxychlor	68.7	82.5	70.3			15.9
	Metolachlor	101	80.0	98.7			8.37
	Metribuzin	95.8	104	105			0.823
	Mevinphos	97.1	143	110			26.5
	MGK-264	59.0	56.7	68.0			18.0
	Mirex	40.2	60.5	59.2			2.05
	Molinate	57.3	54.2	60.1			10.3
	Myclobutanil	98.0	118	102			14.5
	Naled	48.5	44.9	46.4			3.26
	Napropamide	85.0	78.1	103			27.1
	Norflurazon	62.3	120	104			14.2
	Octinoxate	123	128	126			1.36
	Oxadiazon	94.6	106	95.2			10.7
	Oxybenzone	128	141	136			3.25
	Oxychlordane	87.0	58.9	73.1			21.5
	Oxyfluorfen	112	118	121			2.79
	Parathion Ethyl	103	106	96.7			9.05
	Parathion Methyl	104	96.6	82.6			15.6
	PBB-153	130	149	144			3.48
	PBDE-47	112	121	118			2.65
	PBDE-99	96.6	117	109			6.90
	PCB-1016	66.4	54.0	56.2			3.89
	PCB-1260	73.1	46.3	45.7			1.23
	Pendimethalin	112	123	105			16.2
	Pentabromotoluene	123	132	123			7.27
	Permethrin	48.1	55.6	56.9			1.88
	Phenothrin	41.4	70.1	76.5			8.74
	Phenytoin	22.8	41.7	36.9			12.1
	Phorate	87.6	127	112			12.7
	Piperonyl Butoxide	65.8	84.7	76.0			10.8
	Prallethrin	51.9	57.6	53.8			6.76
	Prodiamine	48.2	55.7	53.0			4.96
	Prometon	98.7	102	99.2			2.66
	Prometryn	118	111	116			4.96
	Pronamide	114	131	117			11.8
	Propanil	119	138	122			12.4

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Propargite	65.7	92.3	80.8			13.3
	Propiconazole	89.1	124	105			17.2
	Pyraflufen Ethyl	97.7	126	111			12.9
	Pyridaben	125	171	137			21.8
	Pyriproxyfen	85.5	134	108			20.8
	Simazine	91.1	96.2	95.6			0.694
	Stirophos	69.2	53.1	83.0			44.0
	Sulfentrazone	77.2	119	87.3			30.4
	Tau-Fluvalinate	71.1	111	102			8.56
	Tebuconazole	70.0	98.0	91.2			7.20
	Terbufos	109	121	116			3.50
	Terbuthylazine	86.5	90.5	91.7			1.32
	Tetradecachloro-m-terphenyl	141	126	135			6.71
	Tetramethrin	57.6	79.3	79.5			0.175
	Thiobencarb	93.6	97.1	91.4			5.54
	Trans-Nonachlor	55.5	47.1	57.2			19.2
	Tri-o-cresyl Phosphate	123	129	129			0.0811
	Triadimefon	96.6	114	90.4			23.2
	Triclosan Methyl	76.1	59.8	67.8			12.5
	Trifluralin	57.6	74.2	69.2			6.90
	Tris(1-chloro-2-propyl) phosphate (TCPP)	121	108	104			4.34
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	111	120	121			1.26
	Tris(2-chloroethyl) phosphate (TCEP)	117	120	121			0.582
EPA 8276	Chlordane	79.3	46.4	43.3			6.92
	Toxaphene	95.2	29.6	26.6			5.57
EPA 8321B	2,4-D	106	108	100			7.28
	2,4-D	108	113	87.7			15.0
	2,4,5-T	94.0	110	91.1			19.1
	2,4,5-T	106	113	89.8			22.7
	3-Hydroxycarbofuran	54.2	68.7	70.1			1.93
	Acesulfame K	146	135	135			0.395
	Acetaminophen	49.1	51.3	49.6			3.29
	Acetaminophen	61.5	69.2	61.5			11.8
	Acetamiprid	79.2	86.8	67.5			24.9
	Acetamiprid	92.1	77.4	68.6			12.0
	Afidopyropen	62.2	54.5	70.5			25.5
	Afidopyropen	87.5	76.6	74.4			2.81
	Aldicarb	40.7	59.6	53.7			10.5
	Aldicarb Sulfone	77.9	86.2	83.5			3.18
	Aldicarb Sulfoxide	93.0	31.8	25.2			23.2
	AMPA	81.6	74.7	71.7			4.02
	Bentazon	110	104	110			5.26
	Bentazon	115	69.8	53.6			16.6
	Benzovindiflupyr	64.4	94.4	85.9			9.51
	Benzovindiflupyr	76.0	85.6	85.4			0.292
	Carbamazepine	67.4	85.8	73.3			15.8
	Carbamazepine	86.3	69.9	58.0			18.6
	Carbaryl	77.8	69.2	53.9			25.0
	Carbofuran	69.8	62.4	63.4			1.54
	Clothianidin	84.1	91.3	96.8			5.86
	Clothianidin	91.1	102	82.0			21.8

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Dinotefuran	86.0	95.1	89.8			5.66
	Dinotefuran	95.6	81.0	69.2			14.0
	Diuron	51.7	46.7	74.1			45.4
	Diuron	89.6	43.3	79.4			52.2
	Endothall	97.0	101	102			0.867
	Fenuron	72.2	73.4	70.7			3.80
	Fenuron	87.0	65.0	59.7			8.42
	Fluridone	73.1	73.8	73.5			0.429
	Fluridone	87.8	77.4	74.6			3.68
	Glufosinate	102	92.8	94.6			1.92
	Glyphosate	107	90.5	92.4			2.11
	Hydrocodone	86.2	82.8	84.7			2.30
	Hydrocodone	95.6	71.1	66.2			7.16
	Ibuprofen	85.3	64.3	79.9			21.7
	Ibuprofen	92.1	83.9	70.1			18.0
	Imazapyr	88.9	113	107			5.47
	Imazapyr	92.4	90.4	79.7			10.3
	Imidacloprid	79.6	98.8	126			22.2
	Imidacloprid	90.5	125	109			13.4
	Linuron	82.7	63.6	65.4			2.75
	Linuron	86.0	72.4	67.4			7.17
	Mandestrobin	78.8	91.3	87.2			4.60
	Mandestrobin	96.3	90.9	86.8			4.59
	MCPP	95.8	112	105			6.42
	MCPP	106	124	109			13.5
	Methiocarb	65.1	78.8	91.0			14.4
	Methomyl	76.4	74.8	70.5			5.91
	Naproxen	70.7	75.3	67.2			11.3
	Naproxen	76.8	66.7	59.8			10.9
	Oxamyl	70.9	76.1	80.3			5.47
	Primidone	77.1	90.0	68.7			26.8
	Primidone	85.8	81.1	66.9			19.2
	Propoxur	66.3	64.7	67.8			4.70
	Pyraclostrobin	87.0	89.3	89.7			0.421
	Pyraclostrobin	93.9	83.4	77.3			7.49
	Silvex	96.2	109	97.2			11.1
	Silvex	105	93.1	79.3			16.0
	Sucralose	120	124	123			0.971
	Thiamethoxam	83.2	98.5	102			3.19
	Thiamethoxam	87.3	88.2	95.1			7.60
	Tolfenpyrad	60.4	56.0	54.2			3.28
	Tolfenpyrad	66.8	58.9	48.4			19.5
	Triclopyr	93.5	121	96.7			22.2
	Triclopyr	107	108	93.2			14.6
SM 2320 B-2011	Total Alkalinity	97.3				1.34	
SM 2540 C-2015	TDS	96.6				2.04	
SM 2540 D-2015	TSS	95.8					
SM 4500-F- C-2011	Fluoride	102	101	101			0.476
SM 5310 B-2011	Organic Carbon	93.5	91.3	96.2			3.30

Reference Method Descriptions

Method	Description	Associated Samples

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2417675, 2417676, 2417681
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2417675, 2417676, 2417681
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2417741, 2417742
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2417741, 2417742
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2417675, 2417676, 2417681
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2417675, 2417676, 2417681
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2417677, 2417678, 2417682
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2417677, 2417678, 2417682
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2417677, 2417678, 2417682
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2417677, 2417678, 2417682
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2417740
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2417739
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2417740
EPA 8270E	PCBs in water matrices by GC/MS/MS	2417739
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2417739
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2417737
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2417735, 2417736, 2417738
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2417675, 2417676, 2417681
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2417741, 2417742
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2417675, 2417676, 2417681
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2417675, 2417676, 2417681
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2417675, 2417676, 2417681
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2417677, 2417678, 2417682

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	06/15/2023			06/15/2023 14:52	Chandler E Cox	2417676
	06/15/2023			06/15/2023 14:53	Chandler E Cox	2417681
	06/15/2023			06/15/2023 15:16	Chandler E Cox	2417675
EPA 180.1 Rev. 2.0	06/15/2023			06/15/2023 13:32	Alexis Price	2417675
	06/15/2023			06/15/2023 13:33	Alexis Price	2417676, 2417681
EPA 200.7 Rev. 4.4	06/15/2023	06/19/2023 12:45	George D Taylor	06/28/2023 20:38	McKinley C Carter	2417741
	06/15/2023	06/19/2023 12:45	George D Taylor	06/28/2023 21:12	McKinley C Carter	2417742
EPA 200.8 Rev. 5.4	06/15/2023	06/19/2023 12:45	George D Taylor	06/20/2023 19:45	Conrad Hartmann	2417741
	06/15/2023	06/19/2023 12:45	George D Taylor	06/20/2023 19:54	Conrad Hartmann	2417742
	06/15/2023	06/19/2023 12:45	George D Taylor	06/21/2023 23:19	Emily M Philpot	2417741
	06/15/2023	06/19/2023 12:45	George D Taylor	06/21/2023 23:28	Emily M Philpot	2417742
EPA 300.0 Rev. 2.1	06/15/2023			06/21/2023 19:47	James L Waggerby	2417681
	06/15/2023			06/21/2023 21:02	James L Waggerby	2417675
	06/15/2023			06/21/2023 21:17	James L Waggerby	2417676
EPA 350.1 Rev. 2.0	06/15/2023			06/20/2023 15:56	Khloe J Berg	2417678
	06/15/2023			06/20/2023 15:58	Khloe J Berg	2417682
	06/15/2023			06/20/2023 16:16	Khloe J Berg	2417677
EPA 351.2 Rev. 2.0	06/15/2023	06/23/2023 09:33	Dana G. Hughes	06/26/2023 15:27	Ping Hua	2417677
	06/15/2023	06/23/2023 09:33	Dana G. Hughes	06/26/2023 15:31	Ping Hua	2417678
	06/15/2023	06/23/2023 09:33	Dana G. Hughes	06/26/2023 15:33	Ping Hua	2417682
EPA 353.2 Rev. 2.0	06/15/2023			06/23/2023 11:59	Beverly Y. Sanders	2417677
	06/15/2023			06/23/2023 12:01	Beverly Y. Sanders	2417678
	06/15/2023			06/23/2023 12:02	Beverly Y. Sanders	2417682
EPA 365.1 Rev. 2.0	06/15/2023	06/19/2023 15:25	Adam P Silver	06/20/2023 09:58	James L Waggerby	2417677
	06/15/2023	06/19/2023 15:25	Adam P Silver	06/20/2023 09:59	James L Waggerby	2417678
	06/15/2023	06/23/2023 15:29	Adam P Silver	06/26/2023 12:29	Simonne.V. Calhoun	2417682
EPA 8270E	06/15/2023	06/21/2023 08:00	Fe-Val Siddell	06/23/2023 22:16	Arthur Maknenko	2417740
	06/15/2023	06/21/2023 08:00	Fe-Val Siddell	07/06/2023 16:35	Vandana T. Nagar	2417740
	06/15/2023	06/21/2023 08:00	Rasheda Ghaffari	06/23/2023 00:46	Lipi Saha	2417739
	06/15/2023	06/21/2023 08:00	Rasheda Ghaffari	06/23/2023 21:50	Michael Poppell	2417739
EPA 8276	06/15/2023	06/21/2023 08:00	Rasheda Ghaffari	06/24/2023 12:29	Lipi Saha	2417739
EPA 8321B	06/15/2023	06/16/2023 12:00	Touraj Touran	06/16/2023 16:29	Touraj Touran	2417736
	06/15/2023	06/16/2023 12:00	Touraj Touran	06/16/2023 16:43	Touraj Touran	2417738
	06/15/2023	06/16/2023 12:00	Touraj Touran	06/16/2023 23:02	Touraj Touran	2417735
	06/15/2023	06/16/2023 12:00	Touraj Touran	06/18/2023 20:02	Touraj Touran	2417735
	06/15/2023	06/16/2023 12:00	Touraj Touran	06/18/2023 20:15	Touraj Touran	2417736
	06/15/2023	06/16/2023 12:00	Touraj Touran	06/18/2023 20:28	Touraj Touran	2417738
	06/15/2023	06/19/2023 13:00	Hoor Shaik	06/20/2023 22:23	Juyoung Kim	2417735
	06/15/2023	06/20/2023 08:30	Hoor Shaik	06/21/2023 01:50	Juyoung Kim	2417737
	06/15/2023	06/20/2023 09:00	Hoor Shaik	06/21/2023 04:20	Juyoung Kim	2417736

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	06/15/2023	06/20/2023 09:00	Hoor Shaik	06/21/2023 04:39	Juyoung Kim	2417738
SM 2320 B-2011	06/15/2023			06/21/2023 09:39	Dale L. Simmons	2417675
	06/15/2023			06/21/2023 09:53	Dale L. Simmons	2417676
	06/15/2023			06/21/2023 10:05	Dale L. Simmons	2417681
SM 2340 B-2011	06/15/2023			06/28/2023 20:38	McKinley C Carter	2417741
	06/15/2023			06/28/2023 21:12	McKinley C Carter	2417742
SM 2540 C-2015	06/15/2023			06/19/2023 14:50	Dana G. Hughes	2417675, 2417676, 2417681
SM 2540 D-2015	06/15/2023			06/19/2023 14:50	Dana G. Hughes	2417675, 2417676, 2417681
SM 4500-F- C-2011	06/15/2023			06/21/2023 09:39	Dale L. Simmons	2417675
	06/15/2023			06/21/2023 09:53	Dale L. Simmons	2417676
	06/15/2023			06/21/2023 10:05	Dale L. Simmons	2417681
SM 5310 B-2011	06/15/2023			06/20/2023 19:02	Elise M. Gillis	2417677
	06/15/2023			06/20/2023 19:16	Elise M. Gillis	2417678
	06/15/2023			06/20/2023 19:32	Elise M. Gillis	2417682