Chemical Analysis Report

CEN-DIST-2022-12-14-03

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

Event Description: **Lake Ann**
Request ID: **RQ-2022-12-12-38**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Matthew Bearden

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Certified by: Colin Wright, Program Administrator

Date Certified: 10-JAN-2023 10:45

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: Lake Ann @ Center **Collection Date/Time: 12/13/2022 12:04**

Field ID: G2CE0097 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2375137	DEP SOP: NU-094-1	Color (true)	28		PCU	P423541	
	EPA 180.1 Rev. 2.0	Turbidity	3.4		NTU	P423536	
	EPA 300.0 Rev. 2.1	Chloride	15		mg Cl/L	P423714	
		Sulfate	11		mg SO4/L	P423717	
	SM 2320 B-2011	Total Alkalinity	32		mg CaCO3/L	P423945	
	SM 2540 C-2015	TDS	71		mg/L	P423893	
	SM 2540 D-2015	TSS	6	I	mg/L	P423786	
	SM 4500-F- C-2011	Fluoride	0.037	I	mg F/L	P423814	
2375138	EPA 350.1 Rev. 2.0	Ammonia-N	0.016		mg N/L	P424222	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.77		mg N/L	P423750	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.024		mg N/L	P423592	
	EPA 365.1 Rev. 2.0	Total-P	0.028		mg P/L	P423568	
	SM 5310 B-2011	Organic Carbon	8.0		mg C/L	P423698	
2375139	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	UJ	mg P/L	P423550	CCV
2375143	EPA 8321B	Aldicarb	0.020	U	ug/L	P423629	
		Aldicarb Sulfone	0.0020	U	ug/L	P423629	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P423629	
		Carbaryl	0.0020	U	ug/L	P423629	
		Carbofuran	0.0020	U	ug/L	P423629	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P423629	
		Methiocarb	0.0020	U	ug/L	P423629	
		Methomyl	0.0020	U	ug/L	P423629	
		Oxamyl	0.0020	U	ug/L	P423629	
		Propoxur	0.0020	U	ug/L	P423629	
2375144		2,4-D	0.017		ug/L	P423628	
		Acesulfame K	0.10	U	ug/L	P423561	
		2,4,5-T	0.0040	U	ug/L	P423628	
		AMPA	0.10	U	ug/L	P423561	
		Acetaminophen	0.0080	U	ug/L	P423628	
		Acetamiprid	0.0020	U	ug/L	P423628	
		Endothall	0.25	U	ug/L	P423561	
		Glufosinate	0.10	U	ug/L	P423561	
		Glyphosate	0.10	U	ug/L	P423561	
		Afidopyropen	0.0020	U	ug/L	P423628	
		Bentazon	0.054		ug/L	P423628	
		Sucralose	1.3		ug/L	P423561	
		Benzovindiflupyr	0.0020	U	ug/L	P423628	
		Carbamazepine	8.0E-04	U	ug/L	P423628	
		Clothianidin	0.015		ug/L	P423628	
		Dinotefuran	0.0083		ug/L	P423628	
		Diuron	0.0023	I	ug/L	P423628	
		Fenuron	0.032	U	ug/L	P423628	
		Fluridone	0.0045		ug/L	P423628	

Field ID: G2CE0097 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2375144	EPA 8321B	Imazapyr	0.13		ug/L	P423628	
		Hydrocodone	0.0020	U	ug/L	P423628	
		Ibuprofen	0.20	U	ug/L	P423628	
		Imidacloprid	0.015		ug/L	P423628	
		Linuron	0.0040	U	ug/L	P423628	
		Mandestrobin	0.0020	U	ug/L	P423628	
		MCPP	0.0040	U	ug/L	P423628	
		Naproxen	0.0080	U	ug/L	P423628	
		Primidone	0.0072	I	ug/L	P423628	
		Pyraclostrobin	0.0020	U	ug/L	P423628	
		Silvex	0.0040	U	ug/L	P423628	
		Thiamethoxam	0.0024	I	ug/L	P423628	
		Tolfenpyrad	0.0020	U	ug/L	P423628	
		Triclopyr	0.0040	U	ug/L	P423628	
2375145	EPA 8270E	Aldrin	0.68	U	ng/L	P423595	
		Alpha-BHC	0.11	U	ng/L	P423595	
		Alpha-Chlordane	0.21	U	ng/L	P423595	
		PCB-1016	2.1	U	ng/L	P423595	
		Beta-BHC	0.11	U	ng/L	P423595	
		PCB-1221	2.1	U	ng/L	P423595	
		Beta-Cyfluthrin	1.3	U	ng/L	P423595	
		PCB-1232	2.1	U	ng/L	P423595	
		Bifenthrin	0.53	U	ng/L	P423595	
		PCB-1242	2.1	U	ng/L	P423595	
		PCB-1248	2.1	U	ng/L	P423595	
		Chlorothalonil	1.3	U	ng/L	P423595	MS
		PCB-1254	2.1	U	ng/L	P423595	
		Cis-Nonachlor	0.21	U	ng/L	P423595	
		PCB-1260	2.1	U	ng/L	P423595	
		Cypermethrin	1.6	U	ng/L	P423595	
		Dacthal	0.16	U	ng/L	P423595	
		DDD-p,p'	0.26	U	ng/L	P423595	
		DDE-p,p'	0.21	U	ng/L	P423595	
		DDT-p,p'	0.26	U	ng/L	P423595	
		Delta-BHC	0.42	U	ng/L	P423595	
		Deltamethrin	1.3	U	ng/L	P423595	
		Dichlobenil	0.26	U	ng/L	P423595	
		Dicofol	1.3	U	ng/L	P423595	
		Dieldrin	0.42	U	ng/L	P423595	
		Endosulfan I	0.42	U	ng/L	P423595	
		Endosulfan II	0.42	U	ng/L	P423595	MS
		Endosulfan Sulfate	0.32	U	ng/L	P423595	
		Endrin	0.42	U	ng/L	P423595	
		Endrin Aldehyde	0.79	U	ng/L	P423595	RPD
		Endrin Ketone	0.42	U	ng/L	P423595	

Field ID: G2CE0097 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2375145	EPA 8270E	Esfenvalerate	0.79	U	ng/L	P423595	
		Ethalfluralin	0.16	U	ng/L	P423595	
		Fenpropathrin	0.26	U	ng/L	P423595	
		Gamma-BHC	0.13	U	ng/L	P423595	
		Gamma-Chlordane	0.21	U	ng/L	P423595	
		Heptachlor	0.21	U	ng/L	P423595	
		Heptachlor Epoxide	0.26	U	ng/L	P423595	
		Hexachlorobenzene**	1.1	U	ng/L	P423595	
		Kepone	5.3	U	ng/L	P423595	
		Lambda-Cyhalothrin	0.79	U	ng/L	P423595	
		Methoprene	0.79	U	ng/L	P423595	
		Methoxychlor	0.32	U	ng/L	P423595	
		MGK-264	0.21	U	ng/L	P423595	
		Mirex	0.37	U	ng/L	P423595	
		Oxychlordane	0.32	U	ng/L	P423595	
		Permethrin	1.7	U	ng/L	P423595	
		Phenothrin	0.95	U	ng/L	P423595	
		Piperonyl Butoxide	0.18	I	ng/L	P423595	
		Prallethrin	2.1	U	ng/L	P423595	
		Tau-Fluvalinate	0.26	U	ng/L	P423595	
		Tetramethrin	0.79	U	ng/L	P423595	
		Trans-Nonachlor	0.21	U	ng/L	P423595	
		Triclosan Methyl	0.16	U	ng/L	P423595	
		Trifluralin	0.21	U	ng/L	P423595	
	EPA 8276	Chlordane	2.1	U	ng/L	P423595	
		Toxaphene	16	U	ng/L	P423595	
2375146	EPA 8270E	Oxybenzone**	18	I	ng/L	P423586	
		Acetochlor	0.24	U	ng/L	P423586	
		Octinoxate**	19	U	ng/L	P423586	
		Alachlor	0.24	U	ng/L	P423586	
		Avobenzone**	97	U	ng/L	P423586	
		Ametryn	1.5	I	ng/L	P423586	
		Atrazine	230		ng/L	P423586	
		PBDE-47**	3.9	U	ng/L	P423586	
		Atrazine Desethyl	5.3	I	ng/L	P423586	
		PBDE-99**	4.8	U	ng/L	P423586	
		Azinphos Methyl	1.9	U	ng/L	P423586	
		Tri-o-cresyl Phosphate**	5.8	U	ng/L	P423586	
		Azoxystrobin	1.6	I	ng/L	P423586	
		Bromacil	0.48	U	ng/L	P423586	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P423586	
		Butylate	0.39	U	ng/L	P423586	
		Dechlorane Plus**	29	U	ng/L	P423586	
		Caffeine**	15	I	ng/L	P423586	

Field ID: G2CE0097 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2375146	EPA 8270E	Carbophenothion	0.19	U	ng/L	P423586	
		Carfentrazone Ethyl	0.097	U	ng/L	P423586	
		Chlorfenapyr	0.17	U	ng/L	P423586	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P423586	
		Chlorpyrifos Methyl	0.048	UJ	ng/L	P423586	LCS, MS
		Coumaphos	0.48	U	ng/L	P423586	
		Cyanazine	3.2	U	ng/L	P423586	
		Cyprodinil	0.097	U	ng/L	P423586	
		Demeton	1.5	U	ng/L	P423586	
		Diazinon	0.12	U	ng/L	P423586	
		Difenoconazole	0.58	U	ng/L	P423586	
		Dimethenamid	0.097	U	ng/L	P423586	
		Dimethomorph	0.17	U	ng/L	P423586	
		Disulfoton	0.48	U	ng/L	P423586	
		Dithiopyr	0.61	U	ng/L	P423586	
		EPTC	1.2	U	ng/L	P423586	RPD
		Ethion	0.15	U	ng/L	P423586	
		Ethoprop	0.097	U	ng/L	P423586	MS
		Etridiazole	0.15	U	ng/L	P423586	RPD
		Fenamiphos	0.48	U	ng/L	P423586	
		Fenbuconazole	0.12	U	ng/L	P423586	
		Fipronil	0.55	I	ng/L	P423586	
		Fipronil Desulfinyl**	1.9		ng/L	P423586	
		Fipronil Sulfide	0.96		ng/L	P423586	
		Fipronil Sulfone	2.7		ng/L	P423586	
		Fluazifop-P-butyl	0.097	U	ng/L	P423586	
		Fludioxonil	0.12	U	ng/L	P423586	
		Flumioxazin	4.4	U	ng/L	P423586	
		Flutolanil	0.097	U	ng/L	P423586	
		Fluxapyroxad	0.11	I	ng/L	P423586	
		Fonofos	0.19	U	ng/L	P423586	MS
		Hexazinone	0.48	U	ng/L	P423586	
		Imazalil	0.73	U	ng/L	P423586	
		Iprodione	0.58	U	ng/L	P423586	
		Loratadine**	0.34	U	ng/L	P423586	
		Malathion	0.34	U	ng/L	P423586	
		Metalaxyl	0.88	I	ng/L	P423586	
		Metolachlor	0.34	U	ng/L	P423586	
		Metribuzin	1.5	U	ng/L	P423586	
		Mevinphos	1.0	U	ng/L	P423586	
		Molinate	0.29	U	ng/L	P423586	
		Myclobutanil	0.41	I	ng/L	P423586	
		Naled	1.5	U	ng/L	P423586	
		Napropamide	0.39	U	ng/L	P423586	
		Norflurazon	0.48	U	ng/L	P423586	

Field ID: G2CE0097 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2375146	EPA 8270E	Oxadiazon	2.4		ng/L	P423586	
		Oxyfluorfen	0.15	U	ng/L	P423586	
		Parathion Ethyl	0.24	UJ	ng/L	P423586	LCS, MS
		Parathion Methyl	0.53	UJ	ng/L	P423586	LCS, MS
		Pendimethalin	0.97	U	ng/L	P423586	
		Phenytoin**	3.4	U	ng/L	P423586	
		Phorate	0.51	U	ng/L	P423586	
		Prodiamine	0.17	U	ng/L	P423586	
		Prometon	0.87	U	ng/L	P423586	
		Prometryn	0.19	U	ng/L	P423586	
		Pronamide	0.15	U	ng/L	P423586	
		Propanil	0.12	U	ng/L	P423586	
		Propargite	1.5	U	ng/L	P423586	
		Propiconazole	2.2		ng/L	P423586	
		Pyraflufen Ethyl	0.24	U	ng/L	P423586	
		Pyridaben	0.75	I	ng/L	P423586	
		Pyriproxyfen	0.12	U	ng/L	P423586	
		Simazine	1.2	I	ng/L	P423586	
		Stirophos	0.12	U	ng/L	P423586	
		Sulfentrazone	5.3		ng/L	P423586	
		Tebuconazole	0.71	I	ng/L	P423586	
		Terbufos	0.097	U	ng/L	P423586	MS
		Terbuthylazine	0.41	U	ng/L	P423586	
		Thiobencarb	0.58	U	ng/L	P423586	
		Triadimefon	0.24	U	ng/L	P423586	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: Matrix spikes precision for chlorothalonil not assessed due to very low recoveries.
EPA 8270E: Results confirmed by re-extraction and re-analysis.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: FB **Collection Date/Time: 12/13/2022 12:20**

Field ID: FB_12132022 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2375140	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P423541	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P423536	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P423714	
		Sulfate	0.20	U	mg SO4/L	P423717	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P423945	
	SM 2540 C-2015	TDS	15	U	mg/L	P423892	
	SM 2540 D-2015	TSS	2	U	mg/L	P423785	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P423814	
2375141	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P424222	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P423750	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P423592	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P423568	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P423698	
2375147	EPA 8270E	Oxybenzone**	9.7	UQ	ng/L	P423959	
		Acetochlor	0.24	U	ng/L	P423586	
		Octinoxate**	19	UJ	ng/L	P423586	SUR
		Alachlor	0.24	U	ng/L	P423586	
		Avobenzone**	95	UJ	ng/L	P423586	SUR
		Ametryn	0.57	U	ng/L	P423586	
		Atrazine	0.24	U	ng/L	P423586	
		PBDE-47**	3.8	UJ	ng/L	P423586	SUR
		Atrazine Desethyl	1.4	U	ng/L	P423586	
		PBDE-99**	4.7	UJ	ng/L	P423586	SUR
		Azinphos Methyl	1.9	U	ng/L	P423586	
		Tri-o-cresyl Phosphate**	5.7	UJ	ng/L	P423586	SUR
		Azoxystrobin	0.47	U	ng/L	P423586	
		Bromacil	0.47	U	ng/L	P423586	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	11	UJ	ng/L	P423586	SUR
		Butylate	0.38	U	ng/L	P423586	
		Dechlorane Plus**	28	UJ	ng/L	P423586	SUR
		Caffeine**	7.1	U	ng/L	P423586	
		Carbophenothion	0.19	U	ng/L	P423586	
		Carfentrazone Ethyl	0.095	U	ng/L	P423586	
		Chlorfenapyr	0.17	U	ng/L	P423586	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P423586	
		Chlorpyrifos Methyl	0.047	UJ	ng/L	P423586	LCS, MS
		Coumaphos	0.47	U	ng/L	P423586	
		Cyanazine	3.1	U	ng/L	P423586	
		Cyprodinil	0.095	U	ng/L	P423586	
		Demeton	1.4	U	ng/L	P423586	
		Diazinon	0.12	U	ng/L	P423586	
		Difenoconazole	0.57	U	ng/L	P423586	
		Dimethenamid	0.095	U	ng/L	P423586	

Field ID: FB_12132022 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2375147	EPA 8270E	Dimethomorph	0.17	U	ng/L	P423586	
		Disulfoton	0.47	U	ng/L	P423586	
		Dithiopyr	0.59	U	ng/L	P423586	
		EPTC	1.2	U	ng/L	P423586	RPD
		Ethion	0.14	U	ng/L	P423586	
		Ethoprop	0.095	U	ng/L	P423586	MS
		Etridiazole	0.14	U	ng/L	P423586	RPD
		Fenamiphos	0.47	U	ng/L	P423586	
		Fenbuconazole	0.12	U	ng/L	P423586	
		Fipronil	0.24	U	ng/L	P423586	
		Fipronil Desulfinyl**	0.12	U	ng/L	P423586	
		Fipronil Sulfide	0.14	U	ng/L	P423586	
		Fipronil Sulfone	0.14	U	ng/L	P423586	
		Fluazifop-P-butyl	0.095	U	ng/L	P423586	
		Fludioxonil	0.12	U	ng/L	P423586	
		Flumioxazin	4.3	U	ng/L	P423586	
		Flutolanil	0.095	U	ng/L	P423586	
		Fluxapyroxad	0.095	U	ng/L	P423586	
		Fonofos	0.19	U	ng/L	P423586	MS
		Hexazinone	0.47	U	ng/L	P423586	
		Imazalil	0.71	U	ng/L	P423586	
		Iprodione	0.57	U	ng/L	P423586	
		Loratadine**	0.33	U	ng/L	P423586	
		Malathion	0.33	U	ng/L	P423586	
		Metalaxyl	0.71	U	ng/L	P423586	
		Metolachlor	0.33	U	ng/L	P423586	
		Metribuzin	1.4	U	ng/L	P423586	
		Mevinphos	0.99	U	ng/L	P423586	
		Molinate	0.28	U	ng/L	P423586	
		Myclobutanil	0.24	U	ng/L	P423586	
		Naled	1.4	U	ng/L	P423586	
		Napropamide	0.38	U	ng/L	P423586	
		Norflurazon	0.47	U	ng/L	P423586	
		Oxadiazon	0.28	U	ng/L	P423586	
		Oxyfluorfen	0.14	U	ng/L	P423586	
		Parathion Ethyl	0.24	UJ	ng/L	P423586	LCS, MS
		Parathion Methyl	0.52	UJ	ng/L	P423586	LCS, MS
		Pendimethalin	0.95	U	ng/L	P423586	
		Phenytoin**	3.3	U	ng/L	P423586	
		Phorate	0.50	U	ng/L	P423586	
		Prodiamine	0.17	U	ng/L	P423586	
		Prometon	0.85	U	ng/L	P423586	
		Prometryn	0.19	U	ng/L	P423586	
		Pronamide	0.14	U	ng/L	P423586	
		Propanil	0.12	U	ng/L	P423586	

Field ID: FB_12132022 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2375147	EPA 8270E	Propargite	1.4	U	ng/L	P423586	
		Propiconazole	0.47	U	ng/L	P423586	
		Pyraflufen Ethyl	0.24	U	ng/L	P423586	
		Pyridaben	0.43	U	ng/L	P423586	
		Pyriproxyfen	0.12	U	ng/L	P423586	
		Simazine	0.47	U	ng/L	P423586	
		Stirophos	0.12	U	ng/L	P423586	
		Sulfentrazone	0.47	U	ng/L	P423586	
		Tebuconazole	0.47	U	ng/L	P423586	
		Terbufos	0.095	U	ng/L	P423586	MS
		Terbuthylazine	0.40	U	ng/L	P423586	
		Thiobencarb	0.57	U	ng/L	P423586	
		Triadimefon	0.24	U	ng/L	P423586	
2375148	EPA 200.7 Rev. 4.4	Calcium	0.075	U	mg/L	P423598	
		Iron	30	U	ug/L	P423598	
		Magnesium	0.040	U	mg/L	P423598	
		Potassium	0.30	U	mg/L	P423598	
		Sodium	0.50	U	mg/L	P423598	
		Strontium	2.0	U	ug/L	P423598	
		Tin	3.0	U	ug/L	P423598	
		Titanium	0.75	U	ug/L	P423598	
		Vanadium	2.0	U	ug/L	P423598	
		Zinc	5.0	U	ug/L	P423598	
	EPA 200.8 Rev. 5.4	Aluminum	5.0	U	ug/L	P423598	
		Antimony	0.050	U	ug/L	P423598	
		Arsenic	0.050	U	ug/L	P423598	
		Barium	0.20	U	ug/L	P423598	
		Beryllium	0.010	U	ug/L	P423598	
		Boron	2.0	U	ug/L	P423598	
		Cadmium	0.020	U	ug/L	P423598	
		Chromium	0.40	U	ug/L	P423598	
		Cobalt	0.020	U	ug/L	P423598	
		Copper	0.40	U	ug/L	P423598	
		Lead	0.20	U	ug/L	P423598	
		Manganese	0.10	U	ug/L	P423598	
		Molybdenum	0.15	U	ug/L	P423598	
		Nickel	0.50	U	ug/L	P423598	
		Selenium	0.20	U	ug/L	P423598	
		Silver	0.010	U	ug/L	P423598	
		Thallium	0.10	U	ug/L	P423598	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8270E: Sample expired for preparation for oxybenzone due to need for re-extraction. Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: FB **Collection Date/Time: 12/13/2022 12:20**

Field ID: FB_12132022 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2375159	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	UJ	mg P/L	P423550	CCV

Ref. Method and Comment:
EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Lake Ann @ Center **Collection Date/Time: 12/13/2022 12:04**

Field ID: G2CE0097 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2378730	EPA 200.7 Rev. 4.4	Calcium	14.8		mg/L	P423598	
		Iron	56	I	ug/L	P423598	
		Magnesium	1.64		mg/L	P423598	
		Potassium	2.0		mg/L	P423598	
		Sodium	8.7		mg/L	P423598	
		Strontium	40.9		ug/L	P423598	
		Tin	3.0	U	ug/L	P423598	
		Titanium	0.75	U	ug/L	P423598	
		Vanadium	2.0	U	ug/L	P423598	
		Zinc	5.0	U	ug/L	P423598	
	EPA 200.8 Rev. 5.4	Aluminum	36		ug/L	P423598	
		Antimony	0.17	I	ug/L	P423598	
		Arsenic	0.52		ug/L	P423598	
		Barium	15.8		ug/L	P423598	
		Beryllium	0.010	U	ug/L	P423598	
		Boron	33.4		ug/L	P423598	
		Cadmium	0.020	U	ug/L	P423598	
		Chromium	0.40	U	ug/L	P423598	
		Cobalt	0.024	I	ug/L	P423598	
		Copper	1.49		ug/L	P423598	
		Lead	0.20	U	ug/L	P423598	
		Manganese	8.53		ug/L	P423598	
		Molybdenum	0.56	I	ug/L	P423598	
		Nickel	0.50	U	ug/L	P423598	
		Selenium	0.20	U	ug/L	P423598	
		Silver	0.010	U	ug/L	P423598	
		Thallium	0.10	U	ug/L	P423598	

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P423541

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P423536

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P423598

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: P423598

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: P423714

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: P423717

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424222

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P423750

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P423592

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P423568

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P423550

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

Reference Method: EPA 8270E
Batch ID: P423586

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	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P423586

Component	Result	Code	Units
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.62	U	ng/L
Dithiopyr	0.62	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P423586

Component	Result	Code	Units
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	4.5	U	ng/L
Flumioxazin	4.5	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.35	U	ng/L
Loratadine	0.35	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	1.5	U	ng/L
Metribuzin	1.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P423586

Component	Result	Code	Units
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytoin	3.5	U	ng/L
Phenytoin	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L
Terbuthylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P423586

Component	Result	Code	Units
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8270E
Batch ID: P423595

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P423595

Component	Result	Code	Units
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
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P423595

Component	Result	Code	Units
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: P423959

Component	Result	Code	Units
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L

Reference Method: EPA 8276
Batch ID: P423595

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: P423561

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: P423628

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: P423628

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	0.20	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0040	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P423629

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

Reference Method: SM 2320 B-2011
Batch ID: P423945

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

Reference Method: SM 2540 C-2015
Batch ID: P423892

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 2540 C-2015
Batch ID: P423893

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P423785

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P423786

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P423814

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P423698

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: P423541

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P423536

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P423598

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	106		P	85 - 115
Iron	102		P	85 - 115
Magnesium	101		P	85 - 115
Potassium	94.3		P	85 - 115
Sodium	98.5		P	85 - 115
Strontium	95.5		P	85 - 115
Tin	98.2		P	85 - 115
Titanium	101		P	85 - 115
Vanadium	98.3		P	85 - 115
Zinc	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P423598

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	103		P	85 - 115
Antimony	103		P	85 - 115
Arsenic	102		P	85 - 115
Barium	103		P	85 - 115
Beryllium	92.3		P	85 - 115
Boron	105		P	85 - 115
Cadmium	105		P	85 - 115
Chromium	93.5		P	85 - 115
Cobalt	94.0		P	85 - 115
Copper	97.2		P	85 - 115
Lead	94.0		P	85 - 115
Manganese	97.2		P	85 - 115
Molybdenum	101		P	85 - 115
Nickel	99.4		P	85 - 115
Selenium	102		P	85 - 115
Silver	101		P	85 - 115
Thallium	98.6		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423714

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423717

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424222

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P423750

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P423592

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	97.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P423568

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P423550

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

Reference Method: EPA 8270E
Batch ID: P423586

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	83.3		P	42 - 162
Acetochlor	106		P	69 - 123
Alachlor	94.0		P	65 - 118
Ametryn	138		P	58 - 141
Atrazine	111		P	73 - 118
Atrazine Desethyl	94.0		P	32 - 125
Avobenzone	108		P	40 - 203
Azinphos Methyl	136		P	36 - 197
Azoxystrobin	154		P	58 - 226
Bromacil	91.1		P	48 - 120
Butylate	67.0		P	27 - 85.0
Caffeine	89.7		P	40 - 137
Carbophenothion	112		P	54 - 132
Carfentrazone Ethyl	105		P	60 - 142
Chlorfenapyr	82.2		P	53 - 117
Chlorpyrifos Ethyl	99.7		P	59 - 116

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P423586

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	61.7		F	66 - 119
Coumaphos	99.2		P	11 - 234
Cyanazine	190		P	61 - 248
Cyprodinil	126		P	50 - 147
Dechlorane Plus	110		P	47 - 182
Demeton	110		P	30 - 138
Diazinon	118		P	67 - 126
Difenoconazole	103		P	38 - 205
Dimethenamid	71.9		P	57 - 111
Dimethomorph	174		P	16 - 212
Disulfoton	114		P	46 - 126
Dithiopyr	95.6		P	62 - 115
EPTC	61.7		P	28 - 80.0
Ethion	47.8		P	24 - 122
Ethoprop	71.8		P	62 - 113
Etridiazole	85.7		P	28 - 92.0
Fenamiphos	76.6		P	57 - 128
Fenbuconazole	117		P	52 - 155
Fipronil	91.6		P	63 - 130
Fipronil Desulfinyl	102		P	61 - 130
Fipronil Sulfide	95.9		P	56 - 117
Fipronil Sulfone	98.5		P	52 - 118
Fluazifop-P-butyl	100		P	61 - 128
Fludioxonil	85.1		P	59 - 129
Flumioxazin	158		P	30 - 250
Flutolanil	93.0		P	53 - 127
Fluxapyroxad	94.2		P	42 - 132
Fonofos	65.0		P	61 - 110
Hexazinone	112		P	46 - 139
Imazalil	106		P	40 - 139
Iprodione	85.0		P	40 - 146
Loratadine	183		P	10 - 224
Malathion	107		P	61 - 135
Metalaxyl	94.9		P	58 - 121
Metolachlor	105		P	64 - 118
Metribuzin	117		P	45 - 245
Mevinphos	105		P	49 - 118
Molinate	77.4		P	42 - 92.0
Myclobutanil	93.1		P	55 - 127
Naled	109		P	10 - 114
Napropamide	72.7		P	39 - 121
Norflurazon	117		P	55 - 129
Octinoxate	93.1		P	26 - 166
Oxadiazon	103		P	54 - 115
Oxybenzone	83.8		P	49 - 135
Oxyfluorfen	82.4		P	64 - 139
Parathion Ethyl	114		F	70 - 111
Parathion Methyl	160		F	76 - 136
PBDE-47	87.2		P	41 - 148
PBDE-99	82.7		P	38 - 147
Pendimethalin	72.3		P	52 - 118
Phenytoin	17.5		P	10 - 162

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P423586

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Phorate	107		P	40 - 122
Prodiamine	72.6		P	26 - 141
Prometon	74.3		P	54 - 122
Prometryn	80.5		P	61 - 128
Pronamide	88.7		P	72 - 121
Propanil	103		P	45 - 144
Propargite	66.6		P	10 - 199
Propiconazole	60.4		P	56 - 127
Pyraflufen Ethyl	82.3		P	56 - 140
Pyridaben	120		P	26 - 211
Pyriproxyfen	95.9		P	33 - 194
Simazine	94.8		P	67 - 121
Stirophos	59.7		P	20 - 142
Sulfentrazone	58.6		P	21 - 144
Tebuconazole	45.3		P	10 - 122
Terbufos	81.0		P	60 - 129
Terbuthylazine	90.5		P	69 - 113
Thiobencarb	85.1		P	51 - 120
Tri-o-cresyl Phosphate	90.0		P	49 - 150
Triadimefon	84.5		P	56 - 114

Reference Method: EPA 8270E
Batch ID: P423595

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	38.7		P	10 - 92.0
Alpha-BHC	87.5		P	75 - 107
Alpha-Chlordane	72.8		P	50 - 108
Beta-BHC	80.6		P	36 - 138
Beta-Cyfluthrin	66.3		P	20 - 161
Bifenthrin	48.2		P	10 - 119
Chlorothalonil	94.8		P	26 - 186
Cis-Nonachlor	64.4		P	42 - 119
Cypermethrin	66.3		P	22 - 150
Dacthal	85.3		P	72 - 119
DDD-p,p'	65.8		P	45 - 107
DDE-p,p'	65.4		P	48 - 106
DDT-p,p'	61.8		P	48 - 110
Delta-BHC	86.2		P	54 - 140
Deltamethrin	77.9		P	22 - 189
Dichlobenil	70.3		P	36 - 117
Dicofol	69.1		P	46 - 155
Dieldrin	74.7		P	54 - 110
Endosulfan I	74.2		P	59 - 105
Endosulfan II	85.6		P	51 - 118
Endosulfan Sulfate	76.1		P	57 - 121
Endrin	74.7		P	10 - 120
Endrin Aldehyde	75.7		P	34 - 118
Endrin Ketone	95.1		P	69 - 177
Esfenvalerate	69.3		P	23 - 168
Ethalfluralin	72.7		P	49 - 99.0
Fenpropathrin	65.1		P	34 - 117

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P423595

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Gamma-BHC	91.7		P	72 - 117
Gamma-Chlordane	64.3		P	43 - 106
Heptachlor	60.1		P	41 - 98.0
Heptachlor Epoxide	75.4		P	57 - 106
Hexachlorobenzene	51.8		P	36 - 99.0
Kepone	118		P	16 - 215
Lambda-Cyhalothrin	56.0		P	21 - 177
Methoprene	53.9		P	10 - 119
Methoxychlor	75.0		P	60 - 112
MGK-264	67.5		P	26 - 122
Mirex	52.9		P	10 - 169
Oxychlordane	70.4		P	43 - 105
PCB-1016	77.9		P	48 - 112
PCB-1260	83.5		P	44 - 118
Permethrin	65.9		P	24 - 148
Phenothrin	44.0		P	10 - 106
Piperonyl Butoxide	91.4		P	10 - 139
Prallethrin	59.8		P	17 - 109
Tau-Fluvalinate	55.4		P	13 - 131
Tetramethrin	72.8		P	10 - 132
Trans-Nonachlor	63.9		P	44 - 106
Triclosan Methyl	74.3		P	59 - 109
Trifluralin	72.7		P	44 - 101

Reference Method: EPA 8270E
Batch ID: P423959

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Oxybenzone	89.3		P	49 - 135

Reference Method: EPA 8276
Batch ID: P423595

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	95.7		P	61 - 116
Toxaphene	100		P	48 - 124

Reference Method: EPA 8321B
Batch ID: P423561

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	74.1		P	40 - 150
AMPA	106		P	40 - 150
Endothall	97.9		P	40 - 150
Glufosinate	100		P	40 - 150
Glyphosate	98.6		P	40 - 150
Sucralose	113		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P423628

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P423628

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	102		P	40 - 150
2,4,5-T	76.0		P	40 - 150
Acetaminophen	95.1		P	30 - 150
Acetamiprid	83.1		P	40 - 150
Afidopyropen	64.9		P	30 - 150
Bentazon	69.1		P	30 - 150
Benzovindiflupyr	85.1		P	40 - 150
Carbamazepine	81.2		P	40 - 150
Clothianidin	93.6		P	40 - 150
Dinotefuran	95.1		P	40 - 150
Diuron	69.3		P	40 - 150
Fenuron	93.5		P	40 - 150
Fluridone	78.0		P	40 - 150
Hydrocodone	86.3		P	40 - 150
Ibuprofen	96.7		P	40 - 150
Imazapyr	83.6		P	40 - 150
Imidacloprid	85.4		P	40 - 150
Linuron	77.2		P	40 - 150
Mandestrobin	91.0		P	40 - 150
MCPP	102		P	40 - 150
Naproxen	87.6		P	40 - 150
Primidone	89.9		P	40 - 150
Pyraclostrobin	78.4		P	40 - 150
Silvex	82.2		P	40 - 150
Thiamethoxam	86.6		P	40 - 150
Tolfenpyrad	40.8		P	30 - 150
Triclopyr	73.2		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P423629

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	89.0		P	40 - 150
Aldicarb	64.4		P	30 - 150
Aldicarb Sulfone	85.8		P	40 - 150
Aldicarb Sulfoxide	96.7		P	40 - 150
Carbaryl	79.7		P	40 - 150
Carbofuran	75.1		P	40 - 150
Methiocarb	62.8		P	40 - 150
Methomyl	90.0		P	40 - 150
Oxamyl	89.3		P	40 - 150
Propoxur	71.9		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P423945

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.0		P	94 - 106

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2540 C-2015
Batch ID: P423892

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	96.7		P	90 - 110

Reference Method: SM 2540 C-2015
Batch ID: P423893

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	92.2		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P423785

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	101		P	85 - 106

Reference Method: SM 2540 D-2015
Batch ID: P423786

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	95.2		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P423814

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P423698

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

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P423598

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375565	Calcium	99.6		P	80 - 120
2375565	Iron	102	103	P/P	80 - 120
2375565	Magnesium	97.9		P	80 - 120
2375565	Potassium	96.8	97.3	P/P	80 - 120
2375565	Sodium	98.1	97.7	P/P	80 - 120
2375565	Strontium	97.9	98.5	P/P	80 - 120
2375565	Tin	98.7	100	P/P	80 - 120
2375565	Titanium	102	104	P/P	80 - 120
2375565	Vanadium	99.8	102	P/P	80 - 120
2375565	Zinc	99.8	102	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P423598

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375565	Aluminum	98.5	100	P/P	80 - 120
2375565	Antimony	102	104	P/P	80 - 120
2375565	Arsenic	102	104	P/P	80 - 120
2375565	Barium	101	104	P/P	80 - 120
2375565	Beryllium	92.4	94.3	P/P	80 - 120
2375565	Boron	100	103	P/P	80 - 120
2375565	Cadmium	103	107	P/P	80 - 120
2375565	Chromium	94.1	95.8	P/P	80 - 120
2375565	Cobalt	93.0	95.6	P/P	80 - 120
2375565	Copper	95.6	97.2	P/P	80 - 120
2375565	Lead	91.1	93.9	P/P	80 - 120
2375565	Manganese	96.7	98.8	P/P	80 - 120
2375565	Molybdenum	102	103	P/P	80 - 120
2375565	Nickel	97.4	101	P/P	80 - 120
2375565	Selenium	101	102	P/P	80 - 120
2375565	Silver	101	102	P/P	80 - 120
2375565	Thallium	98.9	101	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423714

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2374882	Chloride	95.2		P	90 - 110
2375057	Chloride	98.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423717

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2374882	Sulfate	96.6		P	90 - 110
2375057	Sulfate	95.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424222

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375138	Ammonia-N	99.2	99.8	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P423750

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375236	Kjeldahl Nitrogen	105	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P423592

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375138	NO2NO3-N	98.3	98.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P423568

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375138	Total-P	104	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P423550

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2374872	O-Phosphate-P	97.7	99.4	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P423586

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2374737	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	68.3	61.9	P/P	26 - 165
2374737	Acetochlor	103	111	P/P	67 - 124
2374737	Alachlor	87.7	97.3	P/P	60 - 120
2374737	Ametryn	118	141	P/P	54 - 216
2374737	Atrazine	115	126	P/P	66 - 128
2374737	Atrazine Desethyl	84.2	97.4	P/P	15 - 122
2374737	Avobenzone	97.2	89.4	P/P	37 - 178
2374737	Azinphos Methyl	166	187	P/P	40 - 292
2374737	Azoxystrobin	137	149	P/P	35 - 220
2374737	Bromacil	99.1	113	P/P	45 - 127
2374737	Butylate	48.6	73.3	P/P	20 - 83.0
2374737	Caffeine	82.6	84.9	P/P	10 - 194
2374737	Carbophenothion	109	116	P/P	57 - 127
2374737	Carfentrazone Ethyl	102	113	P/P	51 - 141
2374737	Chlorfenapyr	96.0	95.6	P/P	46 - 111
2374737	Chlorpyrifos Ethyl	99.1	105	P/P	52 - 120
2374737	Chlorpyrifos Methyl	143	151	F/F	63 - 119
2374737	Coumaphos	97.3	117	P/P	10 - 228
2374737	Cyanazine	185	184	P/P	59 - 241
2374737	Cyprodinil	118	130	P/P	47 - 146
2374737	Dechlorane Plus	92.8	88.5	P/P	50 - 150
2374737	Demeton	123	132	P/P	40 - 136
2374737	Diazinon	118	126	P/P	69 - 132
2374737	Difenoconazole	141	165	P/P	57 - 258
2374737	Dimethenamid	77.3	83.9	P/P	54 - 110
2374737	Dimethomorph	167	198	P/P	28 - 210
2374737	Disulfoton	130	124	P/P	43 - 133
2374737	Dithiopyr	98.6	101	P/P	39 - 116

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P423586

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2374737	EPTC	39.5	65.6	P/P	20 - 78.0
2374737	Ethion	68.3	56.0	P/P	17 - 119
2374737	Ethoprop	144	160	F/F	66 - 120
2374737	Etridiazole	66.1	95.3	P/P	28 - 96.0
2374737	Fenamiphos	98.5	103	P/P	41 - 126
2374737	Fenbuconazole	112	128	P/P	42 - 169
2374737	Fipronil	91.4	99.7	P/P	61 - 132
2374737	Fipronil Desulfinyl	97.3	103	P/P	56 - 132
2374737	Fipronil Sulfide	86.3	85.7	P/P	48 - 119
2374737	Fipronil Sulfone	74.9	81.2	P/P	42 - 131
2374737	Fluazifop-P-butyl	91.1	95.6	P/P	53 - 131
2374737	Fludioxonil	87.6	92.3	P/P	56 - 127
2374737	Flumioxazin	201	244	P/P	19 - 300
2374737	Flutolanil	111	115	P/P	41 - 127
2374737	Fluxapyroxad	96.2	108	P/P	42 - 172
2374737	Fonofos	136	139	F/F	59 - 113
2374737	Hexazinone	105	111	P/P	66 - 122
2374737	Imazalil	106	102	P/P	21 - 283
2374737	Iprodione	97.2	105	P/P	43 - 150
2374737	Loratadine	158	178	P/P	23 - 201
2374737	Malathion	109	125	P/P	58 - 136
2374737	Metalaxyl	87.6	95.9	P/P	55 - 120
2374737	Metolachlor	104	111	P/P	57 - 121
2374737	Metribuzin	117	129	P/P	58 - 294
2374737	Mevinphos	94.7	122	P/P	50 - 126
2374737	Molinate	67.5	86.2	P/P	42 - 93.0
2374737	Myclobutanil	93.4	100	P/P	55 - 125
2374737	Naled	82.8	106	P/P	18 - 200
2374737	Napropamide	94.3	95.7	P/P	39 - 110
2374737	Norflurazon	79.9	81.4	P/P	48 - 128
2374737	Octinoxate	76.2	68.3	P/P	21 - 159
2374737	Oxadiazon	99.6	104	P/P	43 - 112
2374737	Oxybenzone	67.0	62.6	P/P	41 - 142
2374737	Oxyfluorfen	80.9	78.2	P/P	64 - 153
2374737	Parathion Ethyl	108	126	P/F	69 - 114
2374737	Parathion Methyl	155	158	F/F	79 - 139
2374737	PBDE-47	73.7	68.1	P/P	27 - 144
2374737	PBDE-99	73.5	68.3	P/P	18 - 150
2374737	Pendimethalin	93.0	93.6	P/P	50 - 139
2374737	Phenytoin	37.1	42.1	P/P	10 - 146
2374737	Phorate	111	121	P/P	54 - 161
2374737	Prodiamine	42.8	45.1	P/P	30 - 161
2374737	Prometon	87.3	77.6	P/P	45 - 134
2374737	Prometryn	93.2	83.3	P/P	45 - 137
2374737	Pronamide	109	116	P/P	65 - 133
2374737	Propanil	112	121	P/P	49 - 142
2374737	Propargite	87.5	93.0	P/P	10 - 203
2374737	Propiconazole	96.1	131	P/P	38 - 146
2374737	Pyraflufen Ethyl	90.1	113	P/P	34 - 153
2374737	Pyridaben	129	140	P/P	12 - 192
2374737	Pyriproxyfen	108	108	P/P	33 - 180
2374737	Simazine	102	114	P/P	51 - 157

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P423586

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2374737	Stirophos	83.7	93.8	P/P	10 - 128
2374737	Sulfentrazone	84.7	97.1	P/P	53 - 186
2374737	Tebuconazole	65.6	66.8	P/P	10 - 133
2374737	Terbufos	172	176	F/F	65 - 139
2374737	Terbuthylazine	91.7	97.9	P/P	66 - 117
2374737	Thiobencarb	85.3	97.3	P/P	51 - 119
2374737	Tri-o-cresyl Phosphate	78.8	70.1	P/P	31 - 144
2374737	Triadimefon	96.1	99.9	P/P	48 - 119

Reference Method: EPA 8270E
Batch ID: P423595

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2374961	Aldrin	60.2	63.6	P/P	20 - 82.0
2374961	Alpha-BHC	93.8	89.8	P/P	71 - 109
2374961	Alpha-Chlordane	75.2	60.1	P/P	42 - 106
2374961	Beta-BHC	86.6	96.9	P/P	69 - 180
2374961	Beta-Cyfluthrin	100	107	P/P	18 - 175
2374961	Bifenthrin	88.3	88.4	P/P	21 - 128
2374961	Chlorothalonil	3.46	0.683	F/F	10 - 300
2374961	Cis-Nonachlor	70.5	68.3	P/P	34 - 106
2374961	Cypermethrin	112	104	P/P	22 - 158
2374961	Dacthal	85.5	85.1	P/P	54 - 116
2374961	DDD-p,p'	87.4	88.2	P/P	34 - 107
2374961	DDE-p,p'	74.8	69.9	P/P	33 - 110
2374961	DDT-p,p'	73.7	72.2	P/P	50 - 122
2374961	Delta-BHC	93.0	95.0	P/P	77 - 193
2374961	Deltamethrin	121	130	P/P	10 - 195
2374961	Dichlobenil	41.6	45.3	P/P	25 - 113
2374961	Dicofol	81.6	82.8	P/P	38 - 247
2374961	Dieldrin	79.6	79.4	P/P	45 - 118
2374961	Endosulfan I	82.3	78.1	P/P	51 - 106
2374961	Endosulfan II	98.5	126	P/F	37 - 122
2374961	Endosulfan Sulfate	72.2	78.6	P/P	43 - 132
2374961	Endrin	78.6	77.8	P/P	29 - 101
2374961	Endrin Aldehyde	47.9	24.7	P/P	19 - 110
2374961	Endrin Ketone	81.2	86.5	P/P	60 - 140
2374961	Esfenvalerate	106	110	P/P	26 - 199
2374961	Ethalfluralin	82.2	88.3	P/P	45 - 99.0
2374961	Fenpropathrin	79.3	78.8	P/P	35 - 120
2374961	Gamma-BHC	101	86.1	P/P	63 - 128
2374961	Gamma-Chlordane	76.7	72.6	P/P	40 - 104
2374961	Heptachlor	74.0	78.4	P/P	36 - 97.0
2374961	Heptachlor Epoxide	81.8	81.3	P/P	49 - 184
2374961	Hexachlorobenzene	61.6	63.4	P/P	39 - 96.0
2374961	Kepone	87.2	101	P/P	10 - 217
2374961	Lambda-Cyhalothrin	102	132	P/P	21 - 193
2374961	Methoprene	83.1	80.7	P/P	20 - 106
2374961	Methoxychlor	88.6	88.3	P/P	53 - 118
2374961	MGK-264	52.0	52.8	P/P	40 - 118
2374961	Mirex	72.5	70.7	P/P	26 - 92.0
2374961	Oxychlordane	79.5	76.2	P/P	44 - 99.0

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P423595

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2374961	Permethrin	97.1	95.8	P/P	33 - 182
2374961	Phenothrin	87.7	89.0	P/P	10 - 129
2374961	Piperonyl Butoxide	68.6	71.1	P/P	10 - 211
2374961	Prallethrin	74.5	69.7	P/P	24 - 113
2374961	Tau-Fluvalinate	104	102	P/P	14 - 149
2374961	Tetramethrin	127	136	P/P	17 - 151
2374961	Trans-Nonachlor	76.8	74.6	P/P	42 - 102
2374961	Triclosan Methyl	77.7	75.5	P/P	48 - 108
2374961	Trifluralin	82.3	83.8	P/P	47 - 96.0
2375289	PCB-1016	71.9	76.7	P/P	46 - 111
2375289	PCB-1260	73.5	75.7	P/P	45 - 114

Reference Method: EPA 8270E
Batch ID: P423959

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377292	Oxybenzone	64.1	64.4	P/P	41 - 142

Reference Method: EPA 8276
Batch ID: P423595

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375289	Chlordane	77.9	86.4	P/P	53 - 126
2375289	Toxaphene	90.6	109	P/P	56 - 211

Reference Method: EPA 8321B
Batch ID: P423561

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375144	Acesulfame K	77.0	95.0	P/P	40 - 150
2375144	AMPA	99.4	99.4	P/P	40 - 150
2375144	Endothall	103	100	P/P	40 - 150
2375144	Glufosinate	111	110	P/P	40 - 150
2375144	Glyphosate	97.5	102	P/P	40 - 150
2375144	Sucralose	112	110	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P423628

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375490	2,4-D	108	102	P/P	40 - 150
2375490	2,4,5-T	80.2	74.0	P/P	40 - 150
2375490	Acetaminophen	103	100	P/P	30 - 150
2375490	Acetamiprid	87.9	83.9	P/P	40 - 150
2375490	Afidopyropen	64.1	70.2	P/P	30 - 150
2375490	Bentazon	70.5	75.8	P/P	30 - 150
2375490	Benzovindiflupyr	93.9	88.2	P/P	40 - 150
2375490	Carbamazepine	86.2	83.4	P/P	40 - 150
2375490	Clothianidin	100	103	P/P	40 - 150
2375490	Dinotefuran	103	97.9	P/P	40 - 150
2375490	Diuron	79.8	76.3	P/P	40 - 150
2375490	Fenuron	100	101	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P423628

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375490	Fluridone	78.9	81.6	P/P	40 - 150
2375490	Hydrocodone	90.1	92.1	P/P	40 - 150
2375490	Ibuprofen	99.9	92.6	P/P	40 - 150
2375490	Imazapyr	90.6	89.4	P/P	40 - 150
2375490	Imidacloprid	92.5	91.9	P/P	40 - 150
2375490	Linuron	81.9	80.5	P/P	40 - 150
2375490	Mandestrobin	94.3	99.3	P/P	40 - 150
2375490	MCPP	105	96.5	P/P	40 - 150
2375490	Naproxen	89.4	66.8	P/P	40 - 150
2375490	Primidone	95.7	95.6	P/P	40 - 150
2375490	Pyraclostrobin	88.7	85.3	P/P	40 - 150
2375490	Silvex	78.6	88.1	P/P	40 - 150
2375490	Thiamethoxam	95.2	95.2	P/P	40 - 150
2375490	Tolfenpyrad	50.0	42.3	P/P	30 - 150
2375490	Triclopyr	87.9	74.1	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P423629

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375143	3-Hydroxycarbofuran	92.1	87.0	P/P	40 - 150
2375143	Aldicarb	74.1	70.0	P/P	30 - 150
2375143	Aldicarb Sulfone	100	96.8	P/P	40 - 150
2375143	Aldicarb Sulfoxide	50.8	50.1	P/P	40 - 150
2375143	Carbaryl	63.1	62.3	P/P	40 - 150
2375143	Carbofuran	52.8	49.5	P/P	40 - 150
2375143	Methiocarb	58.9	59.4	P/P	40 - 150
2375143	Methomyl	85.0	80.8	P/P	40 - 150
2375143	Oxamyl	91.3	93.0	P/P	40 - 150
2375143	Propoxur	47.1	51.8	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P423814

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2374419	Fluoride	101	99.5	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P423698

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375418	Organic Carbon	94.5	95.6	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P423541

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375175	Color (true)	4.28	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P423536

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2374898	Turbidity	0.531	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P423598

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375565	Calcium	0.0263	Spike	P	0 - 20
2375565	Iron	0.379	Spike	P	0 - 20
2375565	Magnesium	0.336	Spike	P	0 - 20
2375565	Potassium	0.461	Spike	P	0 - 20
2375565	Sodium	0.208	Spike	P	0 - 20
2375565	Strontium	0.571	Spike	P	0 - 20
2375565	Tin	1.48	Spike	P	0 - 20
2375565	Titanium	1.88	Spike	P	0 - 20
2375565	Vanadium	2.12	Spike	P	0 - 20
2375565	Zinc	1.87	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P423598

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375565	Aluminum	1.62	Spike	P	0 - 20
2375565	Antimony	2.63	Spike	P	0 - 20
2375565	Arsenic	2.00	Spike	P	0 - 20
2375565	Barium	2.63	Spike	P	0 - 20
2375565	Beryllium	2.10	Spike	P	0 - 20
2375565	Boron	2.15	Spike	P	0 - 20
2375565	Cadmium	3.04	Spike	P	0 - 20
2375565	Chromium	1.80	Spike	P	0 - 20
2375565	Cobalt	2.69	Spike	P	0 - 20
2375565	Copper	1.72	Spike	P	0 - 20
2375565	Lead	2.94	Spike	P	0 - 20
2375565	Manganese	1.91	Spike	P	0 - 20
2375565	Molybdenum	0.492	Spike	P	0 - 20
2375565	Nickel	3.81	Spike	P	0 - 20
2375565	Selenium	1.10	Spike	P	0 - 20
2375565	Silver	0.666	Spike	P	0 - 20
2375565	Thallium	2.52	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423714

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2374882	Chloride	3.46	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423717

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2374882	Sulfate	4.46	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424222

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375138	Ammonia-N	0.455	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P423750

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375236	Kjeldahl Nitrogen	0.808	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P423592

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375138	NO2NO3-N	0.451	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P423568

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375138	Total-P	2.56	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P423550

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2374872	O-Phosphate-P	1.63	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P423586

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2374737	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	5.38	Spike	P	0 - 37
2374737	Acetochlor	7.32	Spike	P	0 - 28

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P423586

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2374737	Alachlor	10.4	Spike	P	0 - 30
2374737	Ametryn	17.6	Spike	P	0 - 32
2374737	Atrazine	7.88	Spike	P	0 - 41
2374737	Atrazine Desethyl	14.5	Spike	P	0 - 36
2374737	Avobenzone	8.36	Spike	P	0 - 36
2374737	Azinphos Methyl	11.6	Spike	P	0 - 75
2374737	Azoxystrobin	8.33	Spike	P	0 - 39
2374737	Bromacil	13.4	Spike	P	0 - 33
2374737	Butylate	40.5	Spike	P	0 - 44
2374737	Caffeine	2.74	Spike	P	0 - 74
2374737	Carbophenothion	6.37	Spike	P	0 - 25
2374737	Carfentrazone Ethyl	10.2	Spike	P	0 - 27
2374737	Chlorfenapyr	0.418	Spike	P	0 - 24
2374737	Chlorpyrifos Ethyl	5.61	Spike	P	0 - 26
2374737	Chlorpyrifos Methyl	5.46	Spike	P	0 - 26
2374737	Coumaphos	18.4	Spike	P	0 - 28
2374737	Cyanazine	0.819	Spike	P	0 - 48
2374737	Cyprodinil	9.69	Spike	P	0 - 29
2374737	Dechlorane Plus	4.79	Spike	P	0 - 30
2374737	Demeton	7.38	Spike	P	0 - 33
2374737	Diazinon	6.51	Spike	P	0 - 29
2374737	Difenoconazole	15.8	Spike	P	0 - 34
2374737	Dimethenamid	8.24	Spike	P	0 - 39
2374737	Dimethomorph	17.0	Spike	P	0 - 51
2374737	Disulfoton	4.46	Spike	P	0 - 30
2374737	Dithiopyr	2.37	Spike	P	0 - 26
2374737	EPTC	49.7	Spike	F	0 - 43
2374737	Ethion	19.8	Spike	P	0 - 79
2374737	Ethoprop	11.1	Spike	P	0 - 29
2374737	Etridiazole	36.1	Spike	F	0 - 33
2374737	Fenamiphos	4.52	Spike	P	0 - 40
2374737	Fenbuconazole	13.3	Spike	P	0 - 74
2374737	Fipronil	8.70	Spike	P	0 - 29
2374737	Fipronil Desulfinyl	5.40	Spike	P	0 - 32
2374737	Fipronil Sulfide	0.641	Spike	P	0 - 30
2374737	Fipronil Sulfone	8.12	Spike	P	0 - 33
2374737	Fluazifop-P-butyl	4.79	Spike	P	0 - 38
2374737	Fludioxonil	5.26	Spike	P	0 - 29
2374737	Flumioxazin	19.0	Spike	P	0 - 51
2374737	Flutolanil	3.86	Spike	P	0 - 25
2374737	Fluxapyroxad	11.5	Spike	P	0 - 45
2374737	Fonofos	2.41	Spike	P	0 - 27
2374737	Hexazinone	5.27	Spike	P	0 - 30
2374737	Imazalil	4.24	Spike	P	0 - 100
2374737	Iprodione	7.87	Spike	P	0 - 33
2374737	Loratadine	11.7	Spike	P	0 - 56
2374737	Malathion	13.2	Spike	P	0 - 37
2374737	Metalaxyl	9.11	Spike	P	0 - 40
2374737	Metolachlor	6.56	Spike	P	0 - 29
2374737	Metribuzin	9.88	Spike	P	0 - 45
2374737	Mevinphos	25.6	Spike	P	0 - 29

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P423586

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2374737	Molinate	24.4	Spike	P	0 - 33
2374737	Myclobutanil	6.82	Spike	P	0 - 26
2374737	Naled	24.9	Spike	P	0 - 37
2374737	Napropamide	1.45	Spike	P	0 - 44
2374737	Norflurazon	1.92	Spike	P	0 - 30
2374737	Octinoxate	11.0	Spike	P	0 - 45
2374737	Oxadiazon	4.56	Spike	P	0 - 28
2374737	Oxybenzone	6.87	Spike	P	0 - 46
2374737	Oxyfluorfen	3.44	Spike	P	0 - 28
2374737	Parathion Ethyl	14.9	Spike	P	0 - 31
2374737	Parathion Methyl	2.22	Spike	P	0 - 29
2374737	PBDE-47	7.98	Spike	P	0 - 36
2374737	PBDE-99	7.36	Spike	P	0 - 40
2374737	Pendimethalin	0.664	Spike	P	0 - 33
2374737	Phenytoin	12.8	Spike	P	0 - 100
2374737	Phorate	9.05	Spike	P	0 - 36
2374737	Prodiamine	5.26	Spike	P	0 - 71
2374737	Prometon	11.8	Spike	P	0 - 36
2374737	Prometryn	11.2	Spike	P	0 - 28
2374737	Pronamide	6.26	Spike	P	0 - 24
2374737	Propanil	7.71	Spike	P	0 - 28
2374737	Propargite	6.15	Spike	P	0 - 43
2374737	Propiconazole	30.6	Spike	P	0 - 33
2374737	Pyraflufen Ethyl	22.1	Spike	P	0 - 29
2374737	Pyridaben	8.60	Spike	P	0 - 30
2374737	Pyriproxyfen	0.142	Spike	P	0 - 79
2374737	Simazine	11.3	Spike	P	0 - 29
2374737	Stirophos	11.4	Spike	P	0 - 61
2374737	Sulfentrazone	13.6	Spike	P	0 - 33
2374737	Tebuconazole	1.78	Spike	P	0 - 69
2374737	Terbufos	2.14	Spike	P	0 - 29
2374737	Terbuthylazine	6.53	Spike	P	0 - 32
2374737	Thiobencarb	13.1	Spike	P	0 - 26
2374737	Tri-o-cresyl Phosphate	11.7	Spike	P	0 - 33
2374737	Triadimefon	3.83	Spike	P	0 - 28

Reference Method: EPA 8270E
Batch ID: P423595

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2374961	Aldrin	5.48	Spike	P	0 - 41
2374961	Alpha-BHC	4.41	Spike	P	0 - 25
2374961	Alpha-Chlordane	22.3	Spike	P	0 - 33
2374961	Beta-BHC	11.2	Spike	P	0 - 36
2374961	Beta-Cyfluthrin	6.39	Spike	P	0 - 42
2374961	Bifenthrin	0.0442	Spike	P	0 - 53
2374961	Cis-Nonachlor	3.15	Spike	P	0 - 29
2374961	Cypermethrin	7.53	Spike	P	0 - 40
2374961	Dacthal	0.507	Spike	P	0 - 26
2374961	DDD-p,p'	0.908	Spike	P	0 - 39

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P423595

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2374961	DDE-p,p'	6.73	Spike	P	0 - 33
2374961	DDT-p,p'	2.07	Spike	P	0 - 40
2374961	Delta-BHC	2.11	Spike	P	0 - 37
2374961	Deltamethrin	7.25	Spike	P	0 - 100
2374961	Dichlobenil	8.53	Spike	P	0 - 40
2374961	Dicofol	1.49	Spike	P	0 - 31
2374961	Dieldrin	0.192	Spike	P	0 - 27
2374961	Endosulfan I	5.21	Spike	P	0 - 23
2374961	Endosulfan II	24.1	Spike	P	0 - 28
2374961	Endosulfan Sulfate	8.43	Spike	P	0 - 38
2374961	Endrin	1.09	Spike	P	0 - 63
2374961	Endrin Aldehyde	63.9	Spike	F	0 - 60
2374961	Endrin Ketone	6.34	Spike	P	0 - 37
2374961	Esfenvalerate	3.44	Spike	P	0 - 52
2374961	Ethalfluralin	7.06	Spike	P	0 - 23
2374961	Fenpropathrin	0.591	Spike	P	0 - 32
2374961	Gamma-BHC	15.9	Spike	P	0 - 17
2374961	Gamma-Chlordane	5.47	Spike	P	0 - 40
2374961	Heptachlor	5.74	Spike	P	0 - 29
2374961	Heptachlor Epoxide	0.580	Spike	P	0 - 25
2374961	Hexachlorobenzene	2.88	Spike	P	0 - 36
2374961	Kepone	14.8	Spike	P	0 - 93
2374961	Lambda-Cyhalothrin	25.6	Spike	P	0 - 55
2374961	Methoprene	2.98	Spike	P	0 - 53
2374961	Methoxychlor	0.362	Spike	P	0 - 29
2374961	MGK-264	1.64	Spike	P	0 - 35
2374961	Mirex	2.60	Spike	P	0 - 46
2374961	Oxychlordane	4.18	Spike	P	0 - 29
2374961	Permethrin	1.37	Spike	P	0 - 44
2374961	Phenothrin	1.52	Spike	P	0 - 56
2374961	Piperonyl Butoxide	3.60	Spike	P	0 - 100
2374961	Prallethrin	6.65	Spike	P	0 - 42
2374961	Tau-Fluvalinate	2.30	Spike	P	0 - 54
2374961	Tetramethrin	6.48	Spike	P	0 - 51
2374961	Trans-Nonachlor	2.93	Spike	P	0 - 37
2374961	Triclosan Methyl	2.86	Spike	P	0 - 31
2374961	Trifluralin	1.86	Spike	P	0 - 30
2375289	PCB-1016	6.43	Spike	P	0 - 32
2375289	PCB-1260	2.92	Spike	P	0 - 31

Reference Method: EPA 8270E
Batch ID: P423959

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377292	Oxybenzone	0.365	Spike	P	0 - 46

Quality Assurance Report
Precision

Reference Method: EPA 8276
Batch ID: P423595

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375289	Chlordane	7.72	Spike	P	0 - 25
2375289	Toxaphene	8.92	Spike	P	0 - 26

Reference Method: EPA 8321B
Batch ID: P423561

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375144	Acesulfame K	21.0	Spike	P	0 - 30
2375144	AMPA	0.00724	Spike	P	0 - 30
2375144	Endothall	2.13	Spike	P	0 - 30
2375144	Glufosinate	0.419	Spike	P	0 - 30
2375144	Glyphosate	4.40	Spike	P	0 - 30
2375144	Sucralose	0.765	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P423628

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375490	2,4-D	6.37	Spike	P	0 - 30
2375490	2,4,5-T	8.04	Spike	P	0 - 30
2375490	Acetaminophen	3.22	Spike	P	0 - 30
2375490	Acetamiprid	4.61	Spike	P	0 - 30
2375490	Afidopyropen	9.12	Spike	P	0 - 30
2375490	Bentazon	7.20	Spike	P	0 - 30
2375490	Benzovindiflupyr	6.34	Spike	P	0 - 30
2375490	Carbamazepine	3.33	Spike	P	0 - 30
2375490	Clothianidin	2.29	Spike	P	0 - 30
2375490	Dinotefuran	4.92	Spike	P	0 - 30
2375490	Diuron	4.49	Spike	P	0 - 30
2375490	Fenuron	0.949	Spike	P	0 - 30
2375490	Fluridone	3.36	Spike	P	0 - 30
2375490	Hydrocodone	2.16	Spike	P	0 - 30
2375490	Ibuprofen	7.56	Spike	P	0 - 30
2375490	Imazapyr	1.32	Spike	P	0 - 30
2375490	Imidacloprid	0.616	Spike	P	0 - 30
2375490	Linuron	1.69	Spike	P	0 - 30
2375490	Mandestrobin	5.14	Spike	P	0 - 30
2375490	MCPP	8.12	Spike	P	0 - 30
2375490	Naproxen	29.0	Spike	P	0 - 30
2375490	Primidone	0.111	Spike	P	0 - 30
2375490	Pyraclostrobin	3.99	Spike	P	0 - 30
2375490	Silvex	11.4	Spike	P	0 - 30
2375490	Thiamethoxam	0.0381	Spike	P	0 - 30
2375490	Tolfenpyrad	16.5	Spike	P	0 - 30
2375490	Triclopyr	17.0	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P423629

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375143	3-Hydroxycarbofuran	5.66	Spike	P	0 - 30
2375143	Aldicarb	5.68	Spike	P	0 - 30
2375143	Aldicarb Sulfone	3.26	Spike	P	0 - 30
2375143	Aldicarb Sulfoxide	1.32	Spike	P	0 - 30
2375143	Carbaryl	1.35	Spike	P	0 - 30
2375143	Carbofuran	6.34	Spike	P	0 - 30
2375143	Methiocarb	0.895	Spike	P	0 - 30
2375143	Methomyl	5.14	Spike	P	0 - 30
2375143	Oxamyl	1.79	Spike	P	0 - 30
2375143	Propoxur	9.43	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P423945

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375417	Total Alkalinity	1.63	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015
Batch ID: P423892

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2374477	TDS	5.39	Sample	P	0 - 10

Reference Method: SM 2540 C-2015
Batch ID: P423893

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2374869	TDS	5.86	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P423814

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2374419	Fluoride	1.02	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P423698

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375418	Organic Carbon	0.881	Spike	P	0 - 20

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2375143
Field Sample ID: G2CE0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	48.6	P	30 - 160

Lab Sample ID: 2375144
Field Sample ID: G2CE0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	105	P	30 - 160
EPA 8321B	Acetaminophen-d4	102	P	30 - 160
EPA 8321B	Carbamazepine-d10	78.9	P	30 - 160
EPA 8321B	Diuron-d6	71.3	P	30 - 160
EPA 8321B	Endothall-d6	106	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	99.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	87.8	P	30 - 160
EPA 8321B	Primidone-d5	101	P	30 - 160
EPA 8321B	Sucralose-d6	53.0	P	30 - 160

Lab Sample ID: 2375145
Field Sample ID: G2CE0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	79.0	P	29 - 130
EPA 8270E	Decachlorobiphenyl	43.5	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	55.8	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	49.1	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	56.3	P	30 - 101
EPA 8276	PCNB	87.9	P	48 - 121

Lab Sample ID: 2375146
Field Sample ID: G2CE0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	69.1	P	20 - 200
EPA 8270E	Simazine-d10	92.6	P	62 - 142
EPA 8270E	Terbufos-d10	103	P	58 - 132
EPA 8270E	Terphenyl-d14	97.5	P	52 - 137
EPA 8270E	Terphenyl-d14	98.0	P	52 - 137

Lab Sample ID: 2375147
Field Sample ID: FB_12132022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	61.2	P	20 - 200
EPA 8270E	Simazine-d10	80.2	P	62 - 142
EPA 8270E	Terbufos-d10	104	P	58 - 132
EPA 8270E	Terphenyl-d14	106	P	52 - 137
EPA 8270E	Terphenyl-d14	147	F	52 - 137

Quality Assurance Report
Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A116398
Included Lab Sample IDs: 2375137, 2375140

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	104	100	P/P	90 - 110
Sulfate	105	101	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A116438
Included Lab Sample IDs: 2375137, 2375140

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

Reference Method: DEP SOP: NU-094-1
Run ID: A116439
Included Lab Sample IDs: 2375137, 2375140

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.0	97.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A116443
Included Lab Sample IDs: 2375139, 2375159

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	92.3	87.7*	P/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A116461
Included Lab Sample IDs: 2375138, 2375141

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.0	96.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A116508
Included Lab Sample IDs: 2375138, 2375141

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	104	105	P/P	90 - 110
Total-P	106	104	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A116526
Included Lab Sample IDs: 2375148, 2378730

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	102	103	P/P	90 - 110
Antimony	99.1	101	P/P	90 - 110
Arsenic	100	103	P/P	90 - 110
Barium	99.3	100	P/P	90 - 110
Boron	103	101	P/P	90 - 110
Cadmium	102	102	P/P	90 - 110
Cobalt	91.9	93.8	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A116526
Included Lab Sample IDs: 2375148, 2378730

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Copper	97.5	98.7	P/P	90 - 110
Lead	96.5	97.6	P/P	90 - 110
Manganese	95.9	97.7	P/P	90 - 110
Molybdenum	99.7	100	P/P	90 - 110
Nickel	96.4	98.0	P/P	90 - 110
Selenium	103	106	P/P	90 - 110
Silver	99.0	97.6	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A116527
Included Lab Sample IDs: 2375138, 2375141

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

Reference Method: EPA 8270E
Run ID: A116530
Included Lab Sample IDs: 2375146, 2375147

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	98.5		P	80 - 120
Avobenzone	93.6		P	80 - 120
Dechlorane Plus	95.7		P	80 - 120
Octinoxate	98.8		P	80 - 120
Oxybenzone	100		P	80 - 120
PBDE-47	107		P	80 - 120
PBDE-99	102		P	80 - 120
Tri-o-cresyl Phosphate	101		P	80 - 120

Reference Method: EPA 8321B
Run ID: A116536
Included Lab Sample IDs: 2375144

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	75.0	90.5	P/P	60 - 160
Sucralose	109	114	P/P	60 - 160

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A116537
Included Lab Sample IDs: 2375148, 2378730

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beryllium	93.7	96.1	P/P	90 - 110
Chromium	93.5	90.0	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A116538
Included Lab Sample IDs: 2375144

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	107	110	P/P	60 - 160

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A116538
Included Lab Sample IDs: 2375144

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endothall	103	99.3	P/P	60 - 160
Glufosinate	102	106	P/P	60 - 160
Glyphosate	105	98.4	P/P	60 - 160

Reference Method: SM 4500-F- C-2011
Run ID: A116584
Included Lab Sample IDs: 2375137, 2375140

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	105	109	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A116588
Included Lab Sample IDs: 2375145

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	97.9		P	80 - 120
PCB-1260	102		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A116596
Included Lab Sample IDs: 2375138, 2375141

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

Reference Method: EPA 8276
Run ID: A116617
Included Lab Sample IDs: 2375145

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	98.0		P	80 - 120
Toxaphene	97.4		P	80 - 120

Reference Method: EPA 8270E
Run ID: A116618
Included Lab Sample IDs: 2375145

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	96.0		P	80 - 120
Alpha-BHC	100		P	80 - 120
Alpha-Chlordane	100		P	80 - 120
Beta-BHC	99.1		P	80 - 120
Beta-Cyfluthrin	100		P	80 - 120
Bifenthrin	99.2		P	80 - 120
Chlorothalonil	111		P	80 - 120
Cis-Nonachlor	103		P	80 - 120
Cypermethrin	95.8		P	80 - 120
Dacthal	98.8		P	80 - 120
DDD-p,p'	102		P	80 - 120
DDE-p,p'	99.5		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A116618
Included Lab Sample IDs: 2375145

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
DDT-p,p'	100		P	80 - 120
Delta-BHC	99.8		P	80 - 120
Deltamethrin	102		P	80 - 120
Dichlobenil	102		P	80 - 120
Dicofol	97.6		P	80 - 120
Dieldrin	98.5		P	80 - 120
Endosulfan I	98.1		P	80 - 120
Endosulfan II	107		P	80 - 120
Endosulfan Sulfate	99.0		P	80 - 120
Endrin	95.6		P	80 - 120
Endrin Aldehyde	93.0		P	80 - 120
Endrin Ketone	107		P	80 - 120
Esfenvalerate	105		P	80 - 120
Ethalfluralin	99.3		P	80 - 120
Fenpropathrin	98.3		P	80 - 120
Gamma-BHC	96.5		P	80 - 120
Gamma-Chlordane	98.2		P	80 - 120
Heptachlor	98.6		P	80 - 120
Heptachlor Epoxide	100		P	80 - 120
Hexachlorobenzene	99.2		P	80 - 120
Kepone	90.9		P	80 - 120
Lambda-Cyhalothrin	120		P	80 - 120
Methoprene	102		P	80 - 120
Methoxychlor	97.9		P	80 - 120
MGK-264	98.5		P	80 - 120
Mirex	102		P	80 - 120
Oxychlordane	100		P	80 - 120
Permethrin	99.3		P	80 - 120
Phenothrin	98.3		P	80 - 120
Piperonyl Butoxide	86.4		P	80 - 120
Prallethrin	97.4		P	80 - 120
Tau-Fluvalinate	99.7		P	80 - 120
Tetramethrin	95.3		P	80 - 120
Trans-Nonachlor	101		P	80 - 120
Triclosan Methyl	100		P	80 - 120
Trifluralin	99.1		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A116621
Included Lab Sample IDs: 2375148, 2378730

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	105	P/P	95 - 105
Iron	101	105	P/P	95 - 105
Magnesium	98.9	104	P/P	95 - 105
Potassium	97.1	101	P/P	95 - 105
Sodium	98.6	103	P/P	95 - 105
Strontium	99.9	95.8	P/P	95 - 105
Tin	101	96.7	P/P	95 - 105
Titanium	100	96.2	P/P	95 - 105
Vanadium	98.8	95.5	P/P	95 - 105

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A116621
Included Lab Sample IDs: 2375148, 2378730

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Zinc	105	98.3	P/P	95 - 105

Reference Method: SM 2320 B-2011
Run ID: A116652
Included Lab Sample IDs: 2375137, 2375140

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	94.5	96.8	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A116666
Included Lab Sample IDs: 2375148, 2378730

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Thallium	100	99.4	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A116684
Included Lab Sample IDs: 2375144

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	110	100	P/P	50 - 150
2,4,5-T	109	99.8	P/P	50 - 150
3-Hydroxycarbofuran	104	99.6	P/P	60 - 150
Acetaminophen	110	111	P/P	60 - 160
Acetamiprid	102	100	P/P	50 - 150
Afidopyropen	94.2	74.0	P/P	50 - 150
Aldicarb	100	107	P/P	60 - 150
Aldicarb Sulfone	103	102	P/P	50 - 150
Aldicarb Sulfoxide	99.6	106	P/P	50 - 150
Bentazon	94.7	96.6	P/P	50 - 160
Benzovindiflupyr	108	114	P/P	50 - 150
Carbamazepine	97.6	99.8	P/P	60 - 150
Carbaryl	103	102	P/P	60 - 150
Carbofuran	108	98.0	P/P	50 - 150
Clothianidin	108	106	P/P	60 - 150
Dinotefuran	104	106	P/P	50 - 150
Diuron	119	114	P/P	60 - 160
Fenuron	104	100	P/P	60 - 150
Fluridone	104	95.3	P/P	60 - 160
Hydrocodone	104	105	P/P	60 - 150
Ibuprofen	122	92.7	P/P	50 - 160
Imazapyr	101	92.0	P/P	50 - 150
Imidacloprid	94.9	93.6	P/P	60 - 150
Linuron	95.6	90.8	P/P	60 - 150
Mandestrobin	109	113	P/P	50 - 150
MCPP	103	97.1	P/P	50 - 150
Methiocarb	101	105	P/P	50 - 150
Methomyl	106	106	P/P	50 - 150
Naproxen	116	64.1	P/P	50 - 160
Oxamyl	103	106	P/P	50 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A116684
Included Lab Sample IDs: 2375144

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Primidone	93.9	96.9	P/P	60 - 150
Propoxur	109	97.8	P/P	50 - 150
Pyraclostrobin	122	118	P/P	60 - 150
Silvex	98.7	101	P/P	50 - 150
Thiamethoxam	103	104	P/P	50 - 150
Tolfenpyrad	99.1	98.8	P/P	60 - 150
Triclopyr	109	95.1	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A116693
Included Lab Sample IDs: 2375146, 2375147

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	106		P	80 - 120
Alachlor	101		P	80 - 120
Ametryn	99.8		P	80 - 120
Atrazine	100		P	80 - 120
Atrazine Desethyl	95.7		P	80 - 120
Azinphos Methyl	101		P	80 - 120
Azoxystrobin	101		P	80 - 120
Bromacil	93.2		P	80 - 120
Butylate	99.7		P	80 - 120
Caffeine	98.9		P	80 - 120
Carbophenothion	101		P	80 - 120
Carfentrazone Ethyl	102		P	80 - 120
Chlorfenapyr	98.3		P	80 - 120
Chlorpyrifos Ethyl	108		P	80 - 120
Chlorpyrifos Methyl	99.1		P	80 - 120
Coumaphos	103		P	80 - 120
Cyanazine	84.7		P	80 - 120
Cyprodinil	101		P	80 - 120
Demeton	96.2		P	80 - 120
Diazinon	101		P	80 - 120
Difenoconazole	101		P	80 - 120
Dimethenamid	105		P	80 - 120
Dimethomorph	87.2		P	80 - 120
Disulfoton	96.8		P	80 - 120
Dithiopyr	102		P	80 - 120
EPTC	99.6		P	80 - 120
Ethion	103		P	80 - 120
Ethoprop	96.4		P	80 - 120
Etridiazole	102		P	80 - 120
Fenamiphos	96.5		P	80 - 120
Fenbuconazole	101		P	80 - 120
Fipronil	96.3		P	80 - 120
Fipronil Desulfinyl	102		P	80 - 120
Fipronil Sulfide	85.3		P	80 - 120
Fipronil Sulfone	98.9		P	80 - 120
Fluazifop-P-butyl	103		P	80 - 120
Fludioxonil	105		P	80 - 120
Flumioxazin	104		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A116693
Included Lab Sample IDs: 2375146, 2375147

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Flutolanil	96.1		P	80 - 120
Fluxapyroxad	95.0		P	80 - 120
Fonofos	95.9		P	80 - 120
Hexazinone	98.9		P	80 - 120
Imazalil	99.8		P	80 - 120
Iprodione	100		P	80 - 120
Loratadine	93.7		P	80 - 120
Malathion	98.6		P	80 - 120
Metalaxyl	98.7		P	80 - 120
Metolachlor	106		P	80 - 120
Metribuzin	99.8		P	80 - 120
Mevinphos	106		P	80 - 120
Molinate	100		P	80 - 120
Myclobutanil	102		P	80 - 120
Naled	110		P	80 - 120
Napropamide	98.8		P	80 - 120
Norflurazon	93.4		P	80 - 120
Oxadiazon	97.7		P	80 - 120
Oxyfluorfen	104		P	80 - 120
Parathion Ethyl	101		P	80 - 120
Parathion Methyl	96.5		P	80 - 120
Pendimethalin	104		P	80 - 120
Phenytoin	106		P	80 - 120
Phorate	98.8		P	80 - 120
Prodiamine	99.6		P	80 - 120
Prometon	105		P	80 - 120
Prometryn	109		P	80 - 120
Pronamide	102		P	80 - 120
Propanil	91.3		P	80 - 120
Propargite	102		P	80 - 120
Propiconazole	95.5		P	80 - 120
Pyraflufen Ethyl	93.2		P	80 - 120
Pyridaben	101		P	80 - 120
Pyriproxyfen	99.3		P	80 - 120
Simazine	98.5		P	80 - 120
Stirophos	100		P	80 - 120
Sulfentrazone	92.8		P	80 - 120
Tebuconazole	99.5		P	80 - 120
Terbufos	95.6		P	80 - 120
Terbuthylazine	101		P	80 - 120
Thiobencarb	103		P	80 - 120
Triadimefon	110		P	80 - 120

Reference Method: EPA 8270E
Run ID: A116694
Included Lab Sample IDs: 2375146

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	96.5		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A116759
Included Lab Sample IDs: 2375147

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Oxybenzone	99.6		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A116773
Included Lab Sample IDs: 2375138, 2375141

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	99.4	P/P	90 - 110

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

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
DEP SOP: NU-094-1	Color (true)	100				4.28	
EPA 180.1 Rev. 2.0	Turbidity	102				0.531	
EPA 200.7 Rev. 4.4	Calcium	106	99.6				0.0263
	Iron	102	102	103			0.379
	Magnesium	101	97.9				0.336
	Potassium	94.3	96.8	97.3			0.461
	Sodium	98.5	98.1	97.7			0.208
	Strontium	95.5	97.9	98.5			0.571
	Tin	98.2	98.7	100			1.48
	Titanium	101	102	104			1.88
	Vanadium	98.3	99.8	102			2.12
	Zinc	101	99.8	102			1.87
EPA 200.8 Rev. 5.4	Aluminum	103	98.5	100			1.62
	Antimony	103	102	104			2.63
	Arsenic	102	102	104			2.00
	Barium	103	101	104			2.63
	Beryllium	92.3	92.4	94.3			2.10
	Boron	105	100	103			2.15
	Cadmium	105	103	107			3.04
	Chromium	93.5	94.1	95.8			1.80
	Cobalt	94.0	93.0	95.6			2.69
	Copper	97.2	95.6	97.2			1.72
	Lead	94.0	91.1	93.9			2.94
	Manganese	97.2	96.7	98.8			1.91
	Molybdenum	101	102	103			0.492
	Nickel	99.4	97.4	101			3.81
	Selenium	102	101	102			1.10
	Silver	101	101	102			0.666
	Thallium	98.6	98.9	101			2.52
EPA 300.0 Rev. 2.1	Chloride	100	95.2	98.7		3.46	
	Sulfate	101	96.6	95.1		4.46	
EPA 350.1 Rev. 2.0	Ammonia-N	101	99.2	99.8			0.455
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101	105	103			0.808
EPA 353.2 Rev. 2.0	NO2NO3-N	97.5	98.3	98.8			0.451
EPA 365.1 Rev. 2.0	Total-P	105	104	107			2.56
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	97.7	99.4			1.63
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	83.3	68.3	61.9			5.38
	Acetochlor	106	103	111			7.32
	Alachlor	94.0	87.7	97.3			10.4
	Aldrin	38.7	60.2	63.6			5.48
	Alpha-BHC	87.5	93.8	89.8			4.41
	Alpha-Chlordane	72.8	75.2	60.1			22.3
	Ametryn	138	118	141			17.6
	Atrazine	111	115	126			7.88
	Atrazine Desethyl	94.0	84.2	97.4			14.5
	Avobenzone	108	97.2	89.4			8.36
	Azinphos Methyl	136	166	187			11.6
	Azoxystrobin	154	137	149			8.33
	Beta-BHC	80.6	86.6	96.9			11.2
	Beta-Cyfluthrin	66.3	100	107			6.39
	Bifenthrin	48.2	88.3	88.4			0.0442
	Bromacil	91.1	99.1	113			13.4

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Butylate	67.0	48.6	73.3			40.5
	Caffeine	89.7	82.6	84.9			2.74
	Carbophenothion	112	109	116			6.37
	Carfentrazone Ethyl	105	102	113			10.2
	Chlorfenapyr	82.2	96.0	95.6			0.418
	Chlorothalonil	94.8	3.46	0.683			
	Chlorpyrifos Ethyl	99.7	99.1	105			5.61
	Chlorpyrifos Methyl	61.7	143	151			5.46
	Cis-Nonachlor	64.4	70.5	68.3			3.15
	Coumaphos	99.2	97.3	117			18.4
	Cyanazine	190	185	184			0.819
	Cypermethrin	66.3	112	104			7.53
	Cyprodinil	126	118	130			9.69
	Dacthal	85.3	85.5	85.1			0.507
	DDD-p,p'	65.8	87.4	88.2			0.908
	DDE-p,p'	65.4	74.8	69.9			6.73
	DDT-p,p'	61.8	73.7	72.2			2.07
	Dechlorane Plus	110	92.8	88.5			4.79
	Delta-BHC	86.2	93.0	95.0			2.11
	Deltamethrin	77.9	121	130			7.25
	Demeton	110	123	132			7.38
	Diazinon	118	118	126			6.51
	Dichlobenil	70.3	41.6	45.3			8.53
	Dicofol	69.1	81.6	82.8			1.49
	Dieldrin	74.7	79.6	79.4			0.192
	Difenoconazole	103	141	165			15.8
	Dimethenamid	71.9	77.3	83.9			8.24
	Dimethomorph	174	167	198			17.0
	Disulfoton	114	130	124			4.46
	Dithiopyr	95.6	98.6	101			2.37
	Endosulfan I	74.2	82.3	78.1			5.21
	Endosulfan II	85.6	98.5	126			24.1
	Endosulfan Sulfate	76.1	72.2	78.6			8.43
	Endrin	74.7	78.6	77.8			1.09
	Endrin Aldehyde	75.7	47.9	24.7			63.9
	Endrin Ketone	95.1	81.2	86.5			6.34
	EPTC	61.7	39.5	65.6			49.7
	Esfenvalerate	69.3	106	110			3.44
	Ethalfluralin	72.7	82.2	88.3			7.06
	Ethion	47.8	68.3	56.0			19.8
	Ethoprop	71.8	144	160			11.1
	Etridiazole	85.7	66.1	95.3			36.1
	Fenamiphos	76.6	98.5	103			4.52
	Fenbuconazole	117	112	128			13.3
	Fenpropathrin	65.1	79.3	78.8			0.591
	Fipronil	91.6	91.4	99.7			8.70
	Fipronil Desulfinyl	102	97.3	103			5.40
	Fipronil Sulfide	95.9	86.3	85.7			0.641
	Fipronil Sulfone	98.5	74.9	81.2			8.12
	Fluazifop-P-butyl	100	91.1	95.6			4.79
	Fludioxonil	85.1	87.6	92.3			5.26
	Flumioxazin	158	201	244			19.0
	Flutolanil	93.0	111	115			3.86
	Fluxapyroxad	94.2	96.2	108			11.5

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Fonofos	65.0	136	139			2.41
	Gamma-BHC	91.7	101	86.1			15.9
	Gamma-Chlordane	64.3	76.7	72.6			5.47
	Heptachlor	60.1	74.0	78.4			5.74
	Heptachlor Epoxide	75.4	81.8	81.3			0.580
	Hexachlorobenzene	51.8	61.6	63.4			2.88
	Hexazinone	112	105	111			5.27
	Imazalil	106	106	102			4.24
	Iprodione	85.0	97.2	105			7.87
	Kepone	118	87.2	101			14.8
	Lambda-Cyhalothrin	56.0	102	132			25.6
	Loratadine	183	158	178			11.7
	Malathion	107	109	125			13.2
	Metalaxyl	94.9	87.6	95.9			9.11
	Methoprene	53.9	83.1	80.7			2.98
	Methoxychlor	75.0	88.6	88.3			0.362
	Metolachlor	105	104	111			6.56
	Metribuzin	117	117	129			9.88
	Mevinphos	105	94.7	122			25.6
	MGK-264	67.5	52.0	52.8			1.64
	Mirex	52.9	72.5	70.7			2.60
	Molinate	77.4	67.5	86.2			24.4
	Myclobutanil	93.1	93.4	100			6.82
	Naled	109	82.8	106			24.9
	Napropamide	72.7	94.3	95.7			1.45
	Norflurazon	117	79.9	81.4			1.92
	Octinoxate	93.1	76.2	68.3			11.0
	Oxadiazon	103	99.6	104			4.56
	Oxybenzone	83.8	67.0	62.6			6.87
	Oxybenzone	89.3	64.1	64.4			0.365
	Oxychlordane	70.4	79.5	76.2			4.18
	Oxyfluorfen	82.4	80.9	78.2			3.44
	Parathion Ethyl	114	108	126			14.9
	Parathion Methyl	160	155	158			2.22
	PBDE-47	87.2	73.7	68.1			7.98
	PBDE-99	82.7	73.5	68.3			7.36
	PCB-1016	77.9	71.9	76.7			6.43
	PCB-1260	83.5	73.5	75.7			2.92
	Pendimethalin	72.3	93.0	93.6			0.664
	Permethrin	65.9	97.1	95.8			1.37
	Phenothrin	44.0	87.7	89.0			1.52
	Phenytoin	17.5	37.1	42.1			12.8
	Phorate	107	111	121			9.05
	Piperonyl Butoxide	91.4	68.6	71.1			3.60
	Prallethrin	59.8	74.5	69.7			6.65
	Prodiamine	72.6	42.8	45.1			5.26
	Prometon	74.3	87.3	77.6			11.8
	Prometryn	80.5	93.2	83.3			11.2
	Pronamide	88.7	109	116			6.26
	Propanil	103	112	121			7.71
	Propargite	66.6	87.5	93.0			6.15
	Propiconazole	60.4	96.1	131			30.6
	Pyraflufen Ethyl	82.3	90.1	113			22.1
	Pyridaben	120	129	140			8.60

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Pyriproxyfen	95.9	108	108			0.142
	Simazine	94.8	102	114			11.3
	Stirophos	59.7	83.7	93.8			11.4
	Sulfentrazone	58.6	84.7	97.1			13.6
	Tau-Fluvalinate	55.4	104	102			2.30
	Tebuconazole	45.3	65.6	66.8			1.78
	Terbufos	81.0	172	176			2.14
	Terbuthylazine	90.5	91.7	97.9			6.53
	Tetramethrin	72.8	127	136			6.48
	Thiobencarb	85.1	85.3	97.3			13.1
	Trans-Nonachlor	63.9	76.8	74.6			2.93
	Tri-o-cresyl Phosphate	90.0	78.8	70.1			11.7
	Triadimefon	84.5	96.1	99.9			3.83
	Triclosan Methyl	74.3	77.7	75.5			2.86
	Trifluralin	72.7	82.3	83.8			1.86
EPA 8276	Chlordane	95.7	77.9	86.4			7.72
	Toxaphene	100	90.6	109			8.92
EPA 8321B	2,4-D	102	108	102			6.37
	2,4,5-T	76.0	80.2	74.0			8.04
	3-Hydroxycarbofuran	89.0	92.1	87.0			5.66
	Acesulfame K	74.1	77.0	95.0			21.0
	Acetaminophen	95.1	103	100			3.22
	Acetamiprid	83.1	87.9	83.9			4.61
	Afidopyropen	64.9	64.1	70.2			9.12
	Aldicarb	64.4	74.1	70.0			5.68
	Aldicarb Sulfone	85.8	100	96.8			3.26
	Aldicarb Sulfoxide	96.7	50.8	50.1			1.32
	AMPA	106	99.4	99.4			0.0072
	Bentazon	69.1	70.5	75.8			7.20
	Benzovindiflupyr	85.1	93.9	88.2			6.34
	Carbamazepine	81.2	86.2	83.4			3.33
	Carbaryl	79.7	63.1	62.3			1.35
	Carbofuran	75.1	52.8	49.5			6.34
	Clothianidin	93.6	100	103			2.29
	Dinotefuran	95.1	103	97.9			4.92
	Diuron	69.3	79.8	76.3			4.49
	Endothall	97.9	103	100			2.13
	Fenuron	93.5	100	101			0.949
	Fluridone	78.0	78.9	81.6			3.36
	Glufosinate	100	111	110			0.419
	Glyphosate	98.6	97.5	102			4.40
	Hydrocodone	86.3	90.1	92.1			2.16
	Ibuprofen	96.7	99.9	92.6			7.56
	Imazapyr	83.6	90.6	89.4			1.32
	Imidacloprid	85.4	92.5	91.9			0.616
	Linuron	77.2	81.9	80.5			1.69
	Mandestrobin	91.0	94.3	99.3			5.14
	MCPP	102	105	96.5			8.12
	Methiocarb	62.8	58.9	59.4			0.895
	Methomyl	90.0	85.0	80.8			5.14
	Naproxen	87.6	89.4	66.8			29.0
	Oxamyl	89.3	91.3	93.0			1.79
	Primidone	89.9	95.7	95.6			0.111
	Propoxur	71.9	47.1	51.8			9.43

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Pyraclostrobin	78.4	88.7	85.3			3.99
	Silvex	82.2	78.6	88.1			11.4
	Sucralose	113	112	110			0.765
	Thiamethoxam	86.6	95.2	95.2			0.0381
	Tolfenpyrad	40.8	50.0	42.3			16.5
	Triclopyr	73.2	87.9	74.1			17.0
SM 2320 B-2011	Total Alkalinity	96.0				1.63	
SM 2540 C-2015	TDS	96.7				5.39	
	TDS	92.2				5.86	
SM 2540 D-2015	TSS	101					
	TSS	95.2					
SM 4500-F- C-2011	Fluoride	102	101	99.5			1.02
SM 5310 B-2011	Organic Carbon	94.4	94.5	95.6			0.881

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2375137, 2375140
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2375137, 2375140
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2375148, 2378730
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2375148, 2378730
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2375137, 2375140
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2375137, 2375140
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2375138, 2375141
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2375138, 2375141
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2375138, 2375141
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2375138, 2375141
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2375139, 2375159
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2375146, 2375147
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2375145
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2375146, 2375147
EPA 8270E	PCBs in water matrices by GC/MS/MS	2375145
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2375145
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2375143
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2375144
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2375137, 2375140
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2375137, 2375140
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2375137, 2375140
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2375137, 2375140
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2375138, 2375141

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	12/14/2022			12/14/2022 14:45	Alexis Price	2375137
	12/14/2022			12/14/2022 14:46	Alexis Price	2375140
EPA 180.1 Rev. 2.0	12/14/2022			12/14/2022 13:37	Chandler E Cox	2375137
	12/14/2022			12/14/2022 13:38	Chandler E Cox	2375140
EPA 200.7 Rev. 4.4	12/14/2022	12/15/2022 13:35	George D Taylor	12/21/2022 10:49	McKinley C Carter	2375148
	12/14/2022	12/15/2022 13:35	George D Taylor	12/21/2022 10:54	McKinley C Carter	2378730
EPA 200.8 Rev. 5.4	12/14/2022	12/15/2022 13:35	George D Taylor	12/17/2022 01:18	Emily M Philpot	2375148
	12/14/2022	12/15/2022 13:35	George D Taylor	12/17/2022 01:27	Emily M Philpot	2378730
	12/14/2022	12/15/2022 13:35	George D Taylor	12/18/2022 20:56	Emily M Philpot	2375148
	12/14/2022	12/15/2022 13:35	George D Taylor	12/18/2022 21:03	Emily M Philpot	2378730
	12/14/2022	12/15/2022 13:35	George D Taylor	12/22/2022 18:09	Emily M Philpot	2375148
	12/14/2022	12/15/2022 13:35	George D Taylor	12/22/2022 18:15	Emily M Philpot	2378730
EPA 300.0 Rev. 2.1	12/14/2022			12/17/2022 10:17	Anna M. Plaviak	2375137
	12/14/2022			12/17/2022 10:33	Anna M. Plaviak	2375140
EPA 350.1 Rev. 2.0	12/14/2022			01/06/2023 10:58	Ping Hua	2375138
	12/14/2022			01/06/2023 11:12	Ping Hua	2375141
EPA 351.2 Rev. 2.0	12/14/2022	12/20/2022 13:35	Simonne.V. Calhoun	12/21/2022 11:32	Samantha L Bates	2375138
	12/14/2022	12/20/2022 13:35	Simonne.V. Calhoun	12/21/2022 11:34	Samantha L Bates	2375141
EPA 353.2 Rev. 2.0	12/14/2022			12/15/2022 10:04	Beverly Y. Sanders	2375138
	12/14/2022			12/15/2022 10:11	Beverly Y. Sanders	2375141
EPA 365.1 Rev. 2.0	12/14/2022	12/15/2022 15:15	Simonne.V. Calhoun	12/16/2022 13:01	James L Waggerby	2375141
	12/14/2022	12/15/2022 15:15	Simonne.V. Calhoun	12/16/2022 13:09	James L Waggerby	2375138
EPA 365.1 Rev. 2.0 dissolved	12/14/2022			12/14/2022 15:23	Elise M. Gillis	2375139
	12/14/2022			12/14/2022 15:24	Elise M. Gillis	2375159
EPA 8270E	12/14/2022	01/02/2023 09:00	Rasheda Ghaffari	01/05/2023 20:42	Arthur Maknenko	2375147
	12/14/2022	12/15/2022 10:00	Fe-Val Siddell	12/17/2022 22:20	Arthur Maknenko	2375146
	12/14/2022	12/15/2022 10:00	Fe-Val Siddell	12/17/2022 22:45	Arthur Maknenko	2375147
	12/14/2022	12/15/2022 10:00	Fe-Val Siddell	12/29/2022 19:02	Michael Poppell	2375146
	12/14/2022	12/15/2022 10:00	Fe-Val Siddell	12/29/2022 19:29	Michael Poppell	2375147
	12/14/2022	12/15/2022 10:00	Fe-Val Siddell	12/30/2022 16:03	Michael Poppell	2375146
	12/14/2022	12/19/2022 07:00	Fe-Val Siddell	12/20/2022 20:20	Vandana T. Nagar	2375145
	12/14/2022	12/19/2022 07:00	Fe-Val Siddell	12/21/2022 01:12	Vandana T. Nagar	2375145
EPA 8276	12/14/2022	12/19/2022 07:00	Fe-Val Siddell	12/21/2022 12:58	Arthur Maknenko	2375145
EPA 8321B	12/14/2022	12/16/2022 12:30	Manjita Shrestha	12/16/2022 13:29	Manjita Shrestha	2375144
	12/14/2022	12/16/2022 12:30	Manjita Shrestha	12/16/2022 21:15	Manjita Shrestha	2375144
	12/14/2022	12/19/2022 09:00	June Rhew	12/20/2022 15:20	Juyoung Kim	2375143
	12/14/2022	12/20/2022 08:30	June Rhew	12/20/2022 18:28	Juyoung Kim	2375144
SM 2320 B-2011	12/14/2022			12/23/2022 03:39	Dale L. Simmons	2375137
	12/14/2022			12/23/2022 03:48	Dale L. Simmons	2375140
SM 2540 C-2015	12/14/2022			12/15/2022 16:01	Yijie Li	2375137, 2375140

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2540 D-2015	12/14/2022			12/15/2022 16:01	Yijie Li	2375137, 2375140
SM 4500-F- C-2011	12/14/2022			12/20/2022 22:24	Dale L. Simmons	2375137
	12/14/2022			12/20/2022 22:33	Dale L. Simmons	2375140
SM 5310 B-2011	12/14/2022			12/16/2022 16:22	Khloe J Berg	2375138
	12/14/2022			12/16/2022 16:35	Khloe J Berg	2375141