

Chemical Analysis Report

SE-DIST-2024-01-30-01

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

Event Description: **SMP - Goat Creek/Local**
Request ID: **RQ-2024-01-29-18**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
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Certified by: Marek Topolski, Environmental Specialist III

Date Certified: 19-FEB-2024 14:16

A handwritten signature in black ink, appearing to read "Marek Topolski", with a stylized, flowing script.

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: 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: C 25 West of S99

Collection Date/Time: 01/29/2024 09:40

Field ID: G2SE0057

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2464091	DEP SOP: NU-094-1	Color (true)	130		PCU	P440645	
	EPA 180.1 Rev. 2.0	Turbidity	3.1		NTU	P440653	
	EPA 300.0 Rev. 2.1	Chloride	180		mg Cl/L	P441021	
		Sulfate	67		mg SO4/L	P441024	
	SM 2320 B-2011	Total Alkalinity	164		mg CaCO3/L	P440916	
	SM 2540 C-2015	TDS	584		mg/L	P441269	
	SM 2540 D-2015	TSS	6	I	mg/L	P441045	
	SM 4500-F- C-2011	Fluoride	0.26		mg F/L	P440921	
2464092	EPA 350.1 Rev. 2.0	Ammonia-N	0.040		mg N/L	P440723	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P440952	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.059		mg N/L	P440840	
	EPA 365.1 Rev. 2.0	Total-P	0.14		mg P/L	P440808	
	SM 5310 B-2014	Organic Carbon	22		mg C/L	P440890	
2464111	EPA 8321B	2,4-D	0.0020	U	ug/L	P440692	
		Acesulfame K	0.10	U	ug/L	P440589	
		2,4,5-T	0.0040	U	ug/L	P440692	
		AMPA	0.60		ug/L	P440589	
		Acetaminophen	0.0080	U	ug/L	P440692	
		Acetamiprid	0.0020	U	ug/L	P440692	
		Endothall	0.25	U	ug/L	P440589	
		Glufosinate	0.10	U	ug/L	P440589	
		Glyphosate	0.73		ug/L	P440589	
		Afidopyropen	0.0020	U	ug/L	P440692	
		Bentazon	8.1E-04	I	ug/L	P440692	
		Sucralose	0.010	U	ug/L	P440589	
		Benzovindiflupyr	0.0020	U	ug/L	P440692	
		Carbamazepine	8.0E-04	U	ug/L	P440692	
		Clothianidin	0.0095		ug/L	P440692	
		Dinotefuran	0.0020	U	ug/L	P440692	
		Diuron	0.0020	U	ug/L	P440692	
		Fenuron	0.032	U	ug/L	P440692	
		Fluridone	8.0E-04	U	ug/L	P440692	
		Imazapyr	0.061		ug/L	P440692	
		Hydrocodone	0.0020	U	ug/L	P440692	
		Ibuprofen	0.080	U	ug/L	P440692	
		Imidacloprid	0.033		ug/L	P440692	
		Linuron	0.0040	U	ug/L	P440692	
		Mandestrobin	0.0020	U	ug/L	P440692	
		MCPP	0.0020	U	ug/L	P440692	
		Naproxen	0.0080	U	ug/L	P440692	
		Primidone	0.0040	U	ug/L	P440692	
		Pyraclostrobin	0.0020	U	ug/L	P440692	
		Silvex	0.0040	U	ug/L	P440692	
		Thiamethoxam	0.0050	I	ug/L	P440692	

Field ID: G2SE0057

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2464111	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P440692	
		Triclopyr	0.0040	U	ug/L	P440692	

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

Sample Location: Belcher Canal near Johnston Rd

Collection Date/Time: 01/29/2024 10:00

Field ID: G5SE0149

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2464095	DEP SOP: NU-094-1	Color (true)	110		PCU	P440645	
	EPA 180.1 Rev. 2.0	Turbidity	3.0		NTU	P440653	
	EPA 300.0 Rev. 2.1	Chloride	170		mg Cl/L	P441021	
		Sulfate	64		mg SO4/L	P441024	
	SM 2320 B-2011	Total Alkalinity	176		mg CaCO3/L	P440906	
	SM 2540 C-2015	TDS	545		mg/L	P441269	
	SM 2540 D-2015	TSS	4	I	mg/L	P441045	
2464096	SM 4500-F- C-2011	Fluoride	0.28		mg F/L	P440909	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.042		mg N/L	P440724	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P440952	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.057		mg N/L	P440840	
	EPA 365.1 Rev. 2.0	Total-P	0.12		mg P/L	P440808	
2464113	SM 5310 B-2014	Organic Carbon	19		mg C/L	P440891	
	EPA 8321B	2,4-D	0.0047	I	ug/L	P440692	
		Acesulfame K	0.10	U	ug/L	P440589	
		2,4,5-T	0.0040	U	ug/L	P440692	
		AMPA	0.69		ug/L	P440589	
		Acetaminophen	0.0080	U	ug/L	P440692	
		Acetamiprid	0.0020	U	ug/L	P440692	
		Endothall	0.25	U	ug/L	P440589	
		Glufosinate	0.10	U	ug/L	P440589	
		Glyphosate	0.76		ug/L	P440589	
		Afidopyropen	0.0020	U	ug/L	P440692	
		Bentazon	9.3E-04	I	ug/L	P440692	
		Sucralose	0.018	I	ug/L	P440589	
		Benzovindiflupyr	0.0020	U	ug/L	P440692	
		Carbamazepine	8.0E-04	U	ug/L	P440692	
		Clothianidin	0.0094		ug/L	P440692	
		Dinotefuran	0.0020	U	ug/L	P440692	
		Diuron	0.0020	I	ug/L	P440692	
		Fenuron	0.032	U	ug/L	P440692	
		Fluridone	8.3E-04	I	ug/L	P440692	
		Imazapyr	0.059		ug/L	P440692	
		Hydrocodone	0.0020	U	ug/L	P440692	
		Ibuprofen	0.080	U	ug/L	P440692	
		Imidacloprid	0.040		ug/L	P440692	
		Linuron	0.0040	U	ug/L	P440692	
		Mandestrobin	0.0020	U	ug/L	P440692	
		MCPP	0.0020	U	ug/L	P440692	
		Naproxen	0.0080	U	ug/L	P440692	
		Primidone	0.0040	U	ug/L	P440692	
		Pyraclostrobin	0.0020	U	ug/L	P440692	
		Silvex	0.0040	U	ug/L	P440692	
		Thiamethoxam	0.0071	I	ug/L	P440692	

Field ID: G5SE0149

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2464113	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P440692	
		Triclopyr	0.0040	U	ug/L	P440692	

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

Sample Location: Fort Pierce Farm Canal at Taylor Dairy

Collection Date/Time: 01/29/2024 10:30

Field ID: G2SE0002

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2464089	DEP SOP: NU-094-1	Color (true)	60		PCU	P440645	
	EPA 180.1 Rev. 2.0	Turbidity	4.7		NTU	P440653	
	EPA 300.0 Rev. 2.1	Chloride	270		mg Cl/L	P441021	
		Sulfate	70		mg SO4/L	P441024	
	SM 2320 B-2011	Total Alkalinity	168		mg CaCO3/L	P440916	
	SM 2540 C-2015	TDS	716		mg/L	P441269	
	SM 2540 D-2015	TSS	5	I	mg/L	P441045	
	SM 4500-F- C-2011	Fluoride	0.35		mg F/L	P440921	
2464090	EPA 350.1 Rev. 2.0	Ammonia-N	0.043		mg N/L	P440723	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.82		mg N/L	P440952	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.16		mg N/L	P440840	
	EPA 365.1 Rev. 2.0	Total-P	0.13		mg P/L	P440808	
	SM 5310 B-2014	Organic Carbon	13		mg C/L	P440890	
2464109	EPA 8321B	Aldicarb	0.020	U	ug/L	P440598	
		Aldicarb Sulfone	0.0020	U	ug/L	P440598	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P440598	
		Carbaryl	0.0020	U	ug/L	P440598	
		Carbofuran	0.0020	U	ug/L	P440598	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P440598	
		Methiocarb	0.0020	U	ug/L	P440598	
		Methomyl	0.0020	U	ug/L	P440598	
		Oxamyl	0.0020	U	ug/L	P440598	
		Propoxur	0.0020	U	ug/L	P440598	
		2,4-D	0.023		ug/L	P440692	
		Acesulfame K	0.10	U	ug/L	P440589	
2464110		2,4,5-T	0.0040	U	ug/L	P440692	
		AMPA	1.8		ug/L	P440589	
		Acetaminophen	0.0080	U	ug/L	P440692	
		Acetamiprid	0.0042	I	ug/L	P440692	
		Endothall	0.25	U	ug/L	P440589	
		Glufosinate	0.10	U	ug/L	P440589	
		Glyphosate	1.5		ug/L	P440589	
		Afidopyropen	0.0020	U	ug/L	P440692	
		Bentazon	0.020		ug/L	P440692	
		Sucralose	0.52		ug/L	P440589	
		Benzovindiflupyr	0.0020	U	ug/L	P440692	
		Carbamazepine	0.0017	I	ug/L	P440692	
		Clothianidin	0.011		ug/L	P440692	
		Dinotefuran	0.0020	U	ug/L	P440692	
		Diuron	0.0020	U	ug/L	P440692	
		Fenuron	0.032	U	ug/L	P440692	
		Fluridone	0.026		ug/L	P440692	
		Imazapyr	0.047		ug/L	P440692	
		Hydrocodone	0.0020	U	ug/L	P440692	

Field ID: G2SE0002

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2464110	EPA 8321B	Ibuprofen	0.080	U	ug/L	P440692	
		Imidacloprid	0.020		ug/L	P440692	
		Linuron	0.0040	U	ug/L	P440692	
		Mandestrobin	0.0020	U	ug/L	P440692	
		MCP	0.0020	U	ug/L	P440692	
		Naproxen	0.0080	U	ug/L	P440692	
		Primidone	0.0044	I	ug/L	P440692	
		Pyraclostrobin	0.0020	U	ug/L	P440692	
		Silvex	0.0040	U	ug/L	P440692	
		Thiamethoxam	0.033		ug/L	P440692	
		Tolfenpyrad	0.0020	U	ug/L	P440692	
		Triclopyr	0.0040	U	ug/L	P440692	
2464114	EPA 8270E	Aldrin	0.67	U	ng/L	P440746	
		Alpha-BHC	0.10	U	ng/L	P440746	
		Alpha-Chlordane	0.55	I	ng/L	P440746	
		PCB-1016	2.1	U	ng/L	P440746	
		Beta-BHC	0.10	U	ng/L	P440746	
		PCB-1221	2.1	U	ng/L	P440746	
		Beta-Cyfluthrin	1.3	U	ng/L	P440746	
		PCB-1232	2.1	U	ng/L	P440746	
		Bifenthrin	0.51	U	ng/L	P440746	
		PCB-1242	2.1	U	ng/L	P440746	
		PCB-1248	2.1	U	ng/L	P440746	
		Chlorothalonil	3.7	U	ng/L	P440746	
		PCB-1254	2.1	U	ng/L	P440746	
		Cis-Nonachlor	0.21	UJ	ng/L	P440746	CCV, RPD
		PCB-1260	2.1	U	ng/L	P440746	
		Cypermethrin	1.5	U	ng/L	P440746	
		Dacthal	0.15	U	ng/L	P440746	
		DDD-p,p'	0.26	U	ng/L	P440746	
		DDE-p,p'	0.21	U	ng/L	P440746	
		DDT-p,p'	0.82	U	ng/L	P440746	
		Delta-BHC	0.41	U	ng/L	P440746	
		Deltamethrin	1.3	U	ng/L	P440746	
		Dichlobenil	0.26	U	ng/L	P440746	
		Dicofol	1.3	U	ng/L	P440746	
		Dieldrin	1.3	I	ng/L	P440746	
		Endosulfan I	0.41	U	ng/L	P440746	
		Endosulfan II	0.92	U	ng/L	P440746	
		Endosulfan Sulfate	0.31	U	ng/L	P440746	
		Endrin	0.92	U	ng/L	P440746	
		Endrin Aldehyde	0.77	UJ	ng/L	P440746	CCV
		Endrin Ketone	0.41	UJ	ng/L	P440746	CCV
		Esfenvalerate	0.77	U	ng/L	P440746	
		Ethalfuralin	0.15	U	ng/L	P440746	

Field ID: G2SE0002

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2464114	EPA 8270E	Fenpropathrin	0.26	U	ng/L	P440746	
		Gamma-BHC	0.13	U	ng/L	P440746	
		Gamma-Chlordane	0.57	I	ng/L	P440746	
		Heptachlor	0.21	U	ng/L	P440746	RPD
		Heptachlor Epoxide	0.26	UJ	ng/L	P440746	LCS
		Hexachlorobenzene**	1.0	U	ng/L	P440746	
		Kepone	14	U	ng/L	P440746	
		Lambda-Cyhalothrin	0.77	U	ng/L	P440746	
		Methoprene	0.77	U	ng/L	P440746	
		Methoxychlor	0.31	U	ng/L	P440746	
		MGK-264	0.21	U	ng/L	P440746	
		Mirex	0.36	U	ng/L	P440746	
		Oxychlordane	0.31	U	ng/L	P440746	
		Permethrin	1.6	U	ng/L	P440746	
		Phenothrin	0.92	U	ng/L	P440746	
		Piperonyl Butoxide	0.85		ng/L	P440746	
		Prallethrin	2.1	U	ng/L	P440746	
		Tau-Fluvalinate	0.26	U	ng/L	P440746	
		Tetramethrin	0.77	U	ng/L	P440746	
		Trans-Nonachlor	0.21	U	ng/L	P440746	
		Triclosan Methyl	0.15	U	ng/L	P440746	
		Trifluralin	0.21	U	ng/L	P440746	
	EPA 8276	Chlordane	7.0		ng/L	P440746	
		Toxaphene	15	U	ng/L	P440746	
2464115	EPA 8270E	Oxybenzone**	11	U	ng/L	P440627	
		Acetochlor	0.22	U	ng/L	P440627	
		Octinoxate**	160	U	ng/L	P440627	
		Alachlor	0.43	U	ng/L	P440627	
		Avobenzone**	110	U	ng/L	P440627	
		Ametryn	2.7	I	ng/L	P440627	
		Atrazine	16	J	ng/L	P440627	LCS
		PBDE-47**	4.3	U	ng/L	P440627	
		Atrazine Desethyl	1.4	U	ng/L	P440627	
		PBDE-99**	5.4	U	ng/L	P440627	
		Azinphos Methyl	3.2	U	ng/L	P440627	
		Tri-o-cresyl Phosphate**	6.5	U	ng/L	P440627	
		Azoxystrobin	4.3		ng/L	P440627	
		Bromacil	0.65	U	ng/L	P440627	
		2-Ethylhexyl	13	U	ng/L	P440627	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.48	U	ng/L	P440627	RPD
		Dechlorane Plus**	32	U	ng/L	P440627	
		Caffeine**	8.1	U	ng/L	P440627	
		Dechlorane 602**	5.4	U	ng/L	P440627	
		Carbophenothion	0.54	U	ng/L	P440627	

Field ID: G2SE0002

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2464115	EPA 8270E	Dechlorane 603**	4.3	U	ng/L	P440627	
		Carfentrazone Ethyl	0.16	U	ng/L	P440627	
		Hexabromobenzene**	6.5	U	ng/L	P440627	
		Chlorfenapyr	0.32	U	ng/L	P440627	
		PBB-153**	6.5	U	ng/L	P440627	
		Chlorpyrifos Ethyl	0.32	U	ng/L	P440627	
		Pentabromotoluene**	3.2	U	ng/L	P440627	
		Chlorpyrifos Methyl	0.11	U	ng/L	P440627	
		Tris(2-chloroethyl) phosphate (TCEP)**	59	U	ng/L	P440627	
		Coumaphos	1.1	U	ng/L	P440627	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	27	U	ng/L	P440627	
		Cyanazine	5.4	U	ng/L	P440627	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.7	U	ng/L	P440627	
		Cyprodinil	0.22	U	ng/L	P440627	
		Tetradecachloro-m-terphenyl**	8.1	U	ng/L	P440627	
		Demeton	3.8	U	ng/L	P440627	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	65	U	ng/L	P440627	
		Diazinon	0.13	U	ng/L	P440627	
		Difenoconazole	0.65	U	ng/L	P440627	
		Dimethenamid	0.11	U	ng/L	P440627	
		Dimethomorph	0.32	U	ng/L	P440627	
		Disulfoton	0.65	U	ng/L	P440627	
		Dithiopyr	1.1	U	ng/L	P440627	
		EPTC	0.54	U	ng/L	P440627	RPD
		Ethion	0.32	U	ng/L	P440627	
		Ethoprop	0.13	U	ng/L	P440627	
		Etridiazole	0.11	U	ng/L	P440627	
		Fenamiphos	0.48	U	ng/L	P440627	
		Fenbuconazole	0.54	U	ng/L	P440627	
		Fipronil	0.22	UJ	ng/L	P440627	LCS
		Fipronil Desulfinyl**	0.20	I	ng/L	P440627	
		Fipronil Sulfide	0.39	I	ng/L	P440627	
		Fipronil Sulfone	0.46	I	ng/L	P440627	
		Fluazifop-P-butyl	0.11	U	ng/L	P440627	
		Fludioxonil	0.31	I	ng/L	P440627	
		Flumioxazin	3.2	U	ng/L	P440627	
		Flutolanil	0.11	U	ng/L	P440627	
		Fluxapyroxad	0.33	I	ng/L	P440627	
		Fonofos	0.16	U	ng/L	P440627	
		Hexazinone	0.54	U	ng/L	P440627	
		Imazalil	0.70	U	ng/L	P440627	
		Iprodione	0.54	U	ng/L	P440627	
		Loratadine**	0.32	U	ng/L	P440627	
		Malathion	6.3		ng/L	P440627	

Field ID: G2SE0002

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2464115	EPA 8270E	Metalaxyl	59		ng/L	P440627	
		Metolachlor	43		ng/L	P440627	
		Metribuzin	0.78	I	ng/L	P440627	
		Mevinphos	1.1	U	ng/L	P440627	
		Molinate	0.27	U	ng/L	P440627	
		Myclobutanil	0.38	U	ng/L	P440627	
		Naled	2.7	U	ng/L	P440627	
		Napropamide	0.75	U	ng/L	P440627	
		Norflurazon	82		ng/L	P440627	
		Oxadiazon	0.91	I	ng/L	P440627	
		Oxyfluorfen	0.22	U	ng/L	P440627	
		Parathion Ethyl	0.16	UJ	ng/L	P440627	LCS
		Parathion Methyl	0.22	U	ng/L	P440627	
		Pendimethalin	1.8	U	ng/L	P440627	
		Phenytain**	5.7	U	ng/L	P440627	
		Phorate	0.27	U	ng/L	P440627	
		Prodiamine	0.22	U	ng/L	P440627	
		Prometon	3.2	U	ng/L	P440627	
		Prometryn	0.38	U	ng/L	P440627	
		Pronamide	0.11	U	ng/L	P440627	
		Propanil	0.11	U	ng/L	P440627	
		Propargite	0.86	U	ng/L	P440627	
		Propiconazole	0.65	U	ng/L	P440627	
		Pyraflufen Ethyl	0.32	U	ng/L	P440627	
		Pyridaben	1.5	U	ng/L	P440627	
		Pyriproxyfen	0.27	U	ng/L	P440627	
		Simazine	0.27	U	ng/L	P440627	
		Stirophos	0.43	U	ng/L	P440627	
		Sulfentrazone	4.9	I	ng/L	P440627	
		Tebuconazole	1.5	U	ng/L	P440627	
		Terbufos	0.22	U	ng/L	P440627	
		Terbutylazine	0.22	U	ng/L	P440627	
		Thiobencarb	0.54	U	ng/L	P440627	
		Triadimefon	0.16	U	ng/L	P440627	

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

Sample Location: Goat Creek at Gradick

Collection Date/Time: 01/29/2024 12:00

Field ID: G5SE0080

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2464093	DEP SOP: NU-094-1	Color (true)	160		PCU	P440645	
	EPA 180.1 Rev. 2.0	Turbidity	3.5		NTU	P440653	
	EPA 300.0 Rev. 2.1	Chloride	190		mg Cl/L	P441021	
		Sulfate	29		mg SO4/L	P441024	
	SM 2320 B-2011	Total Alkalinity	124		mg CaCO3/L	P440906	
	SM 2540 C-2015	TDS	511		mg/L	P441269	
	SM 2540 D-2015	TSS	4	I	mg/L	P441045	
	SM 4500-F- C-2011	Fluoride	0.20		mg F/L	P440909	
2464094	EPA 350.1 Rev. 2.0	Ammonia-N	0.067		mg N/L	P440723	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.82		mg N/L	P440953	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.13		mg N/L	P440840	
	EPA 365.1 Rev. 2.0	Total-P	0.036		mg P/L	P440808	
	SM 5310 B-2014	Organic Carbon	20		mg C/L	P440891	
2464112	EPA 8321B	2,4-D	0.095		ug/L	P440692	
		Acesulfame K	0.10	I	ug/L	P440589	
		2,4,5-T	0.0040	U	ug/L	P440692	
		AMPA	0.19	I	ug/L	P440589	
		Acetaminophen	0.0080	U	ug/L	P440692	
		Acetamiprid	0.0020	U	ug/L	P440692	
		Endothall	0.25	U	ug/L	P440589	
		Glufosinate	0.10	U	ug/L	P440589	
		Glyphosate	0.59		ug/L	P440589	
		Afidopyropen	0.0020	U	ug/L	P440692	
		Bentazon	0.0010	I	ug/L	P440692	
		Sucralose	0.18		ug/L	P440589	
		Benzovindiflupyr	0.0020	U	ug/L	P440692	
		Carbamazepine	8.0E-04	U	ug/L	P440692	
		Clothianidin	0.0020	U	ug/L	P440692	
		Dinotefuran	0.0020	U	ug/L	P440692	
		Diuron	0.0036	I	ug/L	P440692	
		Fenuron	0.032	U	ug/L	P440692	
		Fluridone	8.0E-04	U	ug/L	P440692	
		Imazapyr	0.059		ug/L	P440692	
		Hydrocodone	0.0020	U	ug/L	P440692	
		Ibuprofen	0.080	U	ug/L	P440692	
		Imidacloprid	0.0020	U	ug/L	P440692	
		Linuron	0.0040	U	ug/L	P440692	
		Mandestrobin	0.0020	U	ug/L	P440692	
		MCPP	0.0020	U	ug/L	P440692	
		Naproxen	0.0080	U	ug/L	P440692	
		Primidone	0.0040	U	ug/L	P440692	
		Pyraclostrobin	0.0020	U	ug/L	P440692	
		Silvex	0.0040	U	ug/L	P440692	
		Thiamethoxam	0.0020	U	ug/L	P440692	

Field ID: G5SE0080

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2464112	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P440692	
		Triclopyr	0.0040	U	ug/L	P440692	

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

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P440645

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P440653

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P441021

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P441024

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P440723

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P440724

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P440952

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P440953

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P440840

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P440808

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

Reference Method: EPA 8270E

Batch ID: P440627

Component	Result	Code	Units
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	60	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.45	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P440627

Component	Result	Code	Units
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Metaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	150	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	6.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.7	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	25	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	55	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P440746

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.80	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	14	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
Batch ID: P440746

Component	Result	Code	Units
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276
Batch ID: P440746

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

Reference Method: EPA 8321B
Batch ID: P440589

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: P440598

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

Reference Method: EPA 8321B
Batch ID: P440692

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P440692

Component	Result	Code	Units
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011

Batch ID: P440906

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

Reference Method: SM 2320 B-2011

Batch ID: P440916

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

Reference Method: SM 2540 C-2015

Batch ID: P441269

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P441045

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P440909

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011

Batch ID: P440921

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 5310 B-2014
Batch ID: P440890

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

Reference Method: SM 5310 B-2014
Batch ID: P440891

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: P440645

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	102		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P440653

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P441021

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P441024

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P440723

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P440724

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P440952

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P440953

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P440840

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P440808

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

Reference Method: EPA 8270E

Batch ID: P440627

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	68.8		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	61.1		P	37 - 154
Acetochlor	69.2		P	64 - 124
Alachlor	62.6		P	61 - 118
Ametryn	91.2		P	47 - 158
Atrazine	62.6		F	68 - 121
Atrazine Desethyl	70.9		P	30 - 119
Avobenzone	84.2		P	48 - 193
Azinphos Methyl	130		P	30 - 194
Azoxystrobin	74.4		P	58 - 154
Bromacil	74.5		P	47 - 126
Butylate	41.8		P	31 - 83.0
Caffeine	91.8		P	10 - 180
Carbophenothion	88.6		P	59 - 133
Carfentrazone Ethyl	94.0		P	59 - 147
Chlorfenapyr	63.5		P	52 - 118
Chlorpyrifos Ethyl	75.1		P	59 - 119
Chlorpyrifos Methyl	92.3		P	65 - 123
Coumaphos	102		P	11 - 223
Cyanazine	90.6		P	63 - 250
Cyprodinil	75.4		P	52 - 143
Dechlorane 602	63.8		P	23 - 142
Dechlorane 603	62.4		P	51 - 171
Dechlorane Plus	58.2		P	46 - 161
Demeton	53.9		P	42 - 119
Diazinon	83.2		P	67 - 132
Difenoconazole	119		P	12 - 204
Dimethenamid	78.1		P	53 - 113
Dimethomorph	117		P	13 - 238
Disulfoton	76.1		P	56 - 126
Dithiopyr	73.1		P	58 - 127
EPTC	33.5		P	31 - 78.0
Ethion	60.5		P	24 - 127
Ethoprop	64.2		P	60 - 118
Etridiazole	44.7		P	32 - 91.0
Fenamiphos	68.9		P	54 - 129
Fenbuconazole	63.4		P	31 - 162
Fipronil	55.4		F	56 - 131
Fipronil Desulfinyl	86.5		P	58 - 132
Fipronil Sulfide	74.3		P	51 - 123
Fipronil Sulfone	86.4		P	50 - 125
Fluazifop-P-butyl	80.4		P	52 - 132
Fludioxonil	76.3		P	52 - 129
Flumioxazin	154		P	34 - 250
Flutolanil	79.3		P	45 - 128
Fluxapyroxad	79.3		P	31 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P440627

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fonofos	75.7		P	60 - 116
Hexabromobenzene	59.9		P	52 - 165
Hexazinone	69.8		P	59 - 120
Imazalil	65.2		P	39 - 134
Iprodione	74.0		P	39 - 243
Loratadine	100		P	10 - 240
Malathion	90.3		P	53 - 145
Metaxyl	64.4		P	59 - 120
Metolachlor	78.8		P	64 - 122
Metribuzin	67.0		P	33 - 128
Mevinphos	79.4		P	48 - 119
Molinate	44.0		P	42 - 89.0
Myclobutanil	64.5		P	54 - 129
Naled	40.4		P	10 - 138
Napropamide	60.9		P	40 - 122
Norflurazon	82.4		P	49 - 132
Octinoxate	63.9		P	29 - 176
Oxadiazon	61.8		P	50 - 115
Oxybenzone	65.9		P	45 - 145
Oxyfluorfen	97.6		P	62 - 149
Parathion Ethyl	65.6		F	68 - 119
Parathion Methyl	78.3		P	68 - 147
PBB-153	60.1		P	42 - 179
PBDE-47	60.3		P	44 - 141
PBDE-99	64.1		P	36 - 141
Pendimethalin	102		P	59 - 158
Pentabromotoluene	60.2		P	58 - 148
Phenytoin	49.6		P	10 - 151
Phorate	69.3		P	44 - 124
Prodiamine	49.6		P	10 - 136
Prometon	80.0		P	45 - 131
Prometryn	74.3		P	52 - 140
Pronamide	82.5		P	70 - 129
Propanil	116		P	54 - 144
Propargite	40.3		P	10 - 191
Propiconazole	70.3		P	49 - 128
Pyraflufen Ethyl	83.9		P	46 - 141
Pyridaben	81.9		P	29 - 198
Pyriproxyfen	80.3		P	33 - 221
Simazine	68.4		P	62 - 119
Stirophos	69.3		P	13 - 144
Sulfentrazone	72.6		P	12 - 152
Tebuconazole	60.6		P	10 - 135
Terbufos	73.9		P	67 - 136
Terbutylazine	68.8		P	66 - 113
Tetradecachloro-m-terphenyl	69.2		P	30 - 235
Thiobencarb	77.0		P	51 - 125
Tri-o-cresyl Phosphate	69.8		P	50 - 150
Triadimefon	62.2		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	78.9		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	74.5		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	95.1		P	59 - 166

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P440746

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	73.2		P	30 - 96.0
Alpha-BHC	87.9		P	70 - 109
Alpha-Chlordane	71.7		P	45 - 107
Beta-BHC	90.1		P	64 - 138
Beta-Cyfluthrin	129		P	17 - 141
Bifenthrin	70.9		P	10 - 113
Chlorothalonil	80.8		P	26 - 180
Cis-Nonachlor	74.0		P	37 - 102
Cypermethrin	92.1		P	20 - 133
Dacthal	80.7		P	69 - 114
DDD-p,p'	71.0		P	42 - 105
DDE-p,p'	80.0		P	42 - 106
DDT-p,p'	89.2		P	42 - 107
Delta-BHC	95.8		P	67 - 144
Deltamethrin	116		P	15 - 149
Dichlobenil	69.1		P	46 - 117
Dicofol	65.0		P	34 - 114
Dieldrin	80.6		P	50 - 108
Endosulfan I	79.4		P	55 - 104
Endosulfan II	97.9		P	51 - 111
Endosulfan Sulfate	71.2		P	56 - 121
Endrin	79.1		P	10 - 106
Endrin Aldehyde	86.8		P	34 - 114
Endrin Ketone	101		P	63 - 177
Esfenvalerate	99.2		P	29 - 143
Ethalfuralin	73.2		P	46 - 96.0
Fenpropathrin	77.7		P	28 - 115
Gamma-BHC	111		P	65 - 121
Gamma-Chlordane	92.2		P	39 - 103
Heptachlor	88.9		P	39 - 94.0
Heptachlor Epoxide	112		F	54 - 104
Hexachlorobenzene	48.7		P	36 - 100
Kepone	76.1		P	10 - 225
Lambda-Cyhalothrin	85.1		P	10 - 135
Methoprene	104		P	10 - 109
Methoxychlor	88.7		P	52 - 112
MGK-264	81.7		P	44 - 117
Mirex	66.8		P	20 - 90.0
Oxychlordane	83.1		P	44 - 102
PCB-1016	72.8		P	45 - 107
PCB-1260	90.1		P	40 - 118
Permethrin	81.6		P	18 - 135
Phenothrin	65.4		P	10 - 102
Piperonyl Butoxide	90.9		P	28 - 156
Prallethrin	69.3		P	28 - 113
Tau-Fluvalinate	84.3		P	10 - 123
Tetramethrin	109		P	18 - 158
Trans-Nonachlor	79.2		P	39 - 104
Triclosan Methyl	101		P	54 - 108
Trifluralin	75.0		P	46 - 97.0

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8276

Batch ID: P440746

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	112		P	52 - 117
Toxaphene	113		P	44 - 125

Reference Method: EPA 8321B

Batch ID: P440589

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	121		P	40 - 150
AMPA	114		P	40 - 160
Endothall	92.1		P	40 - 160
Glufosinate	95.9		P	40 - 160
Glyphosate	101		P	40 - 160
Sucralose	82.5		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P440598

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	93.4		P	40 - 150
Aldicarb	70.7		P	30 - 150
Aldicarb Sulfone	107		P	40 - 150
Aldicarb Sulfoxide	130		P	40 - 150
Carbaryl	99.3		P	40 - 150
Carbofuran	92.4		P	40 - 150
Methiocarb	78.8		P	40 - 150
Methomyl	102		P	40 - 150
Oxamyl	101		P	40 - 150
Propoxur	91.5		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P440692

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	93.9		P	40 - 150
2,4,5-T	103		P	40 - 150
Acetaminophen	86.4		P	30 - 150
Acetamiprid	84.1		P	40 - 150
Afidopyropen	68.1		P	30 - 150
Bentazon	81.9		P	30 - 150
Benzovindiflupyr	81.9		P	40 - 150
Carbamazepine	84.7		P	40 - 150
Clothianidin	91.9		P	40 - 150
Dinotefuran	100		P	40 - 150
Diuron	77.7		P	40 - 150
Fenuron	93.3		P	40 - 150
Fluridone	90.3		P	40 - 150
Hydrocodone	101		P	40 - 150
Ibuprofen	70.8		P	40 - 150
Imazapyr	86.6		P	40 - 150
Imidacloprid	89.6		P	40 - 150
Linuron	77.8		P	40 - 150
Mandestrobin	88.7		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P440692

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
MCP	83.4		P	40 - 150
Naproxen	70.5		P	40 - 150
Primidone	88.0		P	40 - 150
Pyraclostrobin	87.5		P	40 - 150
Silvex	82.1		P	40 - 150
Thiamethoxam	97.9		P	40 - 150
Tolfenpyrad	56.4		P	30 - 150
Triclopyr	112		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P440906

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.8		P	92 - 105

Reference Method: SM 2320 B-2011
Batch ID: P440916

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	94.3		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P441269

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	95.6		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P441045

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	96.0		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P440909

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

Reference Method: SM 4500-F- C-2011
Batch ID: P440921

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.9		P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P440890

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	100		P	85 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2014
Batch ID: P440891

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	101		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P441021

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2464082	Chloride	101		P	90 - 110
2464183	Chloride	95.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P441024

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2464082	Sulfate	98.7		P	90 - 110
2464183	Sulfate	96.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P440723

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2464064	Ammonia-N	97.8	98.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P440724

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2464096	Ammonia-N	102	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P440952

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2464128	Kjeldahl Nitrogen	110	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P440953

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2465863	Kjeldahl Nitrogen	96.6	99.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P440840

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2464054	NO2NO3-N	106	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440808

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2464077	Total-P	102	106	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P440627

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2465832	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	79.2	86.8	P/P	50 - 150
2465832	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	82.5	78.7	P/P	29 - 155

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P440627

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2465832	Acetochlor	75.3	99.6	P/P	60 - 124
2465832	Alachlor	76.8	83.9	P/P	54 - 122
2465832	Ametryn	88.6	107	P/P	51 - 208
2465832	Atrazine	72.5	73.1	P/P	57 - 131
2465832	Atrazine Desethyl	87.5	104	P/P	13 - 124
2465832	Avobenzone	105	106	P/P	35 - 187
2465832	Azinphos Methyl	167	169	P/P	43 - 276
2465832	Azoxystrobin	107	113	P/P	52 - 300
2465832	Bromacil	82.5	95.7	P/P	44 - 134
2465832	Butylate	32.7	61.3	P/P	23 - 82.0
2465832	Caffeine	150	201	P/P	10 - 277
2465832	Carbophenothion	102	104	P/P	47 - 135
2465832	Carfentrazone Ethyl	108	111	P/P	46 - 147
2465832	Chlorfenapyr	86.1	88.0	P/P	43 - 114
2465832	Chlorpyrifos Ethyl	80.7	97.8	P/P	47 - 124
2465832	Chlorpyrifos Methyl	95.4	107	P/P	60 - 135
2465832	Coumaphos	117	98.6	P/P	10 - 222
2465832	Cyanazine	107	112	P/P	10 - 257
2465832	Cyprodinil	89.9	93.1	P/P	42 - 148
2465832	Dechlorane 602	71.2	77.8	P/P	14 - 133
2465832	Dechlorane 603	77.4	72.6	P/P	18 - 191
2465832	Dechlorane Plus	68.7	69.9	P/P	23 - 154
2465832	Demeton	61.7	73.0	P/P	41 - 137
2465832	Diazinon	82.7	102	P/P	64 - 139
2465832	Difenoconazole	121	105	P/P	46 - 254
2465832	Dimethenamid	84.3	93.1	P/P	47 - 117
2465832	Dimethomorph	135	164	P/P	14 - 255
2465832	Disulfoton	90.6	114	P/P	52 - 130
2465832	Dithiopyr	88.4	92.8	P/P	40 - 121
2465832	EPTC	30.2	61.7	P/P	19 - 78.0
2465832	Ethion	53.5	75.5	P/P	12 - 124
2465832	Ethoprop	74.6	87.4	P/P	68 - 144
2465832	Etridiazole	45.8	69.5	P/P	26 - 96.0
2465832	Fenamiphos	102	108	P/P	41 - 129
2465832	Fenbuconazole	88.5	84.0	P/P	26 - 169
2465832	Fipronil	81.5	88.1	P/P	46 - 145
2465832	Fipronil Desulfinyl	94.2	101	P/P	47 - 136
2465832	Fipronil Sulfide	74.8	84.5	P/P	41 - 127
2465832	Fipronil Sulfone	95.1	94.5	P/P	35 - 133
2465832	Fluazifop-P-butyl	97.5	99.5	P/P	46 - 131
2465832	Fludioxonil	92.4	98.3	P/P	51 - 124
2465832	Flumioxazin	146	140	P/P	10 - 289
2465832	Flutolanil	74.9	84.5	P/P	34 - 130
2465832	Fluxapyroxad	79.7	79.8	P/P	10 - 197
2465832	Fonofos	80.7	98.6	P/P	42 - 131
2465832	Hexabromobenzene	79.3	76.2	P/P	47 - 178
2465832	Hexazinone	72.2	83.0	P/P	64 - 125
2465832	Imazalil	82.8	95.0	P/P	37 - 252
2465832	Iprodione	90.9	94.5	P/P	34 - 265
2465832	Loratadine	133	138	P/P	20 - 231
2465832	Malathion	88.1	107	P/P	34 - 164
2465832	Metalaxyl	65.3	73.8	P/P	49 - 125

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P440627

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2465832	Metolachlor	83.1	93.6	P/P	54 - 125
2465832	Metribuzin	81.7	78.2	P/P	51 - 139
2465832	Mevinphos	92.4	119	P/P	46 - 130
2465832	Molinate	43.0	60.6	P/P	39 - 93.0
2465832	Myclobutanil	80.0	91.5	P/P	50 - 130
2465832	Naled	45.3	64.3	P/P	10 - 150
2465832	Napropamide	70.1	85.9	P/P	10 - 109
2465832	Norflurazon	87.4	93.1	P/P	36 - 134
2465832	Octinoxate	75.0	80.9	P/P	18 - 170
2465832	Oxadiazon	69.6	74.5	P/P	43 - 112
2465832	Oxybenzone	80.3	86.3	P/P	33 - 154
2465832	Oxyfluorfen	99.2	110	P/P	62 - 154
2465832	Parathion Ethyl	77.6	89.6	P/P	65 - 120
2465832	Parathion Methyl	99.4	113	P/P	77 - 185
2465832	PBB-153	79.7	76.9	P/P	23 - 193
2465832	PBDE-47	58.4	66.7	P/P	31 - 139
2465832	PBDE-99	76.8	76.9	P/P	24 - 138
2465832	Pendimethalin	127	136	P/P	50 - 146
2465832	Pentabromotoluene	79.7	86.6	P/P	54 - 152
2465832	Phenytoin	52.4	66.7	P/P	10 - 157
2465832	Phorate	78.1	96.8	P/P	54 - 161
2465832	Prodiamine	60.6	57.8	P/P	29 - 160
2465832	Prometon	87.0	102	P/P	38 - 145
2465832	Prometryn	86.7	92.8	P/P	32 - 151
2465832	Pronamide	89.9	111	P/P	61 - 140
2465832	Propanil	144	132	P/P	50 - 147
2465832	Propargite	40.7	47.0	P/P	10 - 190
2465832	Propiconazole	76.2	67.6	P/P	30 - 146
2465832	Pyraflufen Ethyl	92.9	78.4	P/P	30 - 147
2465832	Pyridaben	116	111	P/P	15 - 195
2465832	Pyriproxyfen	83.7	89.9	P/P	31 - 218
2465832	Simazine	82.4	88.3	P/P	45 - 139
2465832	Stiropfos	72.6	83.7	P/P	10 - 134
2465832	Sulfentrazone	94.3	97.6	P/P	53 - 186
2465832	Tebuconazole	52.5	56.9	P/P	10 - 133
2465832	Terbufos	80.3	96.5	P/P	65 - 151
2465832	Terbuthylazine	73.4	84.9	P/P	62 - 117
2465832	Tetradecachloro-m-terphenyl	96.7	119	P/P	10 - 260
2465832	Thiobencarb	90.2	95.0	P/P	48 - 122
2465832	Tri-o-cresyl Phosphate	84.6	88.4	P/P	32 - 151
2465832	Triadimefon	71.9	90.4	P/P	46 - 124
2465832	Tris(1-chloro-2-propyl) phosphate (TCPP)	116	113	P/P	51 - 154
2465832	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	99.7	102	P/P	59 - 147
2465832	Tris(2-chloroethyl) phosphate (TCEP)	120	127	P/P	65 - 156

Reference Method: EPA 8270E
Batch ID: P440746

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2464603	PCB-1016	74.9	64.7	P/P	45 - 107
2464603	PCB-1260	93.7	84.8	P/P	40 - 112
2464765	Aldrin	61.8	79.5	P/P	24 - 81.0

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P440746

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2464765	Alpha-BHC	81.0	96.0	P/P	65 - 110
2464765	Alpha-Chlordane	57.4	76.4	P/P	43 - 119
2464765	Beta-BHC	75.9	84.9	P/P	54 - 165
2464765	Beta-Cyfluthrin	103	114	P/P	27 - 165
2464765	Bifenthrin	63.7	76.8	P/P	17 - 117
2464765	Chlorothalonil	69.2	94.0	P/P	10 - 255
2464765	Cis-Nonachlor	47.5	73.4	P/P	34 - 98.0
2464765	Cypermethrin	79.5	88.6	P/P	25 - 143
2464765	Dacthal	76.7	83.9	P/P	55 - 139
2464765	DDD-p,p'	67.7	77.0	P/P	30 - 109
2464765	DDE-p,p'	70.5	84.0	P/P	35 - 106
2464765	DDT-p,p'	67.7	81.9	P/P	41 - 101
2464765	Delta-BHC	83.7	101	P/P	58 - 165
2464765	Deltamethrin	93.6	116	P/P	10 - 194
2464765	Dichlobenil	65.2	68.3	P/P	22 - 114
2464765	Dicofol	56.7	65.8	P/P	17 - 133
2464765	Dieldrin	59.2	72.7	P/P	45 - 129
2464765	Endosulfan I	71.1	80.5	P/P	49 - 104
2464765	Endosulfan II	101	105	P/P	37 - 117
2464765	Endosulfan Sulfate	62.3	70.7	P/P	38 - 128
2464765	Endrin	62.2	61.6	P/P	35 - 116
2464765	Endrin Aldehyde	42.1	40.2	P/P	19 - 108
2464765	Endrin Ketone	131	114	P/P	44 - 134
2464765	Esfenvalerate	77.0	102	P/P	27 - 176
2464765	Ethalfuralin	71.0	78.7	P/P	49 - 100
2464765	Fenpropathrin	64.6	78.1	P/P	34 - 117
2464765	Gamma-BHC	112	126	P/P	59 - 129
2464765	Gamma-Chlordane	68.8	81.6	P/P	33 - 107
2464765	Heptachlor	63.5	88.0	P/P	37 - 94.0
2464765	Heptachlor Epoxide	94.4	105	P/P	38 - 118
2464765	Hexachlorobenzene	40.5	54.1	P/P	35 - 97.0
2464765	Kepone	76.9	96.8	P/P	10 - 221
2464765	Lambda-Cyhalothrin	64.0	69.9	P/P	23 - 190
2464765	Methoprene	87.9	99.2	P/P	21 - 109
2464765	Methoxychlor	75.9	91.3	P/P	46 - 118
2464765	MGK-264	80.2	94.5	P/P	39 - 122
2464765	Mirex	50.1	36.1	P/P	25 - 90.0
2464765	Oxychlordane	74.9	99.2	P/P	42 - 100
2464765	Permethrin	69.8	89.8	P/P	33 - 181
2464765	Phenothrin	55.8	67.7	P/P	12 - 125
2464765	Piperonyl Butoxide	94.4	81.2	P/P	10 - 178
2464765	Prallethrin	68.3	72.4	P/P	24 - 122
2464765	Tau-Fluvalinate	63.0	78.3	P/P	13 - 151
2464765	Tetramethrin	97.4	114	P/P	16 - 172
2464765	Trans-Nonachlor	84.1	78.5	P/P	39 - 100
2464765	Triclosan Methyl	93.1	90.9	P/P	43 - 110
2464765	Trifluralin	68.9	82.1	P/P	45 - 94.0

Reference Method: EPA 8276
Batch ID: P440746

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8276
Batch ID: P440746

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2464603	Chlordane	123	119	P/P	43 - 123
2464603	Toxaphene	142	136	P/P	27 - 156

Reference Method: EPA 8321B
Batch ID: P440589

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463994	Acesulfame K	125	127	P/P	40 - 150
2463994	AMPA	111	111	P/P	40 - 160
2463994	Endothall	98.5	98.0	P/P	40 - 160
2463994	Glufosinate	91.3	93.4	P/P	40 - 160
2463994	Glyphosate	100	102	P/P	40 - 160
2463994	Sucralose	86.4	85.1	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P440598

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2464029	3-Hydroxycarbofuran	95.4	79.3	P/P	40 - 150
2464029	Aldicarb	56.2	62.2	P/P	30 - 150
2464029	Aldicarb Sulfone	101	103	P/P	40 - 150
2464029	Aldicarb Sulfoxide	54.6	57.4	P/P	40 - 150
2464029	Carbaryl	92.8	88.6	P/P	40 - 150
2464029	Carbofuran	86.3	84.1	P/P	40 - 150
2464029	Methiocarb	83.9	74.5	P/P	40 - 150
2464029	Methomyl	92.6	92.3	P/P	40 - 150
2464029	Oxamyl	96.3	97.1	P/P	40 - 150
2464029	Propoxur	87.3	80.8	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P440692

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463994	2,4-D	93.5	106	P/P	40 - 150
2463994	2,4,5-T	89.0	103	P/P	40 - 150
2463994	Acetaminophen	99.9	103	P/P	30 - 150
2463994	Acetamiprid	84.9	88.7	P/P	40 - 150
2463994	Afidopyropen	77.2	60.6	P/P	30 - 150
2463994	Bentazon	42.0	44.8	P/P	30 - 150
2463994	Benzovindiflupyr	93.9	95.3	P/P	40 - 150
2463994	Carbamazepine	91.1	91.6	P/P	40 - 150
2463994	Clothianidin	109	110	P/P	40 - 150
2463994	Dinotefuran	116	118	P/P	40 - 150
2463994	Diuron	84.3	78.9	P/P	40 - 150
2463994	Fenuron	88.8	90.6	P/P	40 - 150
2463994	Fluridone	90.7	92.8	P/P	40 - 150
2463994	Hydrocodone	103	107	P/P	40 - 150
2463994	Ibuprofen	85.9	82.4	P/P	40 - 150
2463994	Imazapyr	107	110	P/P	40 - 150
2463994	Imidacloprid	126	128	P/P	40 - 150
2463994	Linuron	89.6	83.5	P/P	40 - 150
2463994	Mandestrobin	101	104	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P440692

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463994	MCP	90.1	91.6	P/P	40 - 150
2463994	Naproxen	78.2	67.1	P/P	40 - 150
2463994	Primidone	100	105	P/P	40 - 150
2463994	Pyraclostrobin	96.0	95.9	P/P	40 - 150
2463994	Silvex	85.3	92.8	P/P	40 - 150
2463994	Thiamethoxam	116	120	P/P	40 - 150
2463994	Tolfenpyrad	58.9	65.7	P/P	30 - 150
2463994	Triclopyr	95.7	103	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P440909

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2464261	Fluoride	99.8	98.4	P/P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P440921

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2464008	Fluoride	99.7	99.7	P/P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P440890

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2464009	Organic Carbon	99.2	100	P/P	85 - 115

Reference Method: SM 5310 B-2014
Batch ID: P440891

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2464094	Organic Carbon	99.9	102	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P440645

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2464122	Color (true)	0.666	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P440653

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2464006	Turbidity	3.28	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P441021

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2464082	Chloride	2.58	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P441024

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2464082	Sulfate	2.96	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P440723

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2464064	Ammonia-N	0.355	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P440724

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2464096	Ammonia-N	0.541	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P440952

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2464128	Kjeldahl Nitrogen	2.89	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P440953

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2465863	Kjeldahl Nitrogen	2.40	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P440840

Replicated					
Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2464054	NO2NO3-N	0.471	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440808

Replicated					
Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2464077	Total-P	2.99	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P440627

Replicated					
Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2465832	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	9.13	Spike	P	0 - 30
2465832	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	4.61	Spike	P	0 - 35
2465832	Acetochlor	27.8	Spike	P	0 - 28
2465832	Alachlor	8.85	Spike	P	0 - 30
2465832	Ametryn	18.9	Spike	P	0 - 32
2465832	Atrazine	0.783	Spike	P	0 - 33
2465832	Atrazine Desethyl	16.8	Spike	P	0 - 36
2465832	Avobenzone	1.40	Spike	P	0 - 35
2465832	Azinphos Methyl	1.07	Spike	P	0 - 62
2465832	Azoxystrobin	5.52	Spike	P	0 - 39
2465832	Bromacil	14.8	Spike	P	0 - 33
2465832	Butylate	60.7	Spike	F	0 - 51
2465832	Caffeine	28.9	Spike	P	0 - 100
2465832	Carbophenothion	1.64	Spike	P	0 - 34
2465832	Carfentrazone Ethyl	2.61	Spike	P	0 - 33
2465832	Chlorfenapyr	2.21	Spike	P	0 - 28
2465832	Chlorpyrifos Ethyl	19.1	Spike	P	0 - 31
2465832	Chlorpyrifos Methyl	11.9	Spike	P	0 - 27
2465832	Coumaphos	17.0	Spike	P	0 - 62
2465832	Cyanazine	4.77	Spike	P	0 - 48
2465832	Cyprodinil	3.48	Spike	P	0 - 29
2465832	Dechlorane 602	8.82	Spike	P	0 - 60
2465832	Dechlorane 603	6.38	Spike	P	0 - 40
2465832	Dechlorane Plus	1.66	Spike	P	0 - 38
2465832	Demeton	16.8	Spike	P	0 - 33
2465832	Diazinon	21.0	Spike	P	0 - 32
2465832	Difenoconazole	14.0	Spike	P	0 - 71
2465832	Dimethenamid	9.94	Spike	P	0 - 60
2465832	Dimethomorph	19.5	Spike	P	0 - 61
2465832	Disulfoton	22.8	Spike	P	0 - 30
2465832	Dithiopyr	4.84	Spike	P	0 - 28
2465832	EPTC	68.5	Spike	F	0 - 56
2465832	Ethion	34.1	Spike	P	0 - 79
2465832	Ethoprop	15.8	Spike	P	0 - 31
2465832	Etridiazole	41.1	Spike	P	0 - 43
2465832	Fenamiphos	5.37	Spike	P	0 - 43
2465832	Fenbuconazole	5.27	Spike	P	0 - 79

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P440627

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2465832	Fipronil	7.71	Spike	P	0 - 46
2465832	Fipronil Desulfanyl	7.15	Spike	P	0 - 36
2465832	Fipronil Sulfide	12.2	Spike	P	0 - 34
2465832	Fipronil Sulfone	0.661	Spike	P	0 - 47
2465832	Fluazifop-P-butyl	2.06	Spike	P	0 - 38
2465832	Fludioxonil	6.13	Spike	P	0 - 29
2465832	Flumioxazin	4.21	Spike	P	0 - 63
2465832	Flutolanil	12.0	Spike	P	0 - 36
2465832	Fluxapyroxad	0.120	Spike	P	0 - 65
2465832	Fonofos	19.9	Spike	P	0 - 35
2465832	Hexabromobenzene	3.98	Spike	P	0 - 41
2465832	Hexazinone	14.0	Spike	P	0 - 31
2465832	Imazalil	13.8	Spike	P	0 - 52
2465832	Iprodione	3.87	Spike	P	0 - 49
2465832	Loratadine	3.44	Spike	P	0 - 59
2465832	Malathion	19.1	Spike	P	0 - 77
2465832	Metalaxyl	12.2	Spike	P	0 - 76
2465832	Metolachlor	11.9	Spike	P	0 - 29
2465832	Metribuzin	4.33	Spike	P	0 - 51
2465832	Mevinphos	25.2	Spike	P	0 - 31
2465832	Molinate	34.1	Spike	P	0 - 39
2465832	Myclobutanil	13.4	Spike	P	0 - 34
2465832	Naled	34.7	Spike	P	0 - 37
2465832	Napropamide	20.3	Spike	P	0 - 100
2465832	Norflurazon	6.35	Spike	P	0 - 54
2465832	Octinoxate	7.61	Spike	P	0 - 35
2465832	Oxadiazon	6.82	Spike	P	0 - 34
2465832	Oxybenzone	7.20	Spike	P	0 - 35
2465832	Oxyfluorfen	10.3	Spike	P	0 - 28
2465832	Parathion Ethyl	14.4	Spike	P	0 - 31
2465832	Parathion Methyl	12.4	Spike	P	0 - 29
2465832	PBB-153	3.65	Spike	P	0 - 49
2465832	PBDE-47	13.2	Spike	P	0 - 36
2465832	PBDE-99	0.114	Spike	P	0 - 46
2465832	Pendimethalin	7.32	Spike	P	0 - 31
2465832	Pentabromotoluene	8.30	Spike	P	0 - 16
2465832	Phenytoin	24.0	Spike	P	0 - 100
2465832	Phorate	21.3	Spike	P	0 - 36
2465832	Prodiamine	4.68	Spike	P	0 - 68
2465832	Prometon	16.0	Spike	P	0 - 35
2465832	Prometryn	6.85	Spike	P	0 - 33
2465832	Pronamide	20.9	Spike	P	0 - 24
2465832	Propanil	8.19	Spike	P	0 - 28
2465832	Propargite	14.4	Spike	P	0 - 53
2465832	Propiconazole	12.0	Spike	P	0 - 44
2465832	Pyraflufen Ethyl	16.9	Spike	P	0 - 61
2465832	Pyridaben	4.29	Spike	P	0 - 43
2465832	Pyriproxyfen	7.15	Spike	P	0 - 82
2465832	Simazine	6.96	Spike	P	0 - 29
2465832	Stirophos	14.2	Spike	P	0 - 100
2465832	Sulfentrazone	3.44	Spike	P	0 - 64

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P440627

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2465832	Tebuconazole	8.05	Spike	P	0 - 76
2465832	Terbufos	18.3	Spike	P	0 - 29
2465832	Terbutylazine	14.6	Spike	P	0 - 28
2465832	Tetradecachloro-m-terphenyl	21.0	Spike	P	0 - 42
2465832	Thiobencarb	5.12	Spike	P	0 - 26
2465832	Tri-o-cresyl Phosphate	4.48	Spike	P	0 - 24
2465832	Triadimefon	22.8	Spike	P	0 - 40
2465832	Tris(1-chloro-2-propyl) phosphate (TCPP)	2.71	Spike	P	0 - 30
2465832	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.29	Spike	P	0 - 22
2465832	Tris(2-chloroethyl) phosphate (TCEP)	5.92	Spike	P	0 - 15

Reference Method: EPA 8270E
Batch ID: P440746

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2464603	PCB-1016	14.7	Spike	P	0 - 25
2464603	PCB-1260	9.94	Spike	P	0 - 30
2464765	Aldrin	25.0	Spike	P	0 - 41
2464765	Alpha-BHC	17.0	Spike	P	0 - 25
2464765	Alpha-Chlordane	15.8	Spike	P	0 - 32
2464765	Beta-BHC	11.3	Spike	P	0 - 33
2464765	Beta-Cyfluthrin	10.2	Spike	P	0 - 43
2464765	Bifenthrin	18.6	Spike	P	0 - 52
2464765	Chlorothalonil	30.4	Spike	P	0 - 82
2464765	Cis-Nonachlor	42.8	Spike	F	0 - 33
2464765	Cypermethrin	10.9	Spike	P	0 - 51
2464765	Dacthal	8.99	Spike	P	0 - 27
2464765	DDD-p,p'	12.8	Spike	P	0 - 39
2464765	DDE-p,p'	17.6	Spike	P	0 - 31
2464765	DDT-p,p'	15.2	Spike	P	0 - 29
2464765	Delta-BHC	19.0	Spike	P	0 - 35
2464765	Deltamethrin	21.3	Spike	P	0 - 100
2464765	Dichlobenil	4.67	Spike	P	0 - 40
2464765	Dicofol	14.8	Spike	P	0 - 37
2464765	Dieldrin	15.3	Spike	P	0 - 27
2464765	Endosulfan I	12.5	Spike	P	0 - 23
2464765	Endosulfan II	4.33	Spike	P	0 - 34
2464765	Endosulfan Sulfate	12.6	Spike	P	0 - 36
2464765	Endrin	0.856	Spike	P	0 - 45
2464765	Endrin Aldehyde	4.65	Spike	P	0 - 76
2464765	Endrin Ketone	13.5	Spike	P	0 - 43
2464765	Esfenvalerate	27.6	Spike	P	0 - 51
2464765	Ethalfuralin	10.4	Spike	P	0 - 22
2464765	Fenpropathrin	19.0	Spike	P	0 - 49
2464765	Gamma-BHC	12.0	Spike	P	0 - 28
2464765	Gamma-Chlordane	11.5	Spike	P	0 - 40
2464765	Heptachlor	32.4	Spike	F	0 - 29
2464765	Heptachlor Epoxide	8.38	Spike	P	0 - 33
2464765	Hexachlorobenzene	28.8	Spike	P	0 - 36
2464765	Kepone	22.9	Spike	P	0 - 85

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P440746

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2464765	Lambda-Cyhalothrin	8.80	Spike	P	0 - 55
2464765	Methoprene	12.0	Spike	P	0 - 53
2464765	Methoxychlor	18.5	Spike	P	0 - 50
2464765	MGK-264	16.3	Spike	P	0 - 43
2464765	Mirex	32.6	Spike	P	0 - 40
2464765	Oxychlordane	27.9	Spike	P	0 - 31
2464765	Permethrin	25.1	Spike	P	0 - 50
2464765	Phenothrin	19.3	Spike	P	0 - 58
2464765	Piperonyl Butoxide	13.7	Spike	P	0 - 100
2464765	Prallethrin	5.89	Spike	P	0 - 39
2464765	Tau-Fluvalinate	21.6	Spike	P	0 - 54
2464765	Tetramethrin	15.7	Spike	P	0 - 51
2464765	Trans-Nonachlor	5.07	Spike	P	0 - 39
2464765	Triclosan Methyl	2.39	Spike	P	0 - 31
2464765	Trifluralin	17.4	Spike	P	0 - 22

Reference Method: EPA 8276
Batch ID: P440746

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2464603	Chlordane	2.81	Spike	P	0 - 28
2464603	Toxaphene	3.92	Spike	P	0 - 27

Reference Method: EPA 8321B
Batch ID: P440589

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463994	Acesulfame K	1.20	Spike	P	0 - 30
2463994	AMPA	0.157	Spike	P	0 - 30
2463994	Endothall	0.529	Spike	P	0 - 30
2463994	Glufosinate	2.34	Spike	P	0 - 30
2463994	Glyphosate	1.63	Spike	P	0 - 30
2463994	Sucralose	1.60	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P440598

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2464029	3-Hydroxycarbofuran	18.3	Spike	P	0 - 30
2464029	Aldicarb	10.1	Spike	P	0 - 30
2464029	Aldicarb Sulfone	2.14	Spike	P	0 - 30
2464029	Aldicarb Sulfoxide	4.95	Spike	P	0 - 30
2464029	Carbaryl	4.68	Spike	P	0 - 30
2464029	Carbofuran	2.62	Spike	P	0 - 30
2464029	Methiocarb	11.9	Spike	P	0 - 30
2464029	Methomyl	0.350	Spike	P	0 - 30
2464029	Oxamyl	0.828	Spike	P	0 - 30
2464029	Propoxur	7.79	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P440692

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463994	2,4-D	12.1	Spike	P	0 - 30
2463994	2,4,5-T	14.7	Spike	P	0 - 30
2463994	Acetaminophen	3.07	Spike	P	0 - 30
2463994	Acetamiprid	4.38	Spike	P	0 - 30
2463994	Afidopyropen	24.0	Spike	P	0 - 30
2463994	Bentazon	6.35	Spike	P	0 - 30
2463994	Benzovindiflupyr	1.52	Spike	P	0 - 30
2463994	Carbamazepine	0.521	Spike	P	0 - 30
2463994	Clothianidin	1.23	Spike	P	0 - 30
2463994	Dinotefuran	1.37	Spike	P	0 - 30
2463994	Diuron	6.65	Spike	P	0 - 30
2463994	Fenuron	1.96	Spike	P	0 - 30
2463994	Fluridone	2.28	Spike	P	0 - 30
2463994	Hydrocodone	4.39	Spike	P	0 - 30
2463994	Ibuprofen	4.14	Spike	P	0 - 30
2463994	Imazapyr	2.06	Spike	P	0 - 30
2463994	Imidacloprid	2.00	Spike	P	0 - 30
2463994	Linuron	7.11	Spike	P	0 - 30
2463994	Mandestrobin	2.81	Spike	P	0 - 30
2463994	MCPP	1.61	Spike	P	0 - 30
2463994	Naproxen	15.3	Spike	P	0 - 30
2463994	Primidone	5.09	Spike	P	0 - 30
2463994	Pyraclostrobin	0.0905	Spike	P	0 - 30
2463994	Silvex	8.48	Spike	P	0 - 30
2463994	Thiamethoxam	2.78	Spike	P	0 - 30
2463994	Tolfenpyrad	10.9	Spike	P	0 - 30
2463994	Triclopyr	6.91	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P440906

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2464261	Total Alkalinity	0.699	Sample	P	0 - 3.9

Reference Method: SM 2320 B-2011
Batch ID: P440916

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2464008	Total Alkalinity	1.73	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P441269

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2464052	TDS	3.25	Sample	P	0 - 10

Quality Assurance Report
Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P440909

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2464261	Fluoride	0.927	Spike	P	0 - 1.9

Reference Method: SM 4500-F- C-2011
Batch ID: P440921

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2464008	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2014
Batch ID: P440890

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2464009	Organic Carbon	0.679	Spike	P	0 - 15

Reference Method: SM 5310 B-2014
Batch ID: P440891

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2464094	Organic Carbon	1.70	Spike	P	0 - 15

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

Quality Assurance Report

Surrogates

Lab Sample ID: 2464109

Field Sample ID: G2SE0002

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	74.1	P	30 - 160

Lab Sample ID: 2464110

Field Sample ID: G2SE0002

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	91.6	P	30 - 160
EPA 8321B	Acetaminophen-d4	88.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	78.5	P	30 - 160
EPA 8321B	Diuron-d6	69.3	P	30 - 160
EPA 8321B	Endothall-d6	107	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	97.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	72.1	P	30 - 160
EPA 8321B	Primidone-d5	89.9	P	30 - 160
EPA 8321B	Sucralose-d6	67.3	P	30 - 160

Lab Sample ID: 2464111

Field Sample ID: G2SE0057

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	84.0	P	30 - 160
EPA 8321B	Acetaminophen-d4	82.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	73.9	P	30 - 160
EPA 8321B	Diuron-d6	65.1	P	30 - 160
EPA 8321B	Endothall-d6	102	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	102	P	30 - 160
EPA 8321B	Ibuprofen-d3	74.6	P	30 - 160
EPA 8321B	Primidone-d5	84.8	P	30 - 160
EPA 8321B	Sucralose-d6	60.6	P	30 - 160

Lab Sample ID: 2464112

Field Sample ID: G5SE0080

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	78.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	75.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	67.3	P	30 - 160
EPA 8321B	Diuron-d6	58.0	P	30 - 160
EPA 8321B	Endothall-d6	99.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	97.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	61.6	P	30 - 160
EPA 8321B	Primidone-d5	67.9	P	30 - 160
EPA 8321B	Sucralose-d6	66.8	P	30 - 160

Lab Sample ID: 2464113

Field Sample ID: G5SE0149

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	81.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	82.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	72.4	P	30 - 160
EPA 8321B	Diuron-d6	64.1	P	30 - 160

Quality Assurance Report

Surrogates

Lab Sample ID: 2464113

Field Sample ID: G5SE0149

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Endothall-d6	104	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	101	P	30 - 160
EPA 8321B	Ibuprofen-d3	64.3	P	30 - 160
EPA 8321B	Primidone-d5	83.8	P	30 - 160
EPA 8321B	Sucralose-d6	58.4	P	30 - 160

Lab Sample ID: 2464114

Field Sample ID: G2SE0002

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	94.3	P	37 - 129
EPA 8270E	Decachlorobiphenyl	97.7	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	40.0	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	59.3	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	100	P	23 - 110
EPA 8276	PCNB	117	P	51 - 130

Lab Sample ID: 2464115

Field Sample ID: G2SE0002

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	86.1	P	20 - 200
EPA 8270E	Simazine-d10	104	P	58 - 137
EPA 8270E	Terbufos-d10	74.5	P	50 - 134
EPA 8270E	Terphenyl-d14	85.1	P	44 - 134

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: 124038

Included Lab Sample IDs: 2464094

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.2	101	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A123898

Included Lab Sample IDs: 2464089, 2464091, 2464095

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.5	101	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A123900

Included Lab Sample IDs: 2464093

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A123901

Included Lab Sample IDs: 2464089, 2464091, 2464093, 2464095

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	100	P/P	95 - 105
Turbidity	99.0	100	P/P	95 - 105

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A123920

Included Lab Sample IDs: 2464090, 2464092, 2464094, 2464096

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

Reference Method: EPA 8321B

Run ID: A123935

Included Lab Sample IDs: 2464110, 2464111, 2464112, 2464113

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	120	141	P/P	60 - 160
Acesulfame K	141	133	P/P	60 - 160
Sucralose	86.5	87.0	P/P	60 - 160
Sucralose	87.0	86.7	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A123947

Included Lab Sample IDs: 2464109

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	105	108	P/P	60 - 150
Aldicarb	113	102	P/P	60 - 150
Aldicarb Sulfone	108	109	P/P	50 - 150
Aldicarb Sulfoxide	106	111	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A123947
Included Lab Sample IDs: 2464109

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carbaryl	108	105	P/P	60 - 150
Carbofuran	114	116	P/P	50 - 150
Methiocarb	103	105	P/P	50 - 150
Methomyl	110	107	P/P	50 - 150
Oxamyl	106	114	P/P	50 - 150
Propoxur	116	111	P/P	50 - 150

Reference Method: EPA 8321B
Run ID: A123959
Included Lab Sample IDs: 2464110, 2464111, 2464112, 2464113

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	80.8	81.4	P/P	60 - 160
AMPA	82.3	80.8	P/P	60 - 160
Endothall	68.8	69.9	P/P	60 - 160
Endothall	74.3	68.8	P/P	60 - 160
Glufosinate	64.9	66.7	P/P	60 - 160
Glufosinate	66.7	61.5	P/P	60 - 160
Glyphosate	78.6	76.0	P/P	60 - 160
Glyphosate	80.7	78.6	P/P	60 - 160

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A123963
Included Lab Sample IDs: 2464090, 2464092, 2464094, 2464096

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	105	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A123970
Included Lab Sample IDs: 2464110, 2464111, 2464112, 2464113

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	114	99.0	P/P	50 - 150
2,4-D	99.0	101	P/P	50 - 150
2,4,5-T	101	106	P/P	50 - 150
2,4,5-T	106	87.0	P/P	50 - 150
Acetaminophen	111	111	P/P	60 - 160
Acetaminophen	111	111	P/P	60 - 160
Acetamiprid	111	111	P/P	50 - 150
Acetamiprid	111	111	P/P	50 - 150
Afidopyropen	102	98.5	P/P	50 - 150
Afidopyropen	95.4	102	P/P	50 - 150
Bentazon	109	95.7	P/P	50 - 160
Bentazon	95.7	95.3	P/P	50 - 160
Benzovindiflupyr	111	106	P/P	50 - 150
Benzovindiflupyr	99.2	111	P/P	50 - 150
Carbamazepine	115	111	P/P	60 - 150
Carbamazepine	120	115	P/P	60 - 150
Clothianidin	105	109	P/P	60 - 150
Clothianidin	106	105	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A123970

Included Lab Sample IDs: 2464110, 2464111, 2464112, 2464113

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dinotefuran	111	116	P/P	50 - 150
Dinotefuran	116	112	P/P	50 - 150
Diuron	103	104	P/P	60 - 160
Diuron	115	103	P/P	60 - 160
Fenuron	108	113	P/P	60 - 150
Fenuron	113	112	P/P	60 - 150
Fluridone	111	116	P/P	60 - 160
Fluridone	116	108	P/P	60 - 160
Hydrocodone	116	120	P/P	60 - 150
Hydrocodone	120	116	P/P	60 - 150
Ibuprofen	79.5	91.9	P/P	50 - 160
Ibuprofen	86.3	79.5	P/P	50 - 160
Imazapyr	95.2	96.2	P/P	50 - 150
Imazapyr	95.2	95.2	P/P	50 - 150
Imidacloprid	102	104	P/P	60 - 150
Imidacloprid	104	103	P/P	60 - 150
Linuron	101	104	P/P	60 - 150
Linuron	107	101	P/P	60 - 150
Mandestrobin	109	110	P/P	50 - 150
Mandestrobin	110	108	P/P	50 - 150
MCPP	90.9	93.7	P/P	50 - 150
MCPP	93.7	89.7	P/P	50 - 150
Naproxen	112	112	P/P	50 - 160
Naproxen	91.7	112	P/P	50 - 160
Primidone	101	102	P/P	60 - 150
Primidone	102	102	P/P	60 - 150
Pyraclostrobin	111	113	P/P	60 - 150
Pyraclostrobin	113	115	P/P	60 - 150
Silvex	93.6	96.9	P/P	50 - 150
Silvex	96.1	93.6	P/P	50 - 150
Thiamethoxam	116	120	P/P	50 - 150
Thiamethoxam	120	119	P/P	50 - 150
Tolfenpyrad	103	98.6	P/P	60 - 150
Tolfenpyrad	98.6	101	P/P	60 - 150
Triclopyr	106	109	P/P	50 - 150
Triclopyr	109	109	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A123974

Included Lab Sample IDs: 2464090, 2464092, 2464096

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A123976

Included Lab Sample IDs: 2464094

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

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2014

Run ID: A123982

Included Lab Sample IDs: 2464090, 2464092, 2464094, 2464096

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.1	98.3	P/P	85 - 115
Organic Carbon	98.3	127	P/P	85 - 115

Reference Method: SM 2320 B-2011

Run ID: A123986

Included Lab Sample IDs: 2464093, 2464095

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.7	97.4	P/P	90 - 110
Total Alkalinity	96.2	95.7	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A123986

Included Lab Sample IDs: 2464093, 2464095

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	100	P/P	90 - 110
Fluoride	102	101	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A123988

Included Lab Sample IDs: 2464089, 2464091

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.7	95.4	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A123988

Included Lab Sample IDs: 2464089, 2464091

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A124027

Included Lab Sample IDs: 2464089, 2464091, 2464093, 2464095

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	99.5	P/P	90 - 110
Chloride	99.5	99.9	P/P	90 - 110
Sulfate	98.7	99.3	P/P	90 - 110
Sulfate	99.6	98.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A124046

Included Lab Sample IDs: 2464090

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

Quality Assurance Report

Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A124049

Included Lab Sample IDs: 2464092, 2464096

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.6	93.5	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A124057

Included Lab Sample IDs: 2464115

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	99.3		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	93.8		P	80 - 120
Avobenzone	95.3		P	80 - 120
Dechlorane 602	95.9		P	80 - 120
Dechlorane 603	93.8		P	80 - 120
Dechlorane Plus	90.0		P	80 - 120
Hexabromobenzene	91.8		P	80 - 120
Octinoxate	97.5		P	80 - 120
Oxybenzone	96.0		P	80 - 120
PBB-153	92.3		P	80 - 120
PBDE-47	90.6		P	80 - 120
PBDE-99	94.8		P	80 - 120
Pentabromotoluene	96.2		P	80 - 120
Tetradecachloro-m-terphenyl	114		P	80 - 120
Tri-o-cresyl Phosphate	97.2		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	98.4		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	94.7		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	101		P	80 - 120

Reference Method: EPA 8276

Run ID: A124108

Included Lab Sample IDs: 2464114

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	98.7		P	80 - 120
Toxaphene	105		P	80 - 120

Reference Method: EPA 8270E

Run ID: A124109

Included Lab Sample IDs: 2464115

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	87.6		P	80 - 120
Alachlor	87.6		P	80 - 120
Ametryn	108		P	80 - 120
Atrazine	87.1		P	80 - 120
Atrazine Desethyl	101		P	80 - 120
Azinphos Methyl	102		P	80 - 120
Azoxystrobin	97.2		P	80 - 120
Bromacil	102		P	80 - 120
Butylate	96.4		P	80 - 120
Caffeine	104		P	80 - 120
Carbophenothion	106		P	80 - 120
Carfentrazone Ethyl	115		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A124109
Included Lab Sample IDs: 2464115

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlorfenapyr	87.1		P	80 - 120
Chlorpyrifos Ethyl	88.1		P	80 - 120
Chlorpyrifos Methyl	94.3		P	80 - 120
Coumaphos	93.8		P	80 - 120
Cyanazine	97.7		P	80 - 120
Cyprodinil	104		P	80 - 120
Demeton	96.8		P	80 - 120
Diazinon	96.0		P	80 - 120
Difenoconazole	99.3		P	80 - 120
Dimethenamid	94.2		P	80 - 120
Dimethomorph	106		P	80 - 120
Disulfoton	98.0		P	80 - 120
Dithiopyr	106		P	80 - 120
EPTC	99.9		P	80 - 120
Ethion	80.0		P	80 - 120
Ethoprop	98.1		P	80 - 120
Etridiazole	108		P	80 - 120
Fenamiphos	89.5		P	80 - 120
Fenbuconazole	98.2		P	80 - 120
Fipronil	99.4		P	80 - 120
Fipronil Desulfinyl	108		P	80 - 120
Fipronil Sulfide	108		P	80 - 120
Fipronil Sulfone	116		P	80 - 120
Fluazifop-P-butyl	112		P	80 - 120
Fludioxonil	99.4		P	80 - 120
Flumioxazin	100		P	80 - 120
Flutolanil	99.9		P	80 - 120
Fluxapyroxad	104		P	80 - 120
Fonofos	90.8		P	80 - 120
Hexazinone	97.5		P	80 - 120
Imazalil	99.0		P	80 - 120
Iprodione	107		P	80 - 120
Loratadine	94.5		P	80 - 120
Malathion	81.3		P	80 - 120
Metalaxyl	93.3		P	80 - 120
Metolachlor	95.9		P	80 - 120
Metribuzin	93.4		P	80 - 120
Mevinphos	97.7		P	80 - 120
Molinate	92.4		P	80 - 120
Myclobutanil	94.9		P	80 - 120
Naled	103		P	80 - 120
Napropamide	105		P	80 - 120
Norflurazon	101		P	80 - 120
Oxadiazon	99.1		P	80 - 120
Oxyfluorfen	95.2		P	80 - 120
Parathion Ethyl	95.9		P	80 - 120
Parathion Methyl	83.7		P	80 - 120
Pendimethalin	93.6		P	80 - 120
Phenytoin	100		P	80 - 120
Phorate	97.9		P	80 - 120
Prodiamine	87.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A124109
Included Lab Sample IDs: 2464115

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Prometon	97.8		P	80 - 120
Prometryn	87.5		P	80 - 120
Pronamide	95.1		P	80 - 120
Propanil	109		P	80 - 120
Propargite	93.9		P	80 - 120
Propiconazole	86.2		P	80 - 120
Pyraflufen Ethyl	101		P	80 - 120
Pyridaben	104		P	80 - 120
Pyriproxyfen	104		P	80 - 120
Simazine	91.3		P	80 - 120
Stirophos	82.8		P	80 - 120
Sulfentrazone	103		P	80 - 120
Tebuconazole	98.6		P	80 - 120
Terbufos	91.8		P	80 - 120
Terbuthylazine	92.8		P	80 - 120
Thiobencarb	106		P	80 - 120
Triadimefon	107		P	80 - 120

Reference Method: EPA 8270E
Run ID: A124125
Included Lab Sample IDs: 2464114

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	90.0		P	80 - 120
PCB-1260	99.5		P	80 - 120

Reference Method: EPA 8270E
Run ID: A124187
Included Lab Sample IDs: 2464114

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	105		P	80 - 120
Alpha-BHC	102		P	80 - 120
Alpha-Chlordane	94.8		P	80 - 120
Beta-BHC	92.5		P	80 - 120
Beta-Cyfluthrin	108		P	80 - 120
Bifenthrin	93.6		P	80 - 120
Chlorothalonil	108		P	80 - 120
Cis-Nonachlor	131*		F	80 - 120
Cypermethrin	91.8		P	80 - 120
Dacthal	89.5		P	80 - 120
DDD-p,p'	98.6		P	80 - 120
DDE-p,p'	94.2		P	80 - 120
Delta-BHC	98.4		P	80 - 120
Deltamethrin	97.6		P	80 - 120
Dichlobenil	101		P	80 - 120
Dicofol	94.1		P	80 - 120
Dieldrin	92.1		P	80 - 120
Endosulfan I	95.4		P	80 - 120
Endosulfan II	109		P	80 - 120
Endosulfan Sulfate	92.7		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A124187
Included Lab Sample IDs: 2464114

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endrin	108		P	80 - 120
Endrin Aldehyde	129*		F	80 - 120
Endrin Ketone	131*		F	80 - 120
Esfenvalerate	95.7		P	80 - 120
Ethalfuralin	97.3		P	80 - 120
Fenpropathrin	87.4		P	80 - 120
Gamma-BHC	110		P	80 - 120
Gamma-Chlordane	94.4		P	80 - 120
Heptachlor	108		P	80 - 120
Heptachlor Epoxide	118		P	80 - 120
Hexachlorobenzene	92.8		P	80 - 120
Kepone	90.2		P	80 - 120
Lambda-Cyhalothrin	93.8		P	80 - 120
Methoprene	109		P	80 - 120
Methoxychlor	100		P	80 - 120
MGK-264	96.7		P	80 - 120
Mirex	87.0		P	80 - 120
Oxychlordane	99.2		P	80 - 120
Permethrin	89.9		P	80 - 120
Phenothrin	92.9		P	80 - 120
Piperonyl Butoxide	101		P	80 - 120
Prallethrin	92.8		P	80 - 120
Tau-Fluvalinate	89.1		P	80 - 120
Tetramethrin	93.9		P	80 - 120
Trans-Nonachlor	112		P	80 - 120
Triclosan Methyl	108		P	80 - 120
Trifluralin	103		P	80 - 120

Reference Method: EPA 8270E
Run ID: A124194
Included Lab Sample IDs: 2464114

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
DDT-p,p'	105		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
DEP SOP: NU-094-1	Color (true)	102				0.666	
EPA 180.1 Rev. 2.0	Turbidity	104				3.28	
EPA 300.0 Rev. 2.1	Chloride	102	101	95.3		2.58	
	Sulfate	101	98.7	96.9		2.96	
EPA 350.1 Rev. 2.0	Ammonia-N	97.6	97.8	98.2			0.355
	Ammonia-N	97.2	102	101			0.541
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101	110	104			2.89
	Kjeldahl Nitrogen	107	96.6	99.8			2.40
EPA 353.2 Rev. 2.0	NO2NO3-N	102	106	106			0.471
EPA 365.1 Rev. 2.0	Total-P	105	102	106			2.99
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntylphenol (UV-328)	68.8	79.2	86.8			9.13
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	61.1	82.5	78.7			4.61
	Acetochlor	69.2	75.3	99.6			27.8
	Alachlor	62.6	76.8	83.9			8.85
	Aldrin	73.2	61.8	79.5			25.0
	Alpha-BHC	87.9	81.0	96.0			17.0
	Alpha-Chlordane	71.7	57.4	76.4			15.8
	Ametryn	91.2	88.6	107			18.9
	Atrazine	62.6	72.5	73.1			0.783
	Atrazine Desethyl	70.9	87.5	104			16.8
	Avobenzone	84.2	105	106			1.40
	Azinphos Methyl	130	167	169			1.07
	Azoxystrobin	74.4	107	113			5.52
	Beta-BHC	90.1	75.9	84.9			11.3
	Beta-Cyfluthrin	129	103	114			10.2
	Bifenthrin	70.9	63.7	76.8			18.6
	Bromacil	74.5	82.5	95.7			14.8
	Butylate	41.8	32.7	61.3			60.7
	Caffeine	91.8	150	201			28.9
	Carbophenothion	88.6	102	104			1.64
	Carfentrazone Ethyl	94.0	108	111			2.61
	Chlorfenapyr	63.5	86.1	88.0			2.21
	Chlorothalonil	80.8	69.2	94.0			30.4
	Chlorpyrifos Ethyl	75.1	80.7	97.8			19.1
	Chlorpyrifos Methyl	92.3	95.4	107			11.9
	Cis-Nonachlor	74.0	47.5	73.4			42.8
	Coumaphos	102	117	98.6			17.0
	Cyanazine	90.6	107	112			4.77
	Cypermethrin	92.1	79.5	88.6			10.9
	Cyprodinil	75.4	89.9	93.1			3.48
	Dacthal	80.7	76.7	83.9			8.99
	DDD-p,p'	71.0	67.7	77.0			12.8
	DDE-p,p'	80.0	70.5	84.0			17.6
	DDT-p,p'	89.2	67.7	81.9			15.2
	Dechlorane 602	63.8	71.2	77.8			8.82
	Dechlorane 603	62.4	77.4	72.6			6.38
	Dechlorane Plus	58.2	68.7	69.9			1.66
	Delta-BHC	95.8	83.7	101			19.0
	Deltamethrin	116	93.6	116			21.3
	Demeton	53.9	61.7	73.0			16.8
	Diazinon	83.2	82.7	102			21.0

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Dichlobenil	69.1	65.2	68.3			4.67
	Dicofol	65.0	56.7	65.8			14.8
	Dieldrin	80.6	59.2	72.7			15.3
	Difenoconazole	119	105	121			14.0
	Dimethenamid	78.1	93.1	84.3			9.94
	Dimethomorph	117	164	135			19.5
	Disulfoton	76.1	114	90.6			22.8
	Dithiopyr	73.1	92.8	88.4			4.84
	Endosulfan I	79.4	71.1	80.5			12.5
	Endosulfan II	97.9	101	105			4.33
	Endosulfan Sulfate	71.2	62.3	70.7			12.6
	Endrin	79.1	62.2	61.6			0.856
	Endrin Aldehyde	86.8	42.1	40.2			4.65
	Endrin Ketone	101	131	114			13.5
	EPTC	33.5	61.7	30.2			68.5
	Esfenvalerate	99.2	77.0	102			27.6
	Ethalfuralin	73.2	71.0	78.7			10.4
	Ethion	60.5	75.5	53.5			34.1
	Ethoprop	64.2	87.4	74.6			15.8
	Etridiazole	44.7	69.5	45.8			41.1
	Fenamiphos	68.9	108	102			5.37
	Fenbuconazole	63.4	84.0	88.5			5.27
	Fenpropathrin	77.7	64.6	78.1			19.0
	Fipronil	55.4	88.1	81.5			7.71
	Fipronil Desulfinyl	86.5	101	94.2			7.15
	Fipronil Sulfide	74.3	84.5	74.8			12.2
	Fipronil Sulfone	86.4	94.5	95.1			0.661
	Fluazifop-P-butyl	80.4	99.5	97.5			2.06
	Fludioxonil	76.3	98.3	92.4			6.13
	Flumioxazin	154	140	146			4.21
	Flutolanil	79.3	84.5	74.9			12.0
	Fluxapyroxad	79.3	79.8	79.7			0.120
	Fonofos	75.7	98.6	80.7			19.9
	Gamma-BHC	111	112	126			12.0
	Gamma-Chlordane	92.2	68.8	81.6			11.5
	Heptachlor	88.9	63.5	88.0			32.4
	Heptachlor Epoxide	112	94.4	105			8.38
	Hexabromobenzene	59.9	79.3	76.2			3.98
	Hexachlorobenzene	48.7	40.5	54.1			28.8
	Hexazinone	69.8	83.0	72.2			14.0
	Imazalil	65.2	95.0	82.8			13.8
	Iprodione	74.0	94.5	90.9			3.87
	Kepone	76.1	76.9	96.8			22.9
	Lambda-Cyhalothrin	85.1	64.0	69.9			8.80
	Loratadine	100	138	133			3.44
	Malathion	90.3	107	88.1			19.1
	Metalaxyl	64.4	73.8	65.3			12.2
	Methoprene	104	87.9	99.2			12.0
	Methoxychlor	88.7	75.9	91.3			18.5
	Metolachlor	78.8	93.6	83.1			11.9
	Metribuzin	67.0	78.2	81.7			4.33
	Mevinphos	79.4	119	92.4			25.2
	MGK-264	81.7	80.2	94.5			16.3
	Mirex	66.8	50.1	36.1			32.6

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Molinate	44.0	60.6	43.0			34.1
	Myclobutanil	64.5	91.5	80.0			13.4
	Naled	40.4	64.3	45.3			34.7
	Napropamide	60.9	85.9	70.1			20.3
	Norflurazon	82.4	93.1	87.4			6.35
	Octinoxate	63.9	75.0	80.9			7.61
	Oxadiazon	61.8	74.5	69.6			6.82
	Oxybenzone	65.9	80.3	86.3			7.20
	Oxychlordane	83.1	74.9	99.2			27.9
	Oxyfluorfen	97.6	110	99.2			10.3
	Parathion Ethyl	65.6	89.6	77.6			14.4
	Parathion Methyl	78.3	113	99.4			12.4
	PBB-153	60.1	79.7	76.9			3.65
	PBDE-47	60.3	58.4	66.7			13.2
	PBDE-99	64.1	76.8	76.9			0.114
	PCB-1016	72.8	74.9	64.7			14.7
	PCB-1260	90.1	93.7	84.8			9.94
	Pendimethalin	102	136	127			7.32
	Pentabromotoluene	60.2	79.7	86.6			8.30
	Permethrin	81.6	69.8	89.8			25.1
	Phenothrin	65.4	55.8	67.7			19.3
	Phenytoin	49.6	66.7	52.4			24.0
	Phorate	69.3	96.8	78.1			21.3
	Piperonyl Butoxide	90.9	94.4	81.2			13.7
	Prallethrin	69.3	68.3	72.4			5.89
	Prodiamine	49.6	57.8	60.6			4.68
	Prometon	80.0	102	87.0			16.0
	Prometryn	74.3	92.8	86.7			6.85
	Pronamide	82.5	111	89.9			20.9
	Propanil	116	132	144			8.19
	Propargite	40.3	47.0	40.7			14.4
	Propiconazole	70.3	67.6	76.2			12.0
	Pyraflufen Ethyl	83.9	78.4	92.9			16.9
	Pyridaben	81.9	111	116			4.29
	Pyriproxyfen	80.3	89.9	83.7			7.15
	Simazine	68.4	88.3	82.4			6.96
	Stirophos	69.3	83.7	72.6			14.2
	Sulfentrazone	72.6	97.6	94.3			3.44
	Tau-Fluvalinate	84.3	63.0	78.3			21.6
	Tebuconazole	60.6	56.9	52.5			8.05
	Terbufos	73.9	96.5	80.3			18.3
	Terbuthylazine	68.8	84.9	73.4			14.6
	Tetradecachloro-m-terphenyl	69.2	96.7	119			21.0
	Tetramethrin	109	97.4	114			15.7
	Thiobencarb	77.0	95.0	90.2			5.12
	Trans-Nonachlor	79.2	84.1	78.5			5.07
	Tri-o-cresyl Phosphate	69.8	84.6	88.4			4.48
	Triadimefon	62.2	90.4	71.9			22.8
	Triclosan Methyl	101	93.1	90.9			2.39
	Trifluralin	75.0	68.9	82.1			17.4
	Tris(1-chloro-2-propyl) phosphate (TCPP)	78.9	116	113			2.71
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	74.5	99.7	102			2.29

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Tris(2-chloroethyl) phosphate (TCEP)	95.1	120	127			5.92
EPA 8276	Chlordane	112	123	119			2.81
	Toxaphene	113	142	136			3.92
EPA 8321B	2,4-D	93.9	93.5	106			12.1
	2,4,5-T	103	89.0	103			14.7
	3-Hydroxycarbofuran	93.4	95.4	79.3			18.3
	Acesulfame K	121	125	127			1.20
	Acetaminophen	86.4	99.9	103			3.07
	Acetamiprid	84.1	84.9	88.7			4.38
	Afidopyropen	68.1	77.2	60.6			24.0
	Aldicarb	70.7	56.2	62.2			10.1
	Aldicarb Sulfone	107	101	103			2.14
	Aldicarb Sulfoxide	130	54.6	57.4			4.95
	AMPA	114	111	111			0.157
	Bentazon	81.9	42.0	44.8			6.35
	Benzovindiflupyr	81.9	93.9	95.3			1.52
	Carbamazepine	84.7	91.1	91.6			0.521
	Carbaryl	99.3	92.8	88.6			4.68
	Carbofuran	92.4	86.3	84.1			2.62
	Clothianidin	91.9	109	110			1.23
	Dinotefuran	100	116	118			1.37
	Diuron	77.7	84.3	78.9			6.65
	Endothall	92.1	98.5	98.0			0.529
	Fenuron	93.3	88.8	90.6			1.96
	Fluridone	90.3	90.7	92.8			2.28
	Glufosinate	95.9	91.3	93.4			2.34
	Glyphosate	101	100	102			1.63
	Hydrocodone	101	103	107			4.39
	Ibuprofen	70.8	85.9	82.4			4.14
	Imazapyr	86.6	107	110			2.06
	Imidacloprid	89.6	126	128			2.00
	Linuron	77.8	89.6	83.5			7.11
	Mandestrobin	88.7	101	104			2.81
	MCPPP	83.4	90.1	91.6			1.61
	Methiocarb	78.8	83.9	74.5			11.9
	Methomyl	102	92.6	92.3			0.350
	Naproxen	70.5	78.2	67.1			15.3
	Oxamyl	101	96.3	97.1			0.828
	Primidone	88.0	100	105			5.09
	Propoxur	91.5	87.3	80.8			7.79
	Pyraclostrobin	87.5	96.0	95.9			0.0905
	Silvex	82.1	85.3	92.8			8.48
	Sucralose	82.5	86.4	85.1			1.60
	Thiamethoxam	97.9	116	120			2.78
	Tolfenpyrad	56.4	58.9	65.7			10.9
	Triclopyr	112	95.7	103			6.91
SM 2320 B-2011	Total Alkalinity	97.8				0.699	
	Total Alkalinity	94.3				1.73	
SM 2540 C-2015	TDS	95.6				3.25	
SM 2540 D-2015	TSS	96.0					
SM 4500-F- C-2011	Fluoride	101	99.8	98.4			0.927
	Fluoride	98.9	99.7	99.7			0.0
SM 5310 B-2014	Organic Carbon	100	99.2	100			0.679

Quality Assurance Report

Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
SM 5310 B-2014	Organic Carbon	101	99.9	102	SMP	1.70

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2464089, 2464091, 2464093, 2464095
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2464089, 2464091, 2464093, 2464095
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2464089, 2464091, 2464093, 2464095
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2464089, 2464091, 2464093, 2464095
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2464090, 2464092, 2464094, 2464096
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2464090, 2464092, 2464094, 2464096
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2464090, 2464092, 2464094, 2464096
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2464090, 2464092, 2464094, 2464096
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2464115
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2464114
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2464115
EPA 8270E	PCBs in water matrices by GC/MS/MS	2464114
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2464114
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2464109
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2464110, 2464111, 2464112, 2464113
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2464089, 2464091, 2464093, 2464095
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2464089, 2464091, 2464093, 2464095
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2464089, 2464091, 2464093, 2464095
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2464089, 2464091, 2464093, 2464095
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2464090, 2464092, 2464094, 2464096

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	01/30/2024			01/30/2024 14:44	Samantha L Bates	2464089, 2464091
	01/30/2024			01/30/2024 14:46	Samantha L Bates	2464095
	01/30/2024			01/30/2024 15:37	Samantha L Bates	2464093
EPA 180.1 Rev. 2.0	01/30/2024			01/30/2024 13:34	Dipa Joshi	2464089
	01/30/2024			01/30/2024 13:35	Dipa Joshi	2464091
	01/30/2024			01/30/2024 13:40	Dipa Joshi	2464093
EPA 300.0 Rev. 2.1	01/30/2024			01/30/2024 13:42	Dipa Joshi	2464095
	01/30/2024			02/05/2024 22:00	James L Waggeberby	2464089
	01/30/2024			02/05/2024 22:15	James L Waggeberby	2464091
EPA 350.1 Rev. 2.0	01/30/2024			02/05/2024 23:00	James L Waggeberby	2464093
	01/30/2024			02/05/2024 23:15	James L Waggeberby	2464095
	01/30/2024			01/31/2024 12:09	Ping Hua	2464090
EPA 351.2 Rev. 2.0	01/30/2024			01/31/2024 12:10	Ping Hua	2464092
	01/30/2024			01/31/2024 12:12	Ping Hua	2464094
	01/30/2024			01/31/2024 12:26	Ping Hua	2464096
EPA 353.2 Rev. 2.0	01/30/2024	02/06/2024 11:55	Samantha L Bates	02/07/2024 10:28	Samantha L Bates	2464094
	01/30/2024	02/06/2024 11:55	Samantha L Bates	02/07/2024 13:57	Samantha L Bates	2464090
	01/30/2024	02/06/2024 11:55	Samantha L Bates	02/07/2024 16:52	Samantha L Bates	2464092
EPA 365.1 Rev. 2.0	01/30/2024	02/06/2024 11:55	Samantha L Bates	02/07/2024 16:53	Samantha L Bates	2464096
	01/30/2024			02/01/2024 13:20	Fadila Guebre	2464090
	01/30/2024			02/01/2024 13:21	Fadila Guebre	2464092
EPA 8270E	01/30/2024			02/01/2024 13:22	Fadila Guebre	2464094
	01/30/2024			02/01/2024 13:23	Fadila Guebre	2464096
	01/30/2024	02/01/2024 15:22	Adam P Silver	02/02/2024 11:53	Simonne.V. Calhoun	2464090
EPA 8276	01/30/2024	02/01/2024 15:22	Adam P Silver	02/02/2024 11:54	Simonne.V. Calhoun	2464092
	01/30/2024	02/01/2024 15:22	Adam P Silver	02/02/2024 11:56	Simonne.V. Calhoun	2464096
	01/30/2024	02/01/2024 15:22	Adam P Silver	02/02/2024 12:30	Simonne.V. Calhoun	2464094
EPA 8321B	01/30/2024	02/02/2024 08:00	Fe-Val Siddell	02/09/2024 21:37	Lipi Saha	2464114
	01/30/2024	02/02/2024 08:00	Fe-Val Siddell	02/09/2024 23:48	Lipi Saha	2464114
	01/30/2024	02/02/2024 08:00	Fe-Val Siddell	02/13/2024 21:48	Lipi Saha	2464114
EPA 8321B	01/30/2024	02/05/2024 08:00	Rasheda Ghaffari	02/07/2024 20:07	Arthur Maknenko	2464115
	01/30/2024	02/05/2024 08:00	Rasheda Ghaffari	02/08/2024 19:21	Julie Wi	2464115
	01/30/2024	02/02/2024 08:00	Fe-Val Siddell	02/06/2024 13:14	Kenedi Mills	2464114
EPA 8321B	01/30/2024	01/30/2024 12:00	Hoor Shaik	01/31/2024 21:45	Juyoung Kim	2464109
	01/30/2024	01/31/2024 10:45	Hana Lee	01/31/2024 12:35	Hana Lee	2464110
	01/30/2024	01/31/2024 10:45	Hana Lee	01/31/2024 12:49	Hana Lee	2464111
EPA 8321B	01/30/2024	01/31/2024 10:45	Hana Lee	01/31/2024 13:03	Hana Lee	2464112
	01/30/2024	01/31/2024 10:45	Hana Lee	01/31/2024 13:31	Hana Lee	2464113
	01/30/2024	01/31/2024 10:45	Hana Lee	01/31/2024 15:42	Hana Lee	2464110
EPA 8321B	01/30/2024	01/31/2024 10:45	Hana Lee	01/31/2024 15:56	Hana Lee	2464111

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	01/30/2024	01/31/2024 10:45	Hana Lee	01/31/2024 16:10	Hana Lee	2464112
	01/30/2024	01/31/2024 10:45	Hana Lee	01/31/2024 16:37	Hana Lee	2464113
	01/30/2024	02/01/2024 09:00	Hoor Shaik	02/02/2024 03:04	Juyoung Kim	2464110
	01/30/2024	02/01/2024 09:00	Hoor Shaik	02/02/2024 03:40	Juyoung Kim	2464111
	01/30/2024	02/01/2024 09:00	Hoor Shaik	02/02/2024 03:57	Juyoung Kim	2464112
	01/30/2024	02/01/2024 09:00	Hoor Shaik	02/02/2024 04:15	Juyoung Kim	2464113
SM 2320 B-2011	01/30/2024			02/02/2024 03:40	Dale L. Simmons	2464091
	01/30/2024			02/02/2024 03:54	Dale L. Simmons	2464089
	01/30/2024			02/02/2024 21:53	Dale L. Simmons	2464093
	01/30/2024			02/02/2024 22:43	Dale L. Simmons	2464095
SM 2540 C-2015	01/30/2024			02/02/2024 15:41	Yijie Li	2464089, 2464091, 2464093, 2464095
SM 2540 D-2015	01/30/2024			02/02/2024 15:41	Yijie Li	2464089, 2464091, 2464093, 2464095
SM 4500-F- C-2011	01/30/2024			02/02/2024 03:40	Dale L. Simmons	2464091
	01/30/2024			02/02/2024 03:54	Dale L. Simmons	2464089
	01/30/2024			02/02/2024 21:53	Dale L. Simmons	2464093
	01/30/2024			02/02/2024 22:43	Dale L. Simmons	2464095
SM 5310 B-2014	01/30/2024			02/03/2024 01:19	Khloe J Berg	2464090
	01/30/2024			02/03/2024 01:35	Khloe J Berg	2464092
	01/30/2024			02/03/2024 02:55	Khloe J Berg	2464094
	01/30/2024			02/03/2024 03:40	Khloe J Berg	2464096