Chemical Analysis Report

SW-DIST-2023-05-31-01

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

Event Description: **Run 3**
Request ID: **RQ-2023-05-29-36**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
Attn: Ben Paswater

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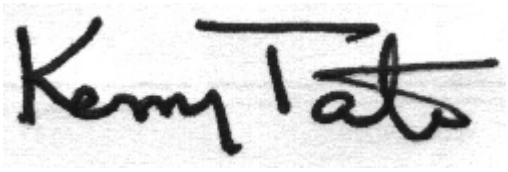
Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 20-JUN-2023 10:11



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: IRVIN LAKE **Collection Date/Time: 05/30/2023 13:15**

Field ID: G4SW0025 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2413405	DEP SOP: NU-094-1	Color (true)	53	A	PCU	P430603	
	EPA 180.1 Rev. 2.0	Turbidity	36		NTU	P430604	
	EPA 300.0 Rev. 2.1	Chloride	19		mg Cl/L	P430960	
		Sulfate	4.6		mg SO4/L	P430964	
	SM 2320 B-2011	Total Alkalinity	31		mg CaCO3/L	P430787	
	SM 2540 C-2015	TDS	114		mg/L	P431042	
	SM 2540 D-2015	TSS	56		mg/L	P431015	
	SM 4500-F- C-2011	Fluoride	0.18		mg F/L	P431429	
2413407	EPA 350.1 Rev. 2.0	Ammonia-N	0.020		mg N/L	P430812	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.5		mg N/L	P430754	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.35		mg N/L	P430906	
	EPA 365.1 Rev. 2.0	Total-P	0.42		mg P/L	P430674	
	SM 5310 B-2011	Organic Carbon	16		mg C/L	P430799	
2413419	EPA 8321B	Aldicarb	0.020	U	ug/L	P430798	
		Aldicarb Sulfone	0.0020	U	ug/L	P430798	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P430798	MS
		Carbaryl	0.0020	U	ug/L	P430798	
		Carbofuran	0.0020	U	ug/L	P430798	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P430798	
		Methiocarb	0.0020	U	ug/L	P430798	
		Methomyl	0.0020	U	ug/L	P430798	
		Oxamyl	0.0020	U	ug/L	P430798	
		Propoxur	0.0020	U	ug/L	P430798	
2413421		2,4-D	0.0078	I	ug/L	P430549	
		Acesulfame K	0.10	U	ug/L	P430640	
		2,4,5-T	0.0040	U	ug/L	P430549	
		AMPA	0.26	I	ug/L	P430640	
		Acetaminophen	0.0080	U	ug/L	P430549	
		Acetamiprid	0.0020	U	ug/L	P430549	
		Endothall	0.25	U	ug/L	P430640	
		Glufosinate	0.10	U	ug/L	P430640	
		Glyphosate	0.10	U	ug/L	P430640	
		Afidopyropen	0.0020	U	ug/L	P430549	
		Bentazon	8.0E-04	U	ug/L	P430549	
		Sucralose	0.090		ug/L	P430640	
		Benzovindiflupyr	0.0020	U	ug/L	P430549	
		Carbamazepine	8.0E-04	U	ug/L	P430549	
		Clothianidin	0.0020	U	ug/L	P430549	
		Dinotefuran	0.0020	U	ug/L	P430549	
		Diuron	0.0020	U	ug/L	P430549	
		Fenuron	0.032	U	ug/L	P430549	
		Fluridone	8.0E-04	U	ug/L	P430549	
		Imazapyr	0.0099	I	ug/L	P430549	
		Hydrocodone	0.0020	U	ug/L	P430549	

Field ID: G4SW0025 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2413421	EPA 8321B	Ibuprofen	0.080	U	ug/L	P430549	
		Imidacloprid	0.0020	U	ug/L	P430549	
		Linuron	0.0040	U	ug/L	P430549	
		Mandestrobin	0.0020	U	ug/L	P430549	
		MCPP	0.0029	I	ug/L	P430549	
		Naproxen	0.0080	U	ug/L	P430549	
		Primidone	0.0040	U	ug/L	P430549	
		Pyraclostrobin	0.0020	U	ug/L	P430549	
		Silvex	0.0040	U	ug/L	P430549	
		Thiamethoxam	0.0020	U	ug/L	P430549	
		Tolfenpyrad	0.0020	U	ug/L	P430549	
		Triclopyr	0.0040	U	ug/L	P430549	
2413423	EPA 8270E	Aldrin	0.70	U	ng/L	P430630	
		Alpha-BHC	0.11	U	ng/L	P430630	
		Alpha-Chlordane	0.22	U	ng/L	P430630	
		PCB-1016	2.2	U	ng/L	P430630	
		Beta-BHC	0.11	U	ng/L	P430630	
		PCB-1221	2.2	U	ng/L	P430630	
		Beta-Cyfluthrin	1.3	U	ng/L	P430630	
		PCB-1232	2.2	U	ng/L	P430630	
		Bifenthrin	0.54	U	ng/L	P430630	
		PCB-1242	2.2	U	ng/L	P430630	
		PCB-1248	2.2	U	ng/L	P430630	
		Chlorothalonil	3.9	U	ng/L	P430630	
		PCB-1254	2.2	U	ng/L	P430630	
		Cis-Nonachlor	0.22	U	ng/L	P430630	
		PCB-1260	2.2	U	ng/L	P430630	
		Cypermethrin	1.6	U	ng/L	P430630	
		Dacthal	0.16	U	ng/L	P430630	
		DDD-p,p'	0.27	U	ng/L	P430630	
		DDE-p,p'	0.22	U	ng/L	P430630	
		DDT-p,p'	0.27	UJ	ng/L	P430630	CCV
		Delta-BHC	0.43	U	ng/L	P430630	
		Deltamethrin	1.3	U	ng/L	P430630	
		Dichlobenil	0.27	U	ng/L	P430630	
		Dicofol	1.3	U	ng/L	P430630	
		Dieldrin	0.43	U	ng/L	P430630	
		Endosulfan I	0.43	U	ng/L	P430630	
		Endosulfan II	0.43	U	ng/L	P430630	
		Endosulfan Sulfate	0.32	U	ng/L	P430630	
		Endrin	0.43	U	ng/L	P430630	
		Endrin Aldehyde	0.81	U	ng/L	P430630	
		Endrin Ketone	0.43	U	ng/L	P430630	
		Esfenvalerate	0.81	U	ng/L	P430630	
		Ethalfluralin	0.16	U	ng/L	P430630	

Field ID: G4SW0025 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2413423	EPA 8270E	Fenpropathrin	0.27	U	ng/L	P430630	
		Gamma-BHC	0.13	U	ng/L	P430630	
		Gamma-Chlordane	0.22	U	ng/L	P430630	
		Heptachlor	0.22	U	ng/L	P430630	
		Heptachlor Epoxide	0.27	U	ng/L	P430630	RPD
		Hexachlorobenzene**	1.1	U	ng/L	P430630	
		Kepone	5.4	U	ng/L	P430630	
		Lambda-Cyhalothrin	0.81	U	ng/L	P430630	
		Methoprene	0.81	U	ng/L	P430630	
		Methoxychlor	0.32	U	ng/L	P430630	
		MGK-264	0.22	U	ng/L	P430630	
		Mirex	0.38	U	ng/L	P430630	
		Oxychlordane	0.32	U	ng/L	P430630	
		Permethrin	1.7	U	ng/L	P430630	
		Phenothrin	0.97	U	ng/L	P430630	
		Piperonyl Butoxide	0.16	U	ng/L	P430630	
		Prallethrin	2.2	U	ng/L	P430630	
		Tau-Fluvalinate	0.27	U	ng/L	P430630	
		Tetramethrin	0.81	U	ng/L	P430630	
		Trans-Nonachlor	0.22	U	ng/L	P430630	RPD
		Triclosan Methyl	0.16	UJ	ng/L	P430630	LCS
		Trifluralin	0.22	U	ng/L	P430630	
	EPA 8276	Chlordane	2.2	U	ng/L	P430630	
		Toxaphene	16	U	ng/L	P430630	
2413425	EPA 8270E	Oxybenzone**	11	U	ng/L	P430467	
		Acetochlor	0.22	U	ng/L	P430467	
		Octinoxate**	22	U	ng/L	P430467	
		Alachlor	0.44	U	ng/L	P430467	
		Avobenzone**	110	U	ng/L	P430467	MS
		Ametryn	1.2	U	ng/L	P430467	
		Atrazine	14		ng/L	P430467	
		PBDE-47**	4.4	U	ng/L	P430467	
		Atrazine Desethyl	1.4	U	ng/L	P430467	
		PBDE-99**	5.5	U	ng/L	P430467	
		Azinphos Methyl	3.3	U	ng/L	P430467	
		Tri-o-cresyl Phosphate**	6.6	U	ng/L	P430467	
		Azoxystrobin	0.44	U	ng/L	P430467	
		Bromacil	0.66	U	ng/L	P430467	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	13	U	ng/L	P430467	
		Butylate	0.22	U	ng/L	P430467	
		Dechlorane Plus**	33	U	ng/L	P430467	
		Caffeine**	9.0	I	ng/L	P430467	
		Dechlorane 602**	5.5	U	ng/L	P430467	
		Carbophenothion	0.55	U	ng/L	P430467	

Field ID: G4SW0025 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2413425	EPA 8270E	Dechlorane 603**	4.4	U	ng/L	P430467	
		Carfentrazone Ethyl	0.16	U	ng/L	P430467	
		Hexabromobenzene**	6.6	U	ng/L	P430467	
		Chlorfenapyr	0.33	U	ng/L	P430467	
		PBB-153**	8.7	U	ng/L	P430467	MS
		Chlorpyrifos Ethyl	0.33	U	ng/L	P430467	
		Pentabromotoluene**	3.3	U	ng/L	P430467	
		Chlorpyrifos Methyl	0.11	U	ng/L	P430467	MS
		Tris(2-chloroethyl) phosphate (TCEP)**	76	U	ng/L	P430467	
		Coumaphos	1.1	U	ng/L	P430467	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	32	I	ng/L	P430467	
		Cyanazine	5.5	U	ng/L	P430467	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	8.4		ng/L	P430467	
		Cyprodinil	0.22	U	ng/L	P430467	
		Tetradecachloro-m-terphenyl**	8.2	U	ng/L	P430467	MS
		Demeton	3.8	U	ng/L	P430467	
		Diazinon	0.14	U	ng/L	P430467	MS
		Difenoconazole	0.66	U	ng/L	P430467	
		Dimethenamid	0.11	U	ng/L	P430467	MS
		Dimethomorph	0.33	U	ng/L	P430467	
		Disulfoton	0.66	U	ng/L	P430467	
		Dithiopyr	1.1	UJ	ng/L	P430467	LCS, MS
		EPTC	0.55	U	ng/L	P430467	
		Ethion	0.33	U	ng/L	P430467	MS
		Ethoprop	0.24	I	ng/L	P430467	
		Etridiazole	0.11	U	ng/L	P430467	
		Fenamiphos	0.49	U	ng/L	P430467	
		Fenbuconazole	0.55	U	ng/L	P430467	
		Fipronil	0.22	U	ng/L	P430467	MS
		Fipronil Desulfinyl**	0.19	I	ng/L	P430467	
		Fipronil Sulfide	0.32	I	ng/L	P430467	
		Fipronil Sulfone	0.27	I	ng/L	P430467	
		Fluazifop-P-butyl	0.11	U	ng/L	P430467	
		Fludioxonil	0.11	U	ng/L	P430467	
		Flumioxazin	3.3	U	ng/L	P430467	
		Flutolanil	0.11	U	ng/L	P430467	
		Fluxapyroxad	0.27	U	ng/L	P430467	
		Fonofos	0.16	UJ	ng/L	P430467	LCS, MS
		Hexazinone	0.55	U	ng/L	P430467	
		Imazalil	0.71	U	ng/L	P430467	
		Iprodione	0.55	U	ng/L	P430467	
		Loratadine**	0.33	U	ng/L	P430467	
		Malathion	0.38	U	ng/L	P430467	
		Metalaxyl	0.55	U	ng/L	P430467	

Field ID: G4SW0025 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2413425	EPA 8270E	Metolachlor	0.82	U	ng/L	P430467	
		Metribuzin	0.44	U	ng/L	P430467	
		Mevinphos	1.1	U	ng/L	P430467	
		Molinate	0.27	U	ng/L	P430467	
		Myclobutanil	0.38	U	ng/L	P430467	
		Naled	2.7	U	ng/L	P430467	
		Napropamide	0.76	U	ng/L	P430467	
		Norflurazon	1.1	U	ng/L	P430467	
		Oxadiazon	0.38	U	ng/L	P430467	
		Oxyfluorfen	0.22	U	ng/L	P430467	
		Parathion Ethyl	0.16	U	ng/L	P430467	
		Parathion Methyl	0.22	U	ng/L	P430467	
		Pendimethalin	0.82	U	ng/L	P430467	
		Phenytoin**	5.8	U	ng/L	P430467	
		Phorate	0.27	U	ng/L	P430467	
		Prodiamine	0.22	U	ng/L	P430467	
		Prometon	3.3	U	ng/L	P430467	
		Prometryn	0.38	U	ng/L	P430467	
		Pronamide	0.11	U	ng/L	P430467	
		Propanil	0.11	U	ng/L	P430467	
		Propargite	0.87	U	ng/L	P430467	
		Propiconazole	0.66	U	ng/L	P430467	
		Pyraflufen Ethyl	0.33	U	ng/L	P430467	
		Pyridaben	1.5	U	ng/L	P430467	
		Pyriproxyfen	0.27	U	ng/L	P430467	
		Simazine	0.27	U	ng/L	P430467	
		Stirophos	0.44	U	ng/L	P430467	
		Sulfentrazone	1.5	U	ng/L	P430467	
		Tebuconazole	1.5	U	ng/L	P430467	
		Terbufos	0.22	U	ng/L	P430467	
		Terbuthylazine	0.22	U	ng/L	P430467	
		Thiobencarb	0.55	U	ng/L	P430467	
		Triadimefon	0.16	U	ng/L	P430467	

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

Sample Location: FB **Collection Date/Time: 05/30/2023 13:30**

Field ID: FB_05302023 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2413406	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P430602	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P430604	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P430960	
		Sulfate	0.20	U	mg SO4/L	P430964	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P430787	
	SM 2540 C-2015	TDS	15	U	mg/L	P431042	
	SM 2540 D-2015	TSS	2	U	mg/L	P431015	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P431429	
2413408	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P430814	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P430754	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P430906	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P430674	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P430799	
2413420	EPA 8321B	Aldicarb	0.020	U	ug/L	P430798	
		Aldicarb Sulfone	0.0020	U	ug/L	P430798	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P430798	MS
		Carbaryl	0.0020	U	ug/L	P430798	
		Carbofuran	0.0020	U	ug/L	P430798	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P430798	
		Methiocarb	0.0020	U	ug/L	P430798	
		Methomyl	0.0020	U	ug/L	P430798	
		Oxamyl	0.0020	U	ug/L	P430798	
		Propoxur	0.0020	U	ug/L	P430798	
2413422		2,4-D	0.0020	U	ug/L	P430649	
		Acesulfame K	0.10	U	ug/L	P430640	
		2,4,5-T	0.0040	U	ug/L	P430649	
		AMPA	0.10	U	ug/L	P430640	
		Acetaminophen	0.0080	U	ug/L	P430649	
		Acetamiprid	0.0020	U	ug/L	P430649	
		Endothall	0.25	U	ug/L	P430640	
		Glufosinate	0.10	U	ug/L	P430640	
		Glyphosate	0.10	U	ug/L	P430640	
		Afidopyropen	0.0020	U	ug/L	P430649	
		Bentazon	8.0E-04	U	ug/L	P430649	
		Sucralose	0.010	U	ug/L	P430640	
		Benzovindiflupyr	0.0020	U	ug/L	P430649	
		Carbamazepine	8.0E-04	U	ug/L	P430649	
		Clothianidin	0.0020	U	ug/L	P430649	
		Dinotefuran	0.0020	U	ug/L	P430649	
		Diuron	0.0020	U	ug/L	P430649	
		Fenuron	0.032	U	ug/L	P430649	
		Fluridone	8.0E-04	U	ug/L	P430649	
		Imazapyr	0.0040	U	ug/L	P430649	
		Hydrocodone	0.0020	U	ug/L	P430649	

Field ID: FB_05302023 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2413422	EPA 8321B	Ibuprofen	0.080	UJ	ug/L	P430649	CCV
		Imidacloprid	0.0020	U	ug/L	P430649	
		Linuron	0.0040	U	ug/L	P430649	
		Mandestrobin	0.0020	U	ug/L	P430649	
		MCPP	0.0020	U	ug/L	P430649	
		Naproxen	0.0080	U	ug/L	P430649	
		Primidone	0.0040	U	ug/L	P430649	
		Pyraclostrobin	0.0020	U	ug/L	P430649	
		Silvex	0.0040	U	ug/L	P430649	
		Thiamethoxam	0.0020	U	ug/L	P430649	
		Tolfenpyrad	0.0020	U	ug/L	P430649	
		Triclopyr	0.0040	U	ug/L	P430649	
2413424	EPA 8270E	Aldrin	0.69	U	ng/L	P430630	
		Alpha-BHC	0.11	U	ng/L	P430630	
		Alpha-Chlordane	0.21	U	ng/L	P430630	
		PCB-1016	2.1	U	ng/L	P430630	
		Beta-BHC	0.11	U	ng/L	P430630	
		PCB-1221	2.1	U	ng/L	P430630	
		Beta-Cyfluthrin	1.3	U	ng/L	P430630	
		PCB-1232	2.1	U	ng/L	P430630	
		Bifenthrin	0.53	U	ng/L	P430630	
		PCB-1242	2.1	U	ng/L	P430630	
		PCB-1248	2.1	U	ng/L	P430630	
		Chlorothalonil	3.8	U	ng/L	P430630	
		PCB-1254	2.1	U	ng/L	P430630	
		Cis-Nonachlor	0.21	U	ng/L	P430630	
		PCB-1260	2.1	U	ng/L	P430630	
		Cypermethrin	1.6	U	ng/L	P430630	
		Dacthal	0.16	U	ng/L	P430630	
		DDD-p,p'	0.27	U	ng/L	P430630	
		DDE-p,p'	0.21	U	ng/L	P430630	
		DDT-p,p'	0.27	UJ	ng/L	P430630	CCV
		Delta-BHC	0.43	U	ng/L	P430630	
		Deltamethrin	1.3	U	ng/L	P430630	
		Dichlobenil	0.27	U	ng/L	P430630	
		Dicofol	1.3	U	ng/L	P430630	
		Dieldrin	0.43	U	ng/L	P430630	
		Endosulfan I	0.43	U	ng/L	P430630	
		Endosulfan II	0.43	U	ng/L	P430630	
		Endosulfan Sulfate	0.32	U	ng/L	P430630	
		Endrin	0.43	U	ng/L	P430630	
		Endrin Aldehyde	0.80	U	ng/L	P430630	
		Endrin Ketone	0.43	U	ng/L	P430630	
		Esfenvalerate	0.80	U	ng/L	P430630	
		Ethalfluralin	0.16	U	ng/L	P430630	

Field ID: FB_05302023 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2413424	EPA 8270E	Fenpropathrin	0.27	U	ng/L	P430630	
		Gamma-BHC	1.7		ng/L	P430630	
		Gamma-Chlordane	0.21	U	ng/L	P430630	
		Heptachlor	0.21	U	ng/L	P430630	
		Heptachlor Epoxide	0.27	U	ng/L	P430630	RPD
		Hexachlorobenzene**	1.1	U	ng/L	P430630	
		Kepone	5.3	U	ng/L	P430630	
		Lambda-Cyhalothrin	0.80	U	ng/L	P430630	
		Methoprene	0.80	U	ng/L	P430630	
		Methoxychlor	0.32	U	ng/L	P430630	
		MGK-264	0.21	U	ng/L	P430630	
		Mirex	0.37	U	ng/L	P430630	
		Oxychlordane	0.32	U	ng/L	P430630	
		Permethrin	1.7	U	ng/L	P430630	
		Phenothrin	0.96	U	ng/L	P430630	
		Piperonyl Butoxide	0.16	U	ng/L	P430630	
		Prallethrin	2.1	U	ng/L	P430630	
		Tau-Fluvalinate	0.27	U	ng/L	P430630	
		Tetramethrin	0.80	U	ng/L	P430630	
		Trans-Nonachlor	0.21	U	ng/L	P430630	RPD
		Triclosan Methyl	0.16	UJ	ng/L	P430630	LCS
		Trifluralin	0.21	U	ng/L	P430630	
	EPA 8276	Chlordane	2.1	U	ng/L	P430630	
		Toxaphene	16	U	ng/L	P430630	
2413426	EPA 8270E	Oxybenzone**	11	U	ng/L	P430467	
		Acetochlor	0.21	U	ng/L	P430467	
		Octinoxate**	21	U	ng/L	P430467	
		Alachlor	0.42	U	ng/L	P430467	
		Avobenzone**	110	U	ng/L	P430467	MS
		Ametryn	1.2	U	ng/L	P430467	
		Atrazine	0.21	U	ng/L	P430467	
		PBDE-47**	4.2	U	ng/L	P430467	
		Atrazine Desethyl	1.4	U	ng/L	P430467	
		PBDE-99**	5.3	U	ng/L	P430467	
		Azinphos Methyl	3.2	U	ng/L	P430467	
		Tri-o-cresyl Phosphate**	6.3	U	ng/L	P430467	
		Azoxystrobin	0.42	U	ng/L	P430467	
		Bromacil	0.63	U	ng/L	P430467	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	13	U	ng/L	P430467	
		Butylate	0.21	U	ng/L	P430467	
		Dechlorane Plus**	32	U	ng/L	P430467	
		Caffeine**	7.9	U	ng/L	P430467	
		Dechlorane 602**	5.3	U	ng/L	P430467	
		Carbophenothion	0.53	U	ng/L	P430467	

Field ID: FB_05302023 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2413426	EPA 8270E	Dechlorane 603**	4.2	U	ng/L	P430467	
		Carfentrazone Ethyl	0.16	U	ng/L	P430467	
		Hexabromobenzene**	6.3	U	ng/L	P430467	
		Chlorfenapyr	0.32	U	ng/L	P430467	
		PBB-153**	8.5	U	ng/L	P430467	MS
		Chlorpyrifos Ethyl	0.32	U	ng/L	P430467	
		Pentabromotoluene**	3.2	U	ng/L	P430467	
		Chlorpyrifos Methyl	0.11	U	ng/L	P430467	MS
		Tris(2-chloroethyl) phosphate (TCEP)**	74	U	ng/L	P430467	
		Coumaphos	1.1	U	ng/L	P430467	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	16	U	ng/L	P430467	
		Cyanazine	5.3	U	ng/L	P430467	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P430467	
		Cyprodinil	0.21	U	ng/L	P430467	
		Tetradecachloro-m-terphenyl**	7.9	U	ng/L	P430467	MS
		Demeton	3.7	U	ng/L	P430467	
		Diazinon	0.13	U	ng/L	P430467	MS
		Difenoconazole	0.63	U	ng/L	P430467	
		Dimethenamid	0.11	U	ng/L	P430467	MS
		Dimethomorph	0.32	U	ng/L	P430467	
		Disulfoton	0.63	U	ng/L	P430467	
		Dithiopyr	1.1	UJ	ng/L	P430467	LCS, MS
		EPTC	0.53	U	ng/L	P430467	
		Ethion	0.32	U	ng/L	P430467	MS
		Ethoprop	0.13	U	ng/L	P430467	
		Etridiazole	0.11	U	ng/L	P430467	
		Fenamiphos	0.48	U	ng/L	P430467	
		Fenbuconazole	0.53	U	ng/L	P430467	
		Fipronil	0.21	U	ng/L	P430467	MS
		Fipronil Desulfinyl**	0.11	U	ng/L	P430467	
		Fipronil Sulfide	0.11	U	ng/L	P430467	
		Fipronil Sulfone	0.11	U	ng/L	P430467	
		Fluazifop-P-butyl	0.11	U	ng/L	P430467	
		Fludioxonil	0.11	U	ng/L	P430467	
		Flumioxazin	3.2	U	ng/L	P430467	
		Flutolanil	0.11	U	ng/L	P430467	
		Fluxapyroxad	0.26	U	ng/L	P430467	
		Fonofos	0.16	UJ	ng/L	P430467	LCS, MS
		Hexazinone	0.53	U	ng/L	P430467	
		Imazalil	0.69	U	ng/L	P430467	
		Iprodione	0.53	U	ng/L	P430467	
		Loratadine**	0.32	U	ng/L	P430467	
		Malathion	0.37	U	ng/L	P430467	
		Metalaxyl	0.53	U	ng/L	P430467	

Field ID: FB_05302023 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2413426	EPA 8270E	Metolachlor	0.79	U	ng/L	P430467	
		Metribuzin	0.42	U	ng/L	P430467	
		Mevinphos	1.1	U	ng/L	P430467	
		Molinate	0.26	U	ng/L	P430467	
		Myclobutanil	0.37	U	ng/L	P430467	
		Naled	2.6	U	ng/L	P430467	
		Napropamide	0.74	U	ng/L	P430467	
		Norflurazon	1.1	U	ng/L	P430467	
		Oxadiazon	0.37	U	ng/L	P430467	
		Oxyfluorfen	0.21	U	ng/L	P430467	
		Parathion Ethyl	0.16	U	ng/L	P430467	
		Parathion Methyl	0.21	U	ng/L	P430467	
		Pendimethalin	0.79	U	ng/L	P430467	
		Phenytoin**	5.6	U	ng/L	P430467	
		Phorate	0.26	U	ng/L	P430467	
		Prodiamine	0.21	U	ng/L	P430467	
		Prometon	3.2	U	ng/L	P430467	
		Prometryn	0.37	U	ng/L	P430467	
		Pronamide	0.11	U	ng/L	P430467	
		Propanil	0.11	U	ng/L	P430467	
		Propargite	0.85	U	ng/L	P430467	
		Propiconazole	0.63	U	ng/L	P430467	
		Pyraflufen Ethyl	0.32	U	ng/L	P430467	
		Pyridaben	1.5	U	ng/L	P430467	
		Pyriproxyfen	0.26	U	ng/L	P430467	
		Simazine	0.26	U	ng/L	P430467	
		Stirophos	0.42	U	ng/L	P430467	
		Sulfentrazone	1.5	U	ng/L	P430467	
		Tebuconazole	1.5	U	ng/L	P430467	
		Terbufos	0.21	U	ng/L	P430467	
		Terbuthylazine	0.21	U	ng/L	P430467	
		Thiobencarb	0.53	U	ng/L	P430467	
		Triadimefon	0.16	U	ng/L	P430467	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: MOUNTAIN LAKE AT CENTER **Collection Date/Time: 05/30/2023 12:30**

Field ID: G4SW0103 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2413402	DEP SOP: NU-094-1	Color (true)	50	A	PCU	P430602	
	EPA 180.1 Rev. 2.0	Turbidity	4.6		NTU	P430604	
	EPA 300.0 Rev. 2.1	Chloride	21	A	mg Cl/L	P430960	
		Sulfate	1.1	A	mg SO4/L	P430964	
	SM 2320 B-2011	Total Alkalinity	15		mg CaCO3/L	P430787	
	SM 2540 C-2015	TDS	92		mg/L	P431042	
	SM 2540 D-2015	TSS	7	I	mg/L	P431015	
	SM 4500-F- C-2011	Fluoride	0.11		mg F/L	P431428	
2413403	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P430812	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.5		mg N/L	P430754	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P430906	
	EPA 365.1 Rev. 2.0	Total-P	0.081		mg P/L	P430674	
	SM 5310 B-2011	Organic Carbon	16		mg C/L	P430799	
2413404	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P430608	

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: DOWLING LAKE 2 **Collection Date/Time: 05/30/2023 11:30**

Field ID: G4SW0084 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2413409	DEP SOP: NU-094-1	Color (true)	40		PCU	P430602	
	EPA 180.1 Rev. 2.0	Turbidity	3.4		NTU	P430604	
	EPA 300.0 Rev. 2.1	Chloride	15		mg Cl/L	P430960	
		Sulfate	5.0		mg SO4/L	P430964	
	SM 2320 B-2011	Total Alkalinity	12		mg CaCO3/L	P430788	
	SM 2540 C-2015	TDS	70		mg/L	P431042	
	SM 2540 D-2015	TSS	4	I	mg/L	P431015	
	SM 4500-F- C-2011	Fluoride	0.11		mg F/L	P431429	
2413410	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P430814	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P430754	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P430906	
	EPA 365.1 Rev. 2.0	Total-P	0.032		mg P/L	P430792	
	SM 5310 B-2011	Organic Carbon	12		mg C/L	P430799	

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: P430602

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P430603

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P430604

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430960

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430964

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430812

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430814

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430754

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430906

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: P430674

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430792

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P430608

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

Reference Method: EPA 8270E
Batch ID: P430467

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.20	U	ng/L
Butylate	0.20	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P430467

Component	Result	Code	Units
Coumaphos	1.0	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flumioxazin	3.0	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P430467

Component	Result	Code	Units
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	8.0	U	ng/L
PBB-153	8.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P430467

Component	Result	Code	Units
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	0.75	U	ng/L
Pendimethalin	0.75	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbufos	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P430467

Component	Result	Code	Units
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L

Reference Method: EPA 8270E
Batch ID: P430630

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P430630

Component	Result	Code	Units
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfluralin	0.15	U	ng/L
Ethalfluralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P430630

Component	Result	Code	Units
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276
Batch ID: P430630

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

Reference Method: EPA 8321B
Batch ID: P430549

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P430549

Component	Result	Code	Units
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P430640

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: P430649

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

Reference Method: EPA 8321B
Batch ID: P430798

Component	Result	Code	Units

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P430798

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

Reference Method: SM 2320 B-2011
Batch ID: P430787

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

Reference Method: SM 2320 B-2011
Batch ID: P430788

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

Reference Method: SM 2540 C-2015
Batch ID: P431042

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P431015

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P431428

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P431429

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P430799

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: P430602

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.3		P	90 - 110

Reference Method: DEP SOP: NU-094-1
Batch ID: P430603

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.9		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P430604

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430960

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430964

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430812

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430814

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430754

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	109		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430906

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430674

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430792

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P430608

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

Reference Method: EPA 8270E
Batch ID: P430467

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	107		P	42 - 162
Acetochlor	92.7		P	69 - 123
Alachlor	90.6		P	65 - 118
Ametryn	96.3		P	58 - 141
Atrazine	88.4		P	73 - 118
Atrazine Desethyl	83.4		P	32 - 125
Avobenzone	135		P	40 - 203
Azinphos Methyl	95.9		P	36 - 197
Azoxystrobin	106		P	58 - 226
Bromacil	86.8		P	48 - 120
Butylate	69.3		P	27 - 85.0
Caffeine	84.4		P	40 - 137
Carbophenothion	121		P	54 - 132
Carfentrazone Ethyl	127		P	60 - 142
Chlorfenapyr	99.4		P	53 - 117
Chlorpyrifos Ethyl	76.2		P	59 - 116
Chlorpyrifos Methyl	116		P	66 - 119
Coumaphos	79.9		P	11 - 234
Cyanazine	133		P	61 - 248
Cyprodinil	94.3		P	50 - 147
Dechlorane 602	87.6		P	50 - 150
Dechlorane 603	129		P	50 - 150
Dechlorane Plus	109		P	47 - 182
Demeton	81.0		P	30 - 138
Diazinon	111		P	67 - 126
Difenoconazole	91.0		P	38 - 205
Dimethenamid	103		P	57 - 111
Dimethomorph	140		P	16 - 212
Disulfoton	106		P	46 - 126
Dithiopyr	120		F	62 - 115
EPTC	63.9		P	28 - 80.0
Ethion	102		P	24 - 122
Ethoprop	97.5		P	62 - 113
Etridiazole	67.9		P	28 - 92.0

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P430467

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fenamiphos	88.8		P	57 - 128
Fenbuconazole	60.7		P	52 - 155
Fipronil	112		P	63 - 130
Fipronil Desulfinyl	109		P	61 - 130
Fipronil Sulfide	110		P	56 - 117
Fipronil Sulfone	110		P	52 - 118
Fluazifop-P-butyl	79.6		P	61 - 128
Fludioxonil	95.5		P	59 - 129
Flumioxazin	95.5		P	30 - 250
Flutolanil	84.5		P	53 - 127
Fluxapyroxad	106		P	42 - 132
Fonofos	119		F	61 - 110
Hexabromobenzene	137		P	50 - 150
Hexazinone	93.5		P	46 - 139
Imazalil	58.9		P	40 - 139
Iprodione	90.8		P	40 - 146
Loratadine	119		P	10 - 224
Malathion	87.0		P	61 - 135
Metalaxyl	87.9		P	58 - 121
Metolachlor	103		P	64 - 118
Metribuzin	85.9		P	45 - 245
Mevinphos	94.5		P	49 - 118
Molinate	66.0		P	42 - 92.0
Myclobutanil	96.0		P	55 - 127
Naled	41.6		P	10 - 114
Napropamide	97.3		P	39 - 121
Norflurazon	110		P	55 - 129
Octinoxate	126		P	26 - 166
Oxadiazon	80.4		P	54 - 115
Oxybenzone	127		P	49 - 135
Oxyfluorfen	130		P	64 - 139
Parathion Ethyl	96.8		P	70 - 111
Parathion Methyl	95.4		P	76 - 136
PBB-153	128		P	50 - 150
PBDE-47	110		P	41 - 148
PBDE-99	96.9		P	38 - 147
Pendimethalin	109		P	52 - 118
Pentabromotoluene	121		P	50 - 150
Phenytoin	39.7		P	10 - 162
Phorate	104		P	40 - 122
Prodiamine	75.8		P	26 - 141
Prometon	105		P	54 - 122
Prometryn	116		P	61 - 128
Pronamide	102		P	72 - 121
Propanil	86.6		P	45 - 144
Propargite	62.5		P	10 - 199
Propiconazole	90.6		P	56 - 127
Pyraflufen Ethyl	70.9		P	56 - 140
Pyridaben	81.8		P	26 - 211
Pyriproxyfen	80.5		P	33 - 194
Simazine	85.5		P	67 - 121
Stirophos	82.7		P	20 - 142

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P430467

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfentrazone	65.8		P	21 - 144
Tebuconazole	56.2		P	10 - 122
Terbufos	110		P	60 - 129
Terbuthylazine	86.5		P	69 - 113
Tetradecachloro-m-terphenyl	190		P	70 - 200
Thiobencarb	89.8		P	51 - 120
Tri-o-cresyl Phosphate	124		P	49 - 150
Triadimefon	96.6		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	112		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	113		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	117		P	70 - 180

Reference Method: EPA 8270E
Batch ID: P430630

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	51.0		P	10 - 92.0
Alpha-BHC	97.0		P	75 - 107
Alpha-Chlordane	55.0		P	50 - 108
Beta-BHC	132		P	36 - 138
Beta-Cyfluthrin	86.0		P	20 - 161
Bifenthrin	39.6		P	10 - 119
Chlorothalonil	94.2		P	26 - 186
Cis-Nonachlor	73.5		P	42 - 119
Cypermethrin	88.1		P	22 - 150
Dacthal	108		P	72 - 119
DDD-p,p'	76.9		P	45 - 107
DDE-p,p'	63.5		P	48 - 106
DDT-p,p'	67.1		P	48 - 110
Delta-BHC	116		P	54 - 140
Deltamethrin	123		P	22 - 189
Dichlobenil	105		P	36 - 117
Dicofol	53.5		P	46 - 155
Dieldrin	68.7		P	54 - 110
Endosulfan I	67.7		P	59 - 105
Endosulfan II	82.2		P	51 - 118
Endosulfan Sulfate	59.5		P	57 - 121
Endrin	105		P	10 - 120
Endrin Aldehyde	96.1		P	34 - 118
Endrin Ketone	76.3		P	69 - 177
Esfenvalerate	76.0		P	23 - 168
Ethalfluralin	69.7		P	49 - 99.0
Fenpropathrin	84.7		P	34 - 117
Gamma-BHC	117		P	72 - 117
Gamma-Chlordane	87.2		P	43 - 106
Heptachlor	57.2		P	41 - 98.0
Heptachlor Epoxide	64.5		P	57 - 106
Hexachlorobenzene	39.6		P	36 - 99.0
Kepone	46.5		P	16 - 215
Lambda-Cyhalothrin	80.6		P	21 - 177
Methoprene	64.6		P	10 - 119
Methoxychlor	84.7		P	60 - 112

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P430630

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
MGK-264	87.8		P	26 - 122
Mirex	62.9		P	10 - 169
Oxychlordane	59.6		P	43 - 105
PCB-1016	68.8		P	48 - 112
PCB-1260	63.0		P	44 - 118
Permethrin	87.0		P	24 - 148
Phenothrin	93.5		P	10 - 106
Piperonyl Butoxide	132		P	10 - 139
Prallethrin	60.8		P	17 - 109
Tau-Fluvalinate	88.0		P	13 - 131
Tetramethrin	118		P	10 - 132
Trans-Nonachlor	48.8		P	44 - 106
Triclosan Methyl	54.6		F	59 - 109
Trifluralin	60.5		P	44 - 101

Reference Method: EPA 8276
Batch ID: P430630

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	75.8		P	61 - 116
Toxaphene	76.2		P	48 - 124

Reference Method: EPA 8321B
Batch ID: P430549

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	93.9		P	40 - 150
2,4,5-T	82.5		P	40 - 150
Acetaminophen	88.2		P	30 - 150
Acetamiprid	75.0		P	40 - 150
Afidopyropen	69.9		P	30 - 150
Bentazon	115		P	30 - 150
Benzovindiflupyr	72.1		P	40 - 150
Carbamazepine	85.5		P	40 - 150
Clothianidin	82.3		P	40 - 150
Dinotefuran	91.1		P	40 - 150
Diuron	97.9		P	40 - 150
Fenuron	80.8		P	40 - 150
Fluridone	89.9		P	40 - 150
Hydrocodone	86.0		P	40 - 150
Ibuprofen	108		P	40 - 150
Imazapyr	91.0		P	40 - 150
Imidacloprid	76.8		P	40 - 150
Linuron	83.0		P	40 - 150
Mandestrobin	81.0		P	40 - 150
MCPP	84.9		P	40 - 150
Naproxen	63.4		P	40 - 150
Primidone	78.1		P	40 - 150
Pyraclostrobin	69.9		P	40 - 150
Silvex	84.4		P	40 - 150
Thiamethoxam	80.2		P	40 - 150
Tolfenpyrad	43.9		P	30 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P430549

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Triclopyr	77.8		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P430640

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	113		P	40 - 150
AMPA	110		P	40 - 150
Endothall	93.5		P	40 - 150
Glufosinate	96.2		P	40 - 150
Glyphosate	89.6		P	40 - 150
Sucralose	104		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P430649

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	113		P	40 - 150
2,4,5-T	73.2		P	40 - 150
Acetaminophen	86.4		P	30 - 150
Acetamiprid	68.2		P	40 - 150
Afidopyropen	63.8		P	30 - 150
Bentazon	118		P	30 - 150
Benzovindiflupyr	81.4		P	40 - 150
Carbamazepine	86.4		P	40 - 150
Clothianidin	83.1		P	40 - 150
Dinotefuran	95.4		P	40 - 150
Diuron	104		P	40 - 150
Fenuron	79.7		P	40 - 150
Fluridone	90.6		P	40 - 150
Hydrocodone	83.2		P	40 - 150
Ibuprofen	89.6		P	40 - 150
Imazapyr	102		P	40 - 150
Imidacloprid	78.1		P	40 - 150
Linuron	80.8		P	40 - 150
Mandestrobin	86.1		P	40 - 150
MCPP	88.1		P	40 - 150
Naproxen	45.1		P	40 - 150
Primidone	85.8		P	40 - 150
Pyraclostrobin	69.0		P	40 - 150
Silvex	83.2		P	40 - 150
Thiamethoxam	77.2		P	40 - 150
Tolfenpyrad	48.2		P	30 - 150
Triclopyr	73.1		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P430798

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	79.8		P	40 - 150
Aldicarb	60.4		P	30 - 150
Aldicarb Sulfone	94.9		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P430798

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldicarb Sulfoxide	102		P	40 - 150
Carbaryl	70.4		P	40 - 150
Carbofuran	76.6		P	40 - 150
Methiocarb	79.1		P	40 - 150
Methomyl	73.8		P	40 - 150
Oxamyl	87.3		P	40 - 150
Propoxur	73.5		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P430787

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.0		P	92 - 105

Reference Method: SM 2320 B-2011
Batch ID: P430788

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.1		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P431042

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	96.3		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P431015

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	95.3		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P431428

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.8		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P431429

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

Reference Method: SM 5310 B-2011
Batch ID: P430799

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.2		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430960

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413402	Chloride	103		P	90 - 110
2414251	Chloride	103		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430964

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413402	Sulfate	96.9		P	90 - 110
2414251	Sulfate	98.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430812

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413354	Ammonia-N	99.4	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430814

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413417	Ammonia-N	99.8	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430754

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2412656	Kjeldahl Nitrogen	107	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430906

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413403	NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430674

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413417	Total-P	103	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430792

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413903	Total-P	103	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P430608

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413404	O-Phosphate-P	102	102	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P430467

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413209	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	121	131	P/P	26 - 165
2413209	Acetochlor	85.0	95.1	P/P	67 - 124
2413209	Alachlor	93.2	96.1	P/P	60 - 120
2413209	Ametryn	132	156	P/P	54 - 216
2413209	Avobenzone	169	179	P/F	37 - 178
2413209	Azinphos Methyl	102	102	P/P	40 - 292
2413209	Bromacil	89.5	100	P/P	45 - 127
2413209	Butylate	67.4	70.4	P/P	20 - 83.0
2413209	Caffeine	93.0	95.4	P/P	10 - 194
2413209	Carbophenothion	126	124	P/P	57 - 127
2413209	Carfentrazone Ethyl	126	125	P/P	51 - 141
2413209	Chlorfenapyr	93.6	93.3	P/P	46 - 111
2413209	Chlorpyrifos Ethyl	83.1	86.2	P/P	52 - 120
2413209	Chlorpyrifos Methyl	120	124	F/F	63 - 119
2413209	Coumaphos	115	125	P/P	10 - 228
2413209	Cyanazine	139	160	P/P	59 - 241
2413209	Cyprodinil	106	108	P/P	47 - 146
2413209	Dechlorane 602	79.9	98.6	P/P	50 - 150
2413209	Dechlorane 603	131	122	P/P	50 - 150
2413209	Dechlorane Plus	85.2	89.2	P/P	50 - 150
2413209	Demeton	79.6	84.0	P/P	40 - 136
2413209	Diazinon	121	134	P/F	69 - 132
2413209	Difenoconazole	145	150	P/P	57 - 258
2413209	Dimethenamid	109	122	P/F	54 - 110
2413209	Dimethomorph	169	147	P/P	28 - 210
2413209	Disulfoton	100	114	P/P	43 - 133
2413209	Dithiopyr	136	127	F/F	39 - 116
2413209	EPTC	58.2	59.9	P/P	20 - 78.0
2413209	Ethion	130	137	F/F	17 - 119
2413209	Ethoprop	99.1	107	P/P	66 - 120
2413209	Etridiazole	71.0	71.1	P/P	28 - 96.0
2413209	Fenamiphos	91.3	88.0	P/P	41 - 126
2413209	Fenbuconazole	88.6	88.7	P/P	42 - 169
2413209	Fipronil	146	142	F/F	61 - 132
2413209	Fluazifop-P-butyl	79.2	76.5	P/P	53 - 131
2413209	Flumioxazin	169	178	P/P	19 - 300
2413209	Flutolanil	64.3	65.5	P/P	41 - 127
2413209	Fluxapyroxad	104	131	P/P	42 - 172
2413209	Fonofos	123	136	F/F	59 - 113
2413209	Hexabromobenzene	150	149	P/P	50 - 150
2413209	Hexazinone	113	114	P/P	66 - 122
2413209	Imazalil	93.2	87.6	P/P	21 - 283
2413209	Iprodione	88.0	95.0	P/P	43 - 150
2413209	Loratadine	182	184	P/P	23 - 201
2413209	Malathion	82.6	93.6	P/P	58 - 136
2413209	Mevinphos	98.5	106	P/P	50 - 126
2413209	Molinate	65.9	66.4	P/P	42 - 93.0
2413209	Myclobutanil	106	110	P/P	55 - 125
2413209	Naled	49.5	49.0	P/P	18 - 200
2413209	Napropamide	93.2	93.8	P/P	39 - 110
2413209	Norflurazon	100	97.8	P/P	48 - 128
2413209	Octinoxate	131	133	P/P	21 - 159

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P430467

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413209	Oxybenzone	138	142	P/P	41 - 142
2413209	Oxyfluorfen	137	132	P/P	64 - 153
2413209	Parathion Ethyl	109	102	P/P	69 - 114
2413209	Parathion Methyl	86.0	99.2	P/P	79 - 139
2413209	PBB-153	148	151	P/F	50 - 150
2413209	PBDE-47	111	125	P/P	27 - 144
2413209	PBDE-99	102	114	P/P	18 - 150
2413209	Pendimethalin	102	106	P/P	50 - 139
2413209	Pentabromotoluene	133	137	P/P	50 - 150
2413209	Phenytoin	51.8	61.9	P/P	10 - 146
2413209	Phorate	126	137	P/P	54 - 161
2413209	Prodiamine	79.6	92.0	P/P	30 - 161
2413209	Prometon	102	110	P/P	45 - 134
2413209	Prometryn	119	115	P/P	45 - 137
2413209	Pronamide	106	116	P/P	65 - 133
2413209	Propanil	87.2	90.9	P/P	49 - 142
2413209	Propargite	63.2	60.2	P/P	10 - 203
2413209	Propiconazole	109	106	P/P	38 - 146
2413209	Pyraflufen Ethyl	72.0	67.0	P/P	34 - 153
2413209	Pyridaben	128	112	P/P	12 - 192
2413209	Pyriproxyfen	89.1	95.1	P/P	33 - 180
2413209	Stirophos	80.3	85.8	P/P	10 - 128
2413209	Tebuconazole	49.7	60.0	P/P	10 - 133
2413209	Terbufos	115	129	P/P	65 - 139
2413209	Tetradecachloro-m-terphenyl	212	196	F/P	70 - 200
2413209	Thiobencarb	85.0	95.2	P/P	51 - 119
2413209	Tri-o-cresyl Phosphate	129	129	P/P	31 - 144
2413209	Triadimefon	90.5	112	P/P	48 - 119
2413209	Tris(1-chloro-2-propyl) phosphate (TCPP)	93.4	110	P/P	50 - 150
2413209	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	119	123	P/P	50 - 150
2413209	Tris(2-chloroethyl) phosphate (TCEP)	126	132	P/P	70 - 180

Reference Method: EPA 8270E
Batch ID: P430630

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414061	PCB-1016	57.4	58.2	P/P	46 - 111
2414061	PCB-1260	62.9	50.6	P/P	45 - 114
2414270	Aldrin	45.7	51.7	P/P	20 - 82.0
2414270	Alpha-BHC	91.4	83.8	P/P	71 - 109
2414270	Alpha-Chlordane	56.2	71.7	P/P	42 - 106
2414270	Beta-BHC	84.7	82.0	P/P	69 - 180
2414270	Beta-Cyfluthrin	91.7	73.9	P/P	18 - 175
2414270	Bifenthrin	66.9	50.2	P/P	21 - 128
2414270	Chlorothalonil	101	83.2	P/P	10 - 300
2414270	Cis-Nonachlor	59.3	70.5	P/P	34 - 106
2414270	Cypermethrin	91.2	79.7	P/P	22 - 158
2414270	Dacthal	73.3	82.8	P/P	54 - 116
2414270	DDD-p,p'	53.9	53.1	P/P	34 - 107
2414270	DDE-p,p'	64.3	67.0	P/P	33 - 110
2414270	DDT-p,p'	64.3	66.6	P/P	50 - 122
2414270	Delta-BHC	107	78.5	P/P	77 - 193

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P430630

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414270	Deltamethrin	177	139	P/P	10 - 195
2414270	Dichlobenil	56.3	58.2	P/P	25 - 113
2414270	Dicofol	52.6	60.8	P/P	38 - 247
2414270	Dieldrin	67.5	76.5	P/P	45 - 118
2414270	Endosulfan I	54.1	60.8	P/P	51 - 106
2414270	Endosulfan II	77.7	87.6	P/P	37 - 122
2414270	Endosulfan Sulfate	63.9	75.8	P/P	43 - 132
2414270	Endrin	71.9	99.8	P/P	29 - 101
2414270	Endrin Aldehyde	78.2	106	P/P	19 - 110
2414270	Endrin Ketone	79.1	112	P/P	60 - 140
2414270	Esfenvalerate	119	96.1	P/P	26 - 199
2414270	Ethalfluralin	68.5	80.5	P/P	45 - 99.0
2414270	Fenpropathrin	84.5	61.3	P/P	35 - 120
2414270	Gamma-BHC	83.4	84.6	P/P	63 - 128
2414270	Gamma-Chlordane	49.3	68.9	P/P	40 - 104
2414270	Heptachlor	55.2	66.8	P/P	36 - 97.0
2414270	Heptachlor Epoxide	55.2	82.2	P/P	49 - 184
2414270	Hexachlorobenzene	39.2	49.6	P/P	39 - 96.0
2414270	Kepone	63.2	71.6	P/P	10 - 217
2414270	Lambda-Cyhalothrin	108	97.0	P/P	21 - 193
2414270	Methoprene	54.1	63.3	P/P	20 - 106
2414270	Methoxychlor	88.7	86.5	P/P	53 - 118
2414270	MGK-264	63.1	83.1	P/P	40 - 118
2414270	Mirex	61.5	69.4	P/P	26 - 92.0
2414270	Oxychlordane	49.9	66.0	P/P	44 - 99.0
2414270	Permethrin	85.3	80.1	P/P	33 - 182
2414270	Phenothrin	74.2	83.7	P/P	10 - 129
2414270	Piperonyl Butoxide	139	162	P/P	10 - 211
2414270	Prallethrin	58.6	62.6	P/P	24 - 113
2414270	Tau-Fluvalinate	127	117	P/P	14 - 149
2414270	Tetramethrin	118	122	P/P	17 - 151
2414270	Trans-Nonachlor	50.1	84.7	P/P	42 - 102
2414270	Triclosan Methyl	50.2	56.7	P/P	48 - 108
2414270	Trifluralin	53.9	62.1	P/P	47 - 96.0

Reference Method: EPA 8276
Batch ID: P430630

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414061	Chlordane	85.4	77.2	P/P	53 - 126
2414061	Toxaphene	92.1	79.7	P/P	56 - 211

Reference Method: EPA 8321B
Batch ID: P430549

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2412954	2,4-D	104	120	P/P	40 - 150
2412954	2,4,5-T	98.1	105	P/P	40 - 150
2412954	Acetaminophen	89.4	106	P/P	30 - 150
2412954	Acetamiprid	76.4	84.0	P/P	40 - 150
2412954	Afidopyropen	71.5	80.7	P/P	30 - 150
2412954	Bentazon	97.2	88.9	P/P	30 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P430549

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2412954	Benzovindiflupyr	80.1	87.8	P/P	40 - 150
2412954	Carbamazepine	86.3	94.2	P/P	40 - 150
2412954	Clothianidin	96.5	114	P/P	40 - 150
2412954	Dinotefuran	97.5	109	P/P	40 - 150
2412954	Diuron	91.8	98.5	P/P	40 - 150
2412954	Fenuron	74.7	79.4	P/P	40 - 150
2412954	Fluridone	80.4	86.8	P/P	40 - 150
2412954	Hydrocodone	90.7	94.2	P/P	40 - 150
2412954	Ibuprofen	102	95.2	P/P	40 - 150
2412954	Imazapyr	101	112	P/P	40 - 150
2412954	Imidacloprid	110	131	P/P	40 - 150
2412954	Linuron	79.5	84.8	P/P	40 - 150
2412954	Mandestrobin	85.0	90.3	P/P	40 - 150
2412954	MCPP	101	118	P/P	40 - 150
2412954	Naproxen	56.7	46.3	P/P	40 - 150
2412954	Primidone	88.3	93.3	P/P	40 - 150
2412954	Pyraclostrobin	81.2	85.5	P/P	40 - 150
2412954	Silvex	85.4	93.1	P/P	40 - 150
2412954	Thiamethoxam	101	117	P/P	40 - 150
2412954	Tolfenpyrad	48.4	56.4	P/P	30 - 150
2412954	Triclopyr	84.9	108	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P430640

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413241	Acesulfame K	116	117	P/P	40 - 150
2413241	AMPA	94.5	92.1	P/P	40 - 150
2413241	Endothall	94.8	91.2	P/P	40 - 150
2413241	Glufosinate	82.2	85.9	P/P	40 - 150
2413241	Glyphosate	81.1	86.0	P/P	40 - 150
2413241	Sucralose	126	104	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P430649

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413433	2,4-D	97.5	95.5	P/P	40 - 150
2413433	2,4,5-T	84.5	89.9	P/P	40 - 150
2413433	Acetaminophen	93.7	86.9	P/P	30 - 150
2413433	Acetamiprid	44.4	55.8	P/P	40 - 150
2413433	Afidopyropen	52.6	69.4	P/P	30 - 150
2413433	Bentazon	79.6	84.6	P/P	30 - 150
2413433	Benzovindiflupyr	84.4	76.5	P/P	40 - 150
2413433	Carbamazepine	73.1	72.2	P/P	40 - 150
2413433	Clothianidin	83.3	80.7	P/P	40 - 150
2413433	Dinotefuran	69.7	65.7	P/P	40 - 150
2413433	Diuron	88.4	82.3	P/P	40 - 150
2413433	Fenuron	55.3	55.4	P/P	40 - 150
2413433	Fluridone	82.7	74.3	P/P	40 - 150
2413433	Hydrocodone	65.4	63.9	P/P	40 - 150
2413433	Ibuprofen	47.6	57.7	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P430649

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413433	Imazapyr	95.3	91.0	P/P	40 - 150
2413433	Imidacloprid	109	103	P/P	40 - 150
2413433	Linuron	77.2	78.7	P/P	40 - 150
2413433	Mandestrobin	80.8	83.2	P/P	40 - 150
2413433	MCPP	82.9	82.4	P/P	40 - 150
2413433	Naproxen	54.3	42.9	P/P	40 - 150
2413433	Primidone	84.3	76.6	P/P	40 - 150
2413433	Pyraclostrobin	79.6	79.0	P/P	40 - 150
2413433	Silvex	73.4	77.5	P/P	40 - 150
2413433	Thiamethoxam	72.7	73.5	P/P	40 - 150
2413433	Tolfenpyrad	54.1	46.5	P/P	30 - 150
2413433	Triclopyr	79.4	76.5	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P430798

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413797	3-Hydroxycarbofuran	86.9	86.3	P/P	40 - 150
2413797	Aldicarb	57.9	63.4	P/P	30 - 150
2413797	Aldicarb Sulfone	84.6	84.4	P/P	40 - 150
2413797	Aldicarb Sulfoxide	35.8	37.4	F/F	40 - 150
2413797	Carbaryl	74.1	65.1	P/P	40 - 150
2413797	Carbofuran	57.1	58.5	P/P	40 - 150
2413797	Methiocarb	69.2	67.5	P/P	40 - 150
2413797	Methomyl	59.7	59.4	P/P	40 - 150
2413797	Oxamyl	72.5	72.9	P/P	40 - 150
2413797	Propoxur	56.3	57.1	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P431428

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2412514	Fluoride	99.1	97.5	P/P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P431429

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414566	Fluoride	103	103	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P430799

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413410	Organic Carbon	94.4	98.2	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P430602

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413402	Color (true)	1.41	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P430603

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413405	Color (true)	4.58	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P430604

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413237	Turbidity	3.54	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430960

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413402	Chloride	1.99	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430964

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413402	Sulfate	2.95	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430812

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413354	Ammonia-N	0.981	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430814

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413417	Ammonia-N	1.09	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430754

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2412656	Kjeldahl Nitrogen	3.09	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430906

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413403	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430674

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413417	Total-P	0.536	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430792

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413903	Total-P	0.439	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P430608

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413404	O-Phosphate-P	0.685	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P430467

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413209	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	8.23	Spike	P	0 - 37
2413209	Acetochlor	11.3	Spike	P	0 - 28
2413209	Alachlor	3.01	Spike	P	0 - 30
2413209	Ametryn	16.9	Spike	P	0 - 32
2413209	Atrazine	6.79	Spike	P	0 - 41
2413209	Atrazine Desethyl	1.67	Spike	P	0 - 36
2413209	Avobenzone	5.80	Spike	P	0 - 36
2413209	Azinphos Methyl	0.615	Spike	P	0 - 75
2413209	Azoxystrobin	1.20	Spike	P	0 - 39
2413209	Bromacil	11.0	Spike	P	0 - 33
2413209	Butylate	4.46	Spike	P	0 - 44
2413209	Caffeine	2.57	Spike	P	0 - 74
2413209	Carbophenothion	1.65	Spike	P	0 - 25
2413209	Carfentrazone Ethyl	1.16	Spike	P	0 - 27
2413209	Chlorfenapyr	0.401	Spike	P	0 - 24
2413209	Chlorpyrifos Ethyl	3.71	Spike	P	0 - 26
2413209	Chlorpyrifos Methyl	3.85	Spike	P	0 - 26
2413209	Coumaphos	8.23	Spike	P	0 - 28
2413209	Cyanazine	13.9	Spike	P	0 - 48
2413209	Cyprodinil	1.44	Spike	P	0 - 29
2413209	Dechlorane 602	20.9	Spike	P	0 - 30
2413209	Dechlorane 603	7.30	Spike	P	0 - 30
2413209	Dechlorane Plus	4.61	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P430467

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413209	Demeton	5.39	Spike	P	0 - 33
2413209	Diazinon	10.3	Spike	P	0 - 29
2413209	Difenoconazole	3.45	Spike	P	0 - 34
2413209	Dimethenamid	7.36	Spike	P	0 - 39
2413209	Dimethomorph	14.0	Spike	P	0 - 51
2413209	Disulfoton	13.2	Spike	P	0 - 30
2413209	Dithiopyr	6.78	Spike	P	0 - 26
2413209	EPTC	2.93	Spike	P	0 - 43
2413209	Ethion	5.52	Spike	P	0 - 79
2413209	Ethoprop	8.12	Spike	P	0 - 29
2413209	Etridiazole	0.143	Spike	P	0 - 33
2413209	Fenamiphos	3.61	Spike	P	0 - 40
2413209	Fenbuconazole	0.108	Spike	P	0 - 74
2413209	Fipronil	2.06	Spike	P	0 - 29
2413209	Fipronil Desulfinyl	11.3	Spike	P	0 - 32
2413209	Fipronil Sulfide	0.965	Spike	P	0 - 30
2413209	Fipronil Sulfone	1.22	Spike	P	0 - 33
2413209	Fluazifop-P-butyl	3.52	Spike	P	0 - 38
2413209	Fludioxonil	2.90	Spike	P	0 - 29
2413209	Flumioxazin	5.27	Spike	P	0 - 51
2413209	Flutolanil	1.32	Spike	P	0 - 25
2413209	Fluxapyroxad	13.6	Spike	P	0 - 45
2413209	Fonofos	10.3	Spike	P	0 - 27
2413209	Hexabromobenzene	0.693	Spike	P	0 - 30
2413209	Hexazinone	0.539	Spike	P	0 - 30
2413209	Imazalil	6.16	Spike	P	0 - 100
2413209	Iprodione	7.59	Spike	P	0 - 33
2413209	Loratadine	1.36	Spike	P	0 - 56
2413209	Malathion	12.5	Spike	P	0 - 37
2413209	Metalaxyl	6.85	Spike	P	0 - 40
2413209	Metolachlor	1.57	Spike	P	0 - 29
2413209	Metribuzin	10.2	Spike	P	0 - 45
2413209	Mevinphos	7.15	Spike	P	0 - 29
2413209	Molinate	0.681	Spike	P	0 - 33
2413209	Myclobutanil	3.82	Spike	P	0 - 26
2413209	Naled	1.01	Spike	P	0 - 37
2413209	Napropamide	0.677	Spike	P	0 - 44
2413209	Norflurazon	2.27	Spike	P	0 - 30
2413209	Octinoxate	1.24	Spike	P	0 - 45
2413209	Oxadiazon	2.25	Spike	P	0 - 28
2413209	Oxybenzone	2.41	Spike	P	0 - 46
2413209	Oxyfluorfen	4.22	Spike	P	0 - 28
2413209	Parathion Ethyl	6.18	Spike	P	0 - 31
2413209	Parathion Methyl	14.2	Spike	P	0 - 29
2413209	PBB-153	1.94	Spike	P	0 - 30
2413209	PBDE-47	11.7	Spike	P	0 - 36
2413209	PBDE-99	10.8	Spike	P	0 - 40
2413209	Pendimethalin	4.01	Spike	P	0 - 33
2413209	Pentabromotoluene	2.32	Spike	P	0 - 30
2413209	Phenytoin	17.7	Spike	P	0 - 100
2413209	Phorate	7.98	Spike	P	0 - 36

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P430467

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413209	Prodiamine	14.5	Spike	P	0 - 71
2413209	Prometon	7.02	Spike	P	0 - 36
2413209	Prometryn	3.52	Spike	P	0 - 28
2413209	Pronamide	8.20	Spike	P	0 - 24
2413209	Propanil	4.13	Spike	P	0 - 28
2413209	Propargite	4.78	Spike	P	0 - 43
2413209	Propiconazole	3.37	Spike	P	0 - 33
2413209	Pyraflufen Ethyl	7.21	Spike	P	0 - 29
2413209	Pyridaben	12.8	Spike	P	0 - 30
2413209	Pyriproxyfen	6.54	Spike	P	0 - 79
2413209	Simazine	3.39	Spike	P	0 - 29
2413209	Stirophos	6.73	Spike	P	0 - 61
2413209	Sulfentrazone	0.197	Spike	P	0 - 33
2413209	Tebuconazole	18.7	Spike	P	0 - 69
2413209	Terbufos	11.9	Spike	P	0 - 29
2413209	Terbuthylazine	12.9	Spike	P	0 - 32
2413209	Tetradecachloro-m-terphenyl	7.70	Spike	P	0 - 30
2413209	Thiobencarb	11.3	Spike	P	0 - 26
2413209	Tri-o-cresyl Phosphate	0.616	Spike	P	0 - 33
2413209	Triadimefon	20.9	Spike	P	0 - 28
2413209	Tris(1-chloro-2-propyl) phosphate (TCPP)	15.8	Spike	P	0 - 30
2413209	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	3.39	Spike	P	0 - 30
2413209	Tris(2-chloroethyl) phosphate (TCEP)	4.69	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P430630

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414061	PCB-1016	1.26	Spike	P	0 - 32
2414061	PCB-1260	17.9	Spike	P	0 - 31
2414270	Aldrin	12.2	Spike	P	0 - 41
2414270	Alpha-BHC	8.62	Spike	P	0 - 25
2414270	Alpha-Chlordane	24.2	Spike	P	0 - 33
2414270	Beta-BHC	3.21	Spike	P	0 - 36
2414270	Beta-Cyfluthrin	21.5	Spike	P	0 - 42
2414270	Bifenthrin	28.6	Spike	P	0 - 53
2414270	Chlorothalonil	19.7	Spike	P	0 - 71
2414270	Cis-Nonachlor	17.2	Spike	P	0 - 29
2414270	Cypermethrin	13.4	Spike	P	0 - 40
2414270	Dacthal	12.2	Spike	P	0 - 26
2414270	DDD-p,p'	1.53	Spike	P	0 - 39
2414270	DDE-p,p'	4.16	Spike	P	0 - 33
2414270	DDT-p,p'	3.52	Spike	P	0 - 40
2414270	Delta-BHC	30.6	Spike	P	0 - 37
2414270	Deltamethrin	24.1	Spike	P	0 - 100
2414270	Dichlobenil	3.38	Spike	P	0 - 40
2414270	Dicofol	14.5	Spike	P	0 - 31
2414270	Dieldrin	12.5	Spike	P	0 - 27
2414270	Endosulfan I	11.6	Spike	P	0 - 23
2414270	Endosulfan II	12.1	Spike	P	0 - 28

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P430630

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414270	Endosulfan Sulfate	17.1	Spike	P	0 - 38
2414270	Endrin	32.5	Spike	P	0 - 63
2414270	Endrin Aldehyde	29.9	Spike	P	0 - 60
2414270	Endrin Ketone	34.3	Spike	P	0 - 37
2414270	Esfenvalerate	21.4	Spike	P	0 - 52
2414270	Ethalfluralin	16.1	Spike	P	0 - 23
2414270	Fenpropathrin	31.8	Spike	P	0 - 32
2414270	Gamma-BHC	1.40	Spike	P	0 - 17
2414270	Gamma-Chlordane	33.2	Spike	P	0 - 40
2414270	Heptachlor	19.0	Spike	P	0 - 29
2414270	Heptachlor Epoxide	39.3	Spike	F	0 - 25
2414270	Hexachlorobenzene	23.2	Spike	P	0 - 36
2414270	Kepone	12.5	Spike	P	0 - 93
2414270	Lambda-Cyhalothrin	10.3	Spike	P	0 - 55
2414270	Methoprene	15.6	Spike	P	0 - 53
2414270	Methoxychlor	2.49	Spike	P	0 - 29
2414270	MGK-264	27.3	Spike	P	0 - 35
2414270	Mirex	12.1	Spike	P	0 - 46
2414270	Oxychlordane	27.7	Spike	P	0 - 29
2414270	Permethrin	6.29	Spike	P	0 - 44
2414270	Phenothrin	12.0	Spike	P	0 - 56
2414270	Piperonyl Butoxide	14.9	Spike	P	0 - 100
2414270	Prallethrin	6.56	Spike	P	0 - 42
2414270	Tau-Fluvalinate	8.23	Spike	P	0 - 54
2414270	Tetramethrin	3.53	Spike	P	0 - 51
2414270	Trans-Nonachlor	51.3	Spike	F	0 - 37
2414270	Triclosan Methyl	12.1	Spike	P	0 - 31
2414270	Trifluralin	14.0	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P430630

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414061	Chlordane	10.0	Spike	P	0 - 25
2414061	Toxaphene	14.5	Spike	P	0 - 26

Reference Method: EPA 8321B
Batch ID: P430549

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2412954	2,4-D	13.8	Spike	P	0 - 30
2412954	2,4,5-T	6.35	Spike	P	0 - 30
2412954	Acetaminophen	16.6	Spike	P	0 - 30
2412954	Acetamiprid	9.53	Spike	P	0 - 30
2412954	Afidopyropen	12.0	Spike	P	0 - 30
2412954	Bentazon	8.84	Spike	P	0 - 30
2412954	Benzovindiflupyr	9.23	Spike	P	0 - 30
2412954	Carbamazepine	8.74	Spike	P	0 - 30
2412954	Clothianidin	16.3	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P430549

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2412954	Dinotefuran	11.5	Spike	P	0 - 30
2412954	Diuron	7.05	Spike	P	0 - 30
2412954	Fenuron	6.07	Spike	P	0 - 30
2412954	Fluridone	7.60	Spike	P	0 - 30
2412954	Hydrocodone	3.76	Spike	P	0 - 30
2412954	Ibuprofen	6.50	Spike	P	0 - 30
2412954	Imazapyr	10.5	Spike	P	0 - 30
2412954	Imidacloprid	17.4	Spike	P	0 - 30
2412954	Linuron	6.46	Spike	P	0 - 30
2412954	Mandestrobin	6.09	Spike	P	0 - 30
2412954	MCPP	15.5	Spike	P	0 - 30
2412954	Naproxen	20.1	Spike	P	0 - 30
2412954	Primidone	5.47	Spike	P	0 - 30
2412954	Pyraclostrobin	5.15	Spike	P	0 - 30
2412954	Silvex	8.64	Spike	P	0 - 30
2412954	Thiamethoxam	15.1	Spike	P	0 - 30
2412954	Tolfenpyrad	15.4	Spike	P	0 - 30
2412954	Triclopyr	23.5	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P430640

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413241	Acesulfame K	0.959	Spike	P	0 - 30
2413241	AMPA	2.55	Spike	P	0 - 30
2413241	Endothall	3.87	Spike	P	0 - 30
2413241	Glufosinate	4.44	Spike	P	0 - 30
2413241	Glyphosate	5.86	Spike	P	0 - 30
2413241	Sucralose	18.3	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P430649

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413433	2,4-D	1.64	Spike	P	0 - 30
2413433	2,4,5-T	6.22	Spike	P	0 - 30
2413433	Acetaminophen	7.51	Spike	P	0 - 30
2413433	Acetamiprid	22.9	Spike	P	0 - 30
2413433	Afidopyropen	27.5	Spike	P	0 - 30
2413433	Bentazon	6.10	Spike	P	0 - 30
2413433	Benzovindiflupyr	9.79	Spike	P	0 - 30
2413433	Carbamazepine	1.29	Spike	P	0 - 30
2413433	Clothianidin	3.17	Spike	P	0 - 30
2413433	Dinotefuran	5.89	Spike	P	0 - 30
2413433	Diuron	7.14	Spike	P	0 - 30
2413433	Fenuron	0.0396	Spike	P	0 - 30
2413433	Fluridone	10.6	Spike	P	0 - 30
2413433	Hydrocodone	2.28	Spike	P	0 - 30
2413433	Ibuprofen	19.2	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P430649

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413433	Imazapyr	4.53	Spike	P	0 - 30
2413433	Imidacloprid	4.91	Spike	P	0 - 30
2413433	Linuron	1.94	Spike	P	0 - 30
2413433	Mandestrobin	2.91	Spike	P	0 - 30
2413433	MCPP	0.530	Spike	P	0 - 30
2413433	Naproxen	23.4	Spike	P	0 - 30
2413433	Primidone	9.63	Spike	P	0 - 30
2413433	Pyraclostrobin	0.862	Spike	P	0 - 30
2413433	Silvex	5.37	Spike	P	0 - 30
2413433	Thiamethoxam	1.22	Spike	P	0 - 30
2413433	Tolfenpyrad	15.2	Spike	P	0 - 30
2413433	Triclopyr	3.78	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P430798

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413797	3-Hydroxycarbofuran	0.771	Spike	P	0 - 30
2413797	Aldicarb	9.16	Spike	P	0 - 30
2413797	Aldicarb Sulfone	0.163	Spike	P	0 - 30
2413797	Aldicarb Sulfoxide	4.30	Spike	P	0 - 30
2413797	Carbaryl	13.0	Spike	P	0 - 30
2413797	Carbofuran	2.37	Spike	P	0 - 30
2413797	Methiocarb	2.51	Spike	P	0 - 30
2413797	Methomyl	0.464	Spike	P	0 - 30
2413797	Oxamyl	0.499	Spike	P	0 - 30
2413797	Propoxur	1.30	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P430787

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413223	Total Alkalinity	2.71	Sample	P	0 - 3.9

Reference Method: SM 2320 B-2011
Batch ID: P430788

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413791	Total Alkalinity	0.348	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P431042

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413223	TDS	4.68	Sample	P	0 - 10

Quality Assurance Report
Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P431428

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2412514	Fluoride	1.55	Spike	P	0 - 1.9

Reference Method: SM 4500-F- C-2011
Batch ID: P431429

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414566	Fluoride	0.503	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P430799

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413410	Organic Carbon	2.53	Spike	P	0 - 20

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2413419
Field Sample ID: G4SW0025

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	63.4	P	30 - 160

Lab Sample ID: 2413420
Field Sample ID: FB_05302023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	108	P	30 - 160

Lab Sample ID: 2413421
Field Sample ID: G4SW0025

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	81.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	87.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	58.9	P	30 - 160
EPA 8321B	Diuron-d6	64.2	P	30 - 160
EPA 8321B	Endothall-d6	119	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	96.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	60.0	P	30 - 160
EPA 8321B	Primidone-d5	63.5	P	30 - 160
EPA 8321B	Sucralose-d6	107	P	30 - 160

Lab Sample ID: 2413422
Field Sample ID: FB_05302023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	95.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	80.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	86.3	P	30 - 160
EPA 8321B	Diuron-d6	88.1	P	30 - 160
EPA 8321B	Endothall-d6	96.7	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	105	P	30 - 160
EPA 8321B	Ibuprofen-d3	64.9	P	30 - 160
EPA 8321B	Primidone-d5	77.2	P	30 - 160
EPA 8321B	Sucralose-d6	122	P	30 - 160

Lab Sample ID: 2413423
Field Sample ID: G4SW0025

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	61.3	P	29 - 130
EPA 8270E	Decachlorobiphenyl	32.5	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	52.6	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	45.0	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	53.3	P	30 - 101
EPA 8276	PCNB	95.9	P	48 - 121

Lab Sample ID: 2413424
Field Sample ID: FB_05302023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	74.8	P	29 - 130

Quality Assurance Report
Surrogates

Lab Sample ID: 2413424
Field Sample ID: FB_05302023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	58.3	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	70.2	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	60.1	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	54.8	P	30 - 101
EPA 8276	PCNB	82.5	P	48 - 121

Lab Sample ID: 2413425
Field Sample ID: G4SW0025

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	103	P	20 - 200
EPA 8270E	Simazine-d10	88.2	P	62 - 142
EPA 8270E	Terbufos-d10	96.7	P	58 - 132
EPA 8270E	Terphenyl-d14	79.3	P	52 - 137

Lab Sample ID: 2413426
Field Sample ID: FB_05302023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	85.9	P	20 - 200
EPA 8270E	Simazine-d10	86.8	P	62 - 142
EPA 8270E	Terbufos-d10	96.4	P	58 - 132
EPA 8270E	Terphenyl-d14	85.4	P	52 - 137

Quality Assurance Report
Calibration Verification

Reference Method: DEP SOP: NU-094-1
Run ID: A119489
Included Lab Sample IDs: 2413402, 2413405, 2413406, 2413409

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	97.8	98.5	P/P	90 - 110
Color (true)	98.9	97.8	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A119490
Included Lab Sample IDs: 2413402, 2413405, 2413406, 2413409

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A119493
Included Lab Sample IDs: 2413404

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.8	99.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A119547
Included Lab Sample IDs: 2413403, 2413407

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.8	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A119553
Included Lab Sample IDs: 2413408

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

Reference Method: SM 2320 B-2011
Run ID: A119566
Included Lab Sample IDs: 2413402, 2413405, 2413406, 2413409

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.8	97.6	P/P	90 - 110
Total Alkalinity	97.2	96.8	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A119574
Included Lab Sample IDs: 2413403, 2413407, 2413408, 2413410

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.8	98.2	P/P	90 - 110
Organic Carbon	98.2	97.7	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A119578
Included Lab Sample IDs: 2413403, 2413407, 2413408, 2413410

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.7	99.7	P/P	90 - 110
Ammonia-N	98.9	98.6	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A119586
Included Lab Sample IDs: 2413421, 2413422

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	89.2	93.7	P/P	50 - 150
2,4-D	98.3	98.6	P/P	50 - 150
2,4,5-T	81.7	93.2	P/P	50 - 150
2,4,5-T	90.3	81.9	P/P	50 - 150
3-Hydroxycarbofuran	111	111	P/P	60 - 150
Acetaminophen	113	99.4	P/P	60 - 160
Acetaminophen	97.6	100	P/P	60 - 160
Acetamiprid	101	92.0	P/P	50 - 150
Acetamiprid	92.0	95.7	P/P	50 - 150
Afidopyropen	118	113	P/P	50 - 150
Afidopyropen	93.2	104	P/P	50 - 150
Aldicarb	100	101	P/P	60 - 150
Aldicarb Sulfone	115	114	P/P	50 - 150
Aldicarb Sulfoxide	115	120	P/P	50 - 150
Bentazon	136	130	P/P	50 - 160
Bentazon	138	138	P/P	50 - 160
Benzovindiflupyr	103	92.3	P/P	50 - 150
Benzovindiflupyr	99.8	102	P/P	50 - 150
Carbamazepine	115	103	P/P	60 - 150
Carbamazepine	99.4	109	P/P	60 - 150
Carbaryl	102	89.3	P/P	60 - 150
Carbofuran	106	108	P/P	50 - 150
Clothianidin	103	94.6	P/P	60 - 150
Clothianidin	90.8	92.3	P/P	60 - 150
Dinotefuran	105	105	P/P	50 - 150
Dinotefuran	114	106	P/P	50 - 150
Diuron	126	118	P/P	60 - 160
Diuron	134	127	P/P	60 - 160
Fenuron	104	93.8	P/P	60 - 150
Fenuron	93.5	97.8	P/P	60 - 150
Fluridone	108	110	P/P	60 - 160
Fluridone	118	103	P/P	60 - 160
Hydrocodone	113	103	P/P	60 - 150
Hydrocodone	98.0	106	P/P	60 - 150
Ibuprofen	139	202*	P/F	50 - 160
Ibuprofen	78.3	80.6	P/P	50 - 160
Imazapyr	109	111	P/P	50 - 150
Imazapyr	114	123	P/P	50 - 150
Imidacloprid	88.8	89.1	P/P	60 - 150
Imidacloprid	96.8	89.5	P/P	60 - 150
Linuron	110	98.9	P/P	60 - 150
Linuron	116	107	P/P	60 - 150
Mandestrobin	108	101	P/P	50 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A119586
Included Lab Sample IDs: 2413421, 2413422

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Mandestrobin	108	107	P/P	50 - 150
MCPP	80.3	91.4	P/P	50 - 150
MCPP	93.9	89.6	P/P	50 - 150
Methiocarb	115	105	P/P	50 - 150
Methomyl	98.7	99.6	P/P	50 - 150
Naproxen	83.4	121	P/P	50 - 160
Naproxen	95.2	61.2	P/P	50 - 160
Oxamyl	105	109	P/P	50 - 150
Primidone	102	104	P/P	60 - 150
Primidone	95.4	95.0	P/P	60 - 150
Propoxur	104	118	P/P	50 - 150
Pyraclostrobin	101	99.6	P/P	60 - 150
Pyraclostrobin	93.5	98.9	P/P	60 - 150
Silvex	92.3	90.5	P/P	50 - 150
Silvex	95.9	83.9	P/P	50 - 150
Thiamethoxam	102	92.7	P/P	50 - 150
Thiamethoxam	88.6	98.3	P/P	50 - 150
Tolfenpyrad	87.9	92.0	P/P	60 - 150
Tolfenpyrad	98.1	90.5	P/P	60 - 150
Triclopyr	70.1	67.3	P/P	50 - 150
Triclopyr	87.9	72.9	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A119591
Included Lab Sample IDs: 2413425, 2413426

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	102		P	80 - 120
Avobenzone	107		P	80 - 120
Dechlorane 602	101		P	80 - 120
Dechlorane 603	98.8		P	80 - 120
Dechlorane Plus	97.5		P	80 - 120
Hexabromobenzene	101		P	80 - 120
Octinoxate	98.9		P	80 - 120
Oxybenzone	99.1		P	80 - 120
PBB-153	102		P	80 - 120
PBDE-47	97.4		P	80 - 120
PBDE-99	103		P	80 - 120
Pentabromotoluene	98.8		P	80 - 120
Tetradecachloro-m-terphenyl	111		P	80 - 120
Tri-o-cresyl Phosphate	98.1		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	83.8		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	93.9		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	93.9		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A119594
Included Lab Sample IDs: 2413403, 2413407, 2413408, 2413410

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	98.6	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A119605
Included Lab Sample IDs: 2413402, 2413405, 2413406, 2413409

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	95.9	96.1	P/P	90 - 110
Sulfate	97.9	98.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A119628
Included Lab Sample IDs: 2413403, 2413407, 2413408, 2413410

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	104	105	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A119630
Included Lab Sample IDs: 2413421, 2413422

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	112	143	P/P	60 - 160
Sucralose	140	105	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A119635
Included Lab Sample IDs: 2413421, 2413422

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	100	113	P/P	60 - 160
Endothall	95.7	154	P/P	60 - 160
Glufosinate	99.6	103	P/P	60 - 160
Glyphosate	95.1	131	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A119636
Included Lab Sample IDs: 2413410

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.0	99.5	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A119664
Included Lab Sample IDs: 2413425, 2413426

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	89.7		P	80 - 120
Alachlor	87.4		P	80 - 120
Ametryn	98.0		P	80 - 120
Atrazine	89.1		P	80 - 120
Atrazine Desethyl	97.3		P	80 - 120
Azinphos Methyl	87.8		P	80 - 120
Azoxystrobin	99.4		P	80 - 120
Bromacil	102		P	80 - 120
Butylate	101		P	80 - 120
Caffeine	85.5		P	80 - 120
Carbophenothion	95.3		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A119664
Included Lab Sample IDs: 2413425, 2413426

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carfentrazone Ethyl	103		P	80 - 120
Chlorfenapyr	86.0		P	80 - 120
Chlorpyrifos Ethyl	88.9		P	80 - 120
Chlorpyrifos Methyl	93.6		P	80 - 120
Coumaphos	94.9		P	80 - 120
Cyanazine	108		P	80 - 120
Cyprodinil	92.3		P	80 - 120
Demeton	100		P	80 - 120
Diazinon	97.7		P	80 - 120
Difenoconazole	89.7		P	80 - 120
Dimethenamid	101		P	80 - 120
Dimethomorph	87.1		P	80 - 120
Disulfoton	101		P	80 - 120
Dithiopyr	97.5		P	80 - 120
EPTC	98.5		P	80 - 120
Ethion	86.6		P	80 - 120
Ethoprop	98.7		P	80 - 120
Etridiazole	97.3		P	80 - 120
Fenamiphos	95.7		P	80 - 120
Fenbuconazole	86.6		P	80 - 120
Fipronil	88.8		P	80 - 120
Fipronil Desulfinyl	102		P	80 - 120
Fipronil Sulfide	104		P	80 - 120
Fipronil Sulfone	97.9		P	80 - 120
Fluazifop-P-butyl	102		P	80 - 120
Fludioxonil	97.6		P	80 - 120
Flumioxazin	92.3		P	80 - 120
Flutolanil	107		P	80 - 120
Fluxapyroxad	97.7		P	80 - 120
Fonofos	101		P	80 - 120
Hexazinone	103		P	80 - 120
Imazalil	95.0		P	80 - 120
Iprodione	84.3		P	80 - 120
Loratadine	81.3		P	80 - 120
Malathion	83.3		P	80 - 120
Metalaxyl	85.0		P	80 - 120
Metolachlor	99.4		P	80 - 120
Metribuzin	101		P	80 - 120
Mevinphos	88.5		P	80 - 120
Molinate	88.4		P	80 - 120
Myclobutanil	98.5		P	80 - 120
Naled	91.1		P	80 - 120
Napropamide	102		P	80 - 120
Norflurazon	104		P	80 - 120
Oxadiazon	105		P	80 - 120
Oxyfluorfen	98.6		P	80 - 120
Parathion Ethyl	102		P	80 - 120
Parathion Methyl	92.5		P	80 - 120
Pendimethalin	113		P	80 - 120
Phenytoin	103		P	80 - 120
Phorate	98.3		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A119664
Included Lab Sample IDs: 2413425, 2413426

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Prodiamine	114		P	80 - 120
Prometon	99.2		P	80 - 120
Prometryn	95.2		P	80 - 120
Pronamide	102		P	80 - 120
Propanil	84.9		P	80 - 120
Propargite	94.2		P	80 - 120
Propiconazole	85.9		P	80 - 120
Pyraflufen Ethyl	104		P	80 - 120
Pyridaben	102		P	80 - 120
Pyriproxyfen	96.3		P	80 - 120
Simazine	87.5		P	80 - 120
Stirophos	88.1		P	80 - 120
Sulfentrazone	102		P	80 - 120
Tebuconazole	97.8		P	80 - 120
Terbufos	97.8		P	80 - 120
Terbuthylazine	87.6		P	80 - 120
Thiobencarb	95.9		P	80 - 120
Triadimefon	104		P	80 - 120

Reference Method: EPA 8270E
Run ID: A119680
Included Lab Sample IDs: 2413423, 2413424

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	112		P	80 - 120
Alpha-BHC	119		P	80 - 120
Alpha-Chlordane	108		P	80 - 120
Beta-BHC	116		P	80 - 120
Beta-Cyfluthrin	95.9		P	80 - 120
Bifenthrin	112		P	80 - 120
Chlorothalonil	100		P	80 - 120
Cis-Nonachlor	113		P	80 - 120
Cypermethrin	91.6		P	80 - 120
Dacthal	104		P	80 - 120
DDD-p,p'	115		P	80 - 120
DDE-p,p'	116		P	80 - 120
DDT-p,p'	124*		F	80 - 120
Delta-BHC	107		P	80 - 120
Deltamethrin	84.9		P	80 - 120
Dichlobenil	99.6		P	80 - 120
Dicofol	86.0		P	80 - 120
Dieldrin	111		P	80 - 120
Endosulfan I	108		P	80 - 120
Endosulfan II	119		P	80 - 120
Endosulfan Sulfate	84.9		P	80 - 120
Endrin	90.9		P	80 - 120
Endrin Aldehyde	93.0		P	80 - 120
Endrin Ketone	80.5		P	80 - 120
Esfenvalerate	118		P	80 - 120
Ethalfluralin	107		P	80 - 120
Fenpropathrin	95.8		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A119680
Included Lab Sample IDs: 2413423, 2413424

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Gamma-BHC	117		P	80 - 120
Gamma-Chlordane	94.3		P	80 - 120
Heptachlor	119		P	80 - 120
Heptachlor Epoxide	116		P	80 - 120
Hexachlorobenzene	99.2		P	80 - 120
Kepone	83.8		P	80 - 120
Lambda-Cyhalothrin	116		P	80 - 120
Methoprene	101		P	80 - 120
Methoxychlor	112		P	80 - 120
MGK-264	81.7		P	80 - 120
Mirex	97.7		P	80 - 120
Oxychlordane	89.3		P	80 - 120
Permethrin	102		P	80 - 120
Phenothrin	115		P	80 - 120
Piperonyl Butoxide	91.0		P	80 - 120
Prallethrin	109		P	80 - 120
Tau-Fluvalinate	92.2		P	80 - 120
Tetramethrin	89.7		P	80 - 120
Trans-Nonachlor	115		P	80 - 120
Triclosan Methyl	104		P	80 - 120
Trifluralin	102		P	80 - 120

Reference Method: EPA 8270E
Run ID: A119685
Included Lab Sample IDs: 2413424

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

Reference Method: EPA 8270E
Run ID: A119694
Included Lab Sample IDs: 2413423

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	96.3		P	80 - 120
PCB-1260	103		P	80 - 120

Reference Method: EPA 8276
Run ID: A119784
Included Lab Sample IDs: 2413423

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	99.6		P	80 - 120
Toxaphene	98.7		P	80 - 120

Reference Method: EPA 8276
Run ID: A119787
Included Lab Sample IDs: 2413424

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	102		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8276
Run ID: A119787
Included Lab Sample IDs: 2413424

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Toxaphene	103		P	80 - 120

Reference Method: EPA 8270E
Run ID: A119794
Included Lab Sample IDs: 2413424

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	100		P	80 - 120
PCB-1260	98.6		P	80 - 120

Reference Method: SM 4500-F- C-2011
Run ID: A119876
Included Lab Sample IDs: 2413402, 2413405, 2413406, 2413409

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

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

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
DEP SOP: NU-094-1	Color (true)	99.3				1.41	
	Color (true)	99.9				4.58	
EPA 180.1 Rev. 2.0	Turbidity	99.4				3.54	
EPA 300.0 Rev. 2.1	Chloride	98.3	103	103		1.99	
	Sulfate	97.0	96.9	98.5		2.95	
EPA 350.1 Rev. 2.0	Ammonia-N	98.4	99.4	101			0.981
	Ammonia-N	99.6	99.8	101			1.09
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	109	107	102			3.09
EPA 353.2 Rev. 2.0	NO2NO3-N	104	104	104			0.0
EPA 365.1 Rev. 2.0	Total-P	101	103	103			0.536
	Total-P	100	103	103			0.439
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101	102	102			0.685
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	107	121	131			8.23
	Acetochlor	92.7	85.0	95.1			11.3
	Alachlor	90.6	93.2	96.1			3.01
	Aldrin	51.0	45.7	51.7			12.2
	Alpha-BHC	97.0	91.4	83.8			8.62
	Alpha-Chlordane	55.0	56.2	71.7			24.2
	Ametryn	96.3	132	156			16.9
	Atrazine	88.4					6.79
	Atrazine Desethyl	83.4					1.67
	Avobenzone	135	169	179			5.80
	Azinphos Methyl	95.9	102	102			0.615
	Azoxystrobin	106					1.20
	Beta-BHC	132	84.7	82.0			3.21
	Beta-Cyfluthrin	86.0	91.7	73.9			21.5
	Bifenthrin	39.6	66.9	50.2			28.6
	Bromacil	86.8	89.5	100			11.0
	Butylate	69.3	67.4	70.4			4.46
	Caffeine	84.4	93.0	95.4			2.57
	Carbophenothion	121	126	124			1.65
	Carfentrazone Ethyl	127	126	125			1.16
	Chlorfenapyr	99.4	93.6	93.3			0.401
	Chlorothalonil	94.2	101	83.2			19.7
	Chlorpyrifos Ethyl	76.2	83.1	86.2			3.71
	Chlorpyrifos Methyl	116	120	124			3.85
	Cis-Nonachlor	73.5	59.3	70.5			17.2
	Coumaphos	79.9	115	125			8.23
	Cyanazine	133	139	160			13.9
	Cypermethrin	88.1	91.2	79.7			13.4
	Cyprodinil	94.3	106	108			1.44
	Dacthal	108	73.3	82.8			12.2
	DDD-p,p'	76.9	53.9	53.1			1.53
	DDE-p,p'	63.5	64.3	67.0			4.16
	DDT-p,p'	67.1	64.3	66.6			3.52
	Dechlorane 602	87.6	79.9	98.6			20.9
	Dechlorane 603	129	131	122			7.30
	Dechlorane Plus	109	85.2	89.2			4.61
	Delta-BHC	116	107	78.5			30.6
	Deltamethrin	123	177	139			24.1
	Demeton	81.0	79.6	84.0			5.39
	Diazinon	111	121	134			10.3

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Dichlobenil	105	56.3	58.2			3.38
	Dicofol	53.5	52.6	60.8			14.5
	Dieldrin	68.7	67.5	76.5			12.5
	Difenoconazole	91.0	145	150			3.45
	Dimethenamid	103	109	122			7.36
	Dimethomorph	140	169	147			14.0
	Disulfoton	106	100	114			13.2
	Dithiopyr	120	136	127			6.78
	Endosulfan I	67.7	54.1	60.8			11.6
	Endosulfan II	82.2	77.7	87.6			12.1
	Endosulfan Sulfate	59.5	63.9	75.8			17.1
	Endrin	105	71.9	99.8			32.5
	Endrin Aldehyde	96.1	78.2	106			29.9
	Endrin Ketone	76.3	79.1	112			34.3
	EPTC	63.9	58.2	59.9			2.93
	Esfenvalerate	76.0	119	96.1			21.4
	Ethalfluralin	69.7	68.5	80.5			16.1
	Ethion	102	130	137			5.52
	Ethoprop	97.5	99.1	107			8.12
	Etridiazole	67.9	71.0	71.1			0.143
	Fenamiphos	88.8	91.3	88.0			3.61
	Fenbuconazole	60.7	88.6	88.7			0.108
	Fenpropathrin	84.7	84.5	61.3			31.8
	Fipronil	112	146	142			2.06
	Fipronil Desulfinyl	109					11.3
	Fipronil Sulfide	110					0.965
	Fipronil Sulfone	110					1.22
	Fluazifop-P-butyl	79.6	79.2	76.5			3.52
	Fludioxonil	95.5					2.90
	Flumioxazin	95.5	169	178			5.27
	Flutolanil	84.5	64.3	65.5			1.32
	Fluxapyroxad	106	104	131			13.6
	Fonofos	119	123	136			10.3
	Gamma-BHC	117	83.4	84.6			1.40
	Gamma-Chlordane	87.2	49.3	68.9			33.2
	Heptachlor	57.2	55.2	66.8			19.0
	Heptachlor Epoxide	64.5	55.2	82.2			39.3
	Hexabromobenzene	137	150	149			0.693
	Hexachlorobenzene	39.6	39.2	49.6			23.2
	Hexazinone	93.5	113	114			0.539
	Imazalil	58.9	93.2	87.6			6.16
	Iprodione	90.8	88.0	95.0			7.59
	Kepone	46.5	63.2	71.6			12.5
	Lambda-Cyhalothrin	80.6	108	97.0			10.3
	Loratadine	119	182	184			1.36
	Malathion	87.0	82.6	93.6			12.5
	Metalaxyl	87.9					6.85
	Methoprene	64.6	54.1	63.3			15.6
	Methoxychlor	84.7	88.7	86.5			2.49
	Metolachlor	103					1.57
	Metribuzin	85.9					10.2
	Mevinphos	94.5	98.5	106			7.15
	MGK-264	87.8	63.1	83.1			27.3
	Mirex	62.9	61.5	69.4			12.1

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Molinate	66.0	65.9	66.4			0.681
	Myclobutanil	96.0	106	110			3.82
	Naled	41.6	49.5	49.0			1.01
	Napropamide	97.3	93.2	93.8			0.677
	Norflurazon	110	100	97.8			2.27
	Octinoxate	126	131	133			1.24
	Oxadiazon	80.4					2.25
	Oxybenzone	127	138	142			2.41
	Oxychlordane	59.6	49.9	66.0			27.7
	Oxyfluorfen	130	137	132			4.22
	Parathion Ethyl	96.8	109	102			6.18
	Parathion Methyl	95.4	86.0	99.2			14.2
	PBB-153	128	148	151			1.94
	PBDE-47	110	111	125			11.7
	PBDE-99	96.9	102	114			10.8
	PCB-1016	68.8	57.4	58.2			1.26
	PCB-1260	63.0	62.9	50.6			17.9
	Pendimethalin	109	102	106			4.01
	Pentabromotoluene	121	133	137			2.32
	Permethrin	87.0	85.3	80.1			6.29
	Phenothrin	93.5	74.2	83.7			12.0
	Phenytoin	39.7	51.8	61.9			17.7
	Phorate	104	126	137			7.98
	Piperonyl Butoxide	132	139	162			14.9
	Prallethrin	60.8	58.6	62.6			6.56
	Prodiamine	75.8	79.6	92.0			14.5
	Prometon	105	102	110			7.02
	Prometryn	116	119	115			3.52
	Pronamide	102	106	116			8.20
	Propanil	86.6	87.2	90.9			4.13
	Propargite	62.5	63.2	60.2			4.78
	Propiconazole	90.6	109	106			3.37
	Pyraflufen Ethyl	70.9	72.0	67.0			7.21
	Pyridaben	81.8	128	112			12.8
	Pyriproxyfen	80.5	89.1	95.1			6.54
	Simazine	85.5					3.39
	Stirophos	82.7	80.3	85.8			6.73
	Sulfentrazone	65.8					0.197
	Tau-Fluvalinate	88.0	127	117			8.23
	Tebuconazole	56.2	49.7	60.0			18.7
	Terbufos	110	115	129			11.9
	Terbuthylazine	86.5					12.9
	Tetradecachloro-m-terphenyl	190	212	196			7.70
	Tetramethrin	118	118	122			3.53
	Thiobencarb	89.8	85.0	95.2			11.3
	Trans-Nonachlor	48.8	50.1	84.7			51.3
	Tri-o-cresyl Phosphate	124	129	129			0.616
	Triadimefon	96.6	90.5	112			20.9
	Triclosan Methyl	54.6	50.2	56.7			12.1
	Trifluralin	60.5	53.9	62.1			14.0
	Tris(1-chloro-2-propyl) phosphate (TCPP)	112	93.4	110			15.8
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	113	119	123			3.39

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Tris(2-chloroethyl) phosphate (TCEP)	117	126	132			4.69
EPA 8276	Chlordane	75.8	85.4	77.2			10.0
	Toxaphene	76.2	92.1	79.7			14.5
EPA 8321B	2,4-D	93.9	104	120			13.8
	2,4-D	113	97.5	95.5			1.64
	2,4,5-T	82.5	98.1	105			6.35
	2,4,5-T	73.2	84.5	89.9			6.22
	3-Hydroxycarbofuran	79.8	86.9	86.3			0.771
	Acesulfame K	113	116	117			0.959
	Acetaminophen	88.2	89.4	106			16.6
	Acetaminophen	86.4	93.7	86.9			7.51
	Acetamiprid	75.0	76.4	84.0			9.53
	Acetamiprid	68.2	44.4	55.8			22.9
	Afidopyropen	69.9	71.5	80.7			12.0
	Afidopyropen	63.8	52.6	69.4			27.5
	Aldicarb	60.4	57.9	63.4			9.16
	Aldicarb Sulfone	94.9	84.6	84.4			0.163
	Aldicarb Sulfoxide	102	35.8	37.4			4.30
	AMPA	110	94.5	92.1			2.55
	Bentazon	115	97.2	88.9			8.84
	Bentazon	118	79.6	84.6			6.10
	Benzovindiflupyr	72.1	80.1	87.8			9.23
	Benzovindiflupyr	81.4	84.4	76.5			9.79
	Carbamazepine	85.5	86.3	94.2			8.74
	Carbamazepine	86.4	73.1	72.2			1.29
	Carbaryl	70.4	74.1	65.1			13.0
	Carbofuran	76.6	57.1	58.5			2.37
	Clothianidin	82.3	96.5	114			16.3
	Clothianidin	83.1	83.3	80.7			3.17
	Dinotefuran	91.1	97.5	109			11.5
	Dinotefuran	95.4	69.7	65.7			5.89
	Diuron	97.9	91.8	98.5			7.05
	Diuron	104	88.4	82.3			7.14
	Endothall	93.5	94.8	91.2			3.87
	Fenuron	80.8	74.7	79.4			6.07
	Fenuron	79.7	55.3	55.4			0.0396
	Fluridone	89.9	80.4	86.8			7.60
	Fluridone	90.6	82.7	74.3			10.6
	Glufosinate	96.2	82.2	85.9			4.44
	Glyphosate	89.6	81.1	86.0			5.86
	Hydrocodone	86.0	90.7	94.2			3.76
	Hydrocodone	83.2	65.4	63.9			2.28
	Ibuprofen	108	102	95.2			6.50
	Ibuprofen	89.6	47.6	57.7			19.2
	Imazapyr	91.0	101	112			10.5
	Imazapyr	102	95.3	91.0			4.53
	Imidacloprid	76.8	110	131			17.4
	Imidacloprid	78.1	109	103			4.91
	Linuron	83.0	79.5	84.8			6.46
	Linuron	80.8	77.2	78.7			1.94
	Mandestrobin	81.0	85.0	90.3			6.09
	Mandestrobin	86.1	80.8	83.2			2.91
	MCPP	84.9	101	118			15.5

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	MCPP	88.1	82.9	82.4			0.530
	Methiocarb	79.1	69.2	67.5			2.51
	Methomyl	73.8	59.7	59.4			0.464
	Naproxen	63.4	56.7	46.3			20.1
	Naproxen	45.1	54.3	42.9			23.4
	Oxamyl	87.3	72.5	72.9			0.499
	Primidone	78.1	88.3	93.3			5.47
	Primidone	85.8	84.3	76.6			9.63
	Propoxur	73.5	56.3	57.1			1.30
	Pyraclostrobin	69.9	81.2	85.5			5.15
	Pyraclostrobin	69.0	79.6	79.0			0.862
	Silvex	84.4	85.4	93.1			8.64
	Silvex	83.2	73.4	77.5			5.37
	Sucralose	104	126	104			18.3
	Thiamethoxam	80.2	101	117			15.1
	Thiamethoxam	77.2	72.7	73.5			1.22
	Tolfenpyrad	43.9	48.4	56.4			15.4
	Tolfenpyrad	48.2	54.1	46.5			15.2
	Triclopyr	77.8	84.9	108			23.5
	Triclopyr	73.1	79.4	76.5			3.78
SM 2320 B-2011	Total Alkalinity	97.0				2.71	
	Total Alkalinity	96.1				0.348	
SM 2540 C-2015	TDS	96.3				4.68	
SM 2540 D-2015	TSS	95.3					
SM 4500-F- C-2011	Fluoride	97.8	99.1	97.5			1.55
	Fluoride	98.3	103	103			0.503
SM 5310 B-2011	Organic Carbon	95.2	94.4	98.2			2.53

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2413402, 2413405, 2413406, 2413409
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2413402, 2413405, 2413406, 2413409
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2413402, 2413405, 2413406, 2413409
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2413402, 2413405, 2413406, 2413409
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2413403, 2413407, 2413408, 2413410
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2413403, 2413407, 2413408, 2413410
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2413403, 2413407, 2413408, 2413410
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2413403, 2413407, 2413408, 2413410
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2413404
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2413425, 2413426
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2413423, 2413424
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2413425, 2413426
EPA 8270E	PCBs in water matrices by GC/MS/MS	2413423, 2413424
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2413423, 2413424
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2413419, 2413420
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2413421, 2413422
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2413402, 2413405, 2413406, 2413409
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2413402, 2413405, 2413406, 2413409
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2413402, 2413405, 2413406, 2413409
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2413402, 2413405, 2413406, 2413409

Reference Method Descriptions

Method	Description	Associated Samples
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2413403, 2413407, 2413408, 2413410

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	05/31/2023			05/31/2023 13:36	Alexis Price	2413402
	05/31/2023			05/31/2023 13:38	Alexis Price	2413409
	05/31/2023			05/31/2023 13:41	Alexis Price	2413406
	05/31/2023			05/31/2023 13:54	Alexis Price	2413405
EPA 180.1 Rev. 2.0	05/31/2023			05/31/2023 13:36	Anna M. Plaviak	2413402
	05/31/2023			05/31/2023 13:37	Anna M. Plaviak	2413405
	05/31/2023			05/31/2023 13:39	Anna M. Plaviak	2413406
	05/31/2023			05/31/2023 13:40	Anna M. Plaviak	2413409
EPA 300.0 Rev. 2.1	05/31/2023			06/07/2023 11:50	James L Waggerby	2413402
	05/31/2023			06/07/2023 13:06	James L Waggerby	2413405
	05/31/2023			06/07/2023 13:21	James L Waggerby	2413406
	05/31/2023			06/07/2023 13:36	James L Waggerby	2413409
EPA 350.1 Rev. 2.0	05/31/2023			06/05/2023 11:40	Khloe J Berg	2413403
	05/31/2023			06/05/2023 11:42	Khloe J Berg	2413407
	05/31/2023			06/05/2023 12:24	Khloe J Berg	2413408
	05/31/2023			06/05/2023 12:26	Khloe J Berg	2413410
EPA 351.2 Rev. 2.0	05/31/2023	06/05/2023 10:57	Simonne.V. Calhoun	06/06/2023 10:13	Samantha L Bates	2413403
	05/31/2023	06/05/2023 10:57	Simonne.V. Calhoun	06/06/2023 10:15	Samantha L Bates	2413407
	05/31/2023	06/05/2023 10:57	Simonne.V. Calhoun	06/06/2023 10:16	Samantha L Bates	2413408
	05/31/2023	06/05/2023 10:57	Simonne.V. Calhoun	06/06/2023 10:18	Samantha L Bates	2413410
EPA 353.2 Rev. 2.0	05/31/2023			06/07/2023 09:34	Beverly Y. Sanders	2413403
	05/31/2023			06/07/2023 09:40	Beverly Y. Sanders	2413407
	05/31/2023			06/07/2023 09:41	Beverly Y. Sanders	2413408
	05/31/2023			06/07/2023 09:42	Beverly Y. Sanders	2413410
EPA 365.1 Rev. 2.0	05/31/2023	06/01/2023 11:40	Alexis Price	06/02/2023 13:29	Simonne.V. Calhoun	2413403
	05/31/2023	06/01/2023 11:40	Alexis Price	06/02/2023 13:30	Simonne.V. Calhoun	2413407
	05/31/2023	06/01/2023 11:40	Alexis Price	06/02/2023 14:10	Simonne.V. Calhoun	2413408
	05/31/2023	06/05/2023 14:34	Adam P Silver	06/07/2023 13:50	James L Waggerby	2413410
EPA 365.1 Rev. 2.0 dissolved	05/31/2023			05/31/2023 14:51	Elise M. Gillis	2413404
EPA 8270E	05/31/2023	06/01/2023 08:00	Fe-Val Siddell	06/04/2023 00:48	Arthur Maknenko	2413425
	05/31/2023	06/01/2023 08:00	Fe-Val Siddell	06/04/2023 01:14	Arthur Maknenko	2413426
	05/31/2023	06/01/2023 08:00	Fe-Val Siddell	06/04/2023 20:02	Vandana T. Nagar	2413425
	05/31/2023	06/01/2023 08:00	Fe-Val Siddell	06/04/2023 20:28	Vandana T. Nagar	2413426
	05/31/2023	06/05/2023 08:00	Fe-Val Siddell	06/07/2023 22:09	Michael Poppell	2413423
	05/31/2023	06/05/2023 08:00	Fe-Val Siddell	06/07/2023 22:42	Michael Poppell	2413424
	05/31/2023	06/05/2023 08:00	Fe-Val Siddell	06/08/2023 00:57	Julie Wi	2413423
	05/31/2023	06/05/2023 08:00	Fe-Val Siddell	06/08/2023 23:08	Michael Poppell	2413424
	05/31/2023	06/05/2023 08:00	Fe-Val Siddell	06/13/2023 23:07	Julie Wi	2413424
EPA 8276	05/31/2023	06/05/2023 08:00	Fe-Val Siddell	06/08/2023 05:29	Arthur Maknenko	2413424
	05/31/2023	06/05/2023 08:00	Fe-Val Siddell	06/13/2023 03:21	Arthur Maknenko	2413423

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	05/31/2023	06/01/2023 09:00	Hoor Shaik	06/06/2023 10:21	Juyoung Kim	2413421
	05/31/2023	06/02/2023 09:00	Hoor Shaik	06/06/2023 17:15	Juyoung Kim	2413422
	05/31/2023	06/05/2023 11:00	Touraj Touran	06/05/2023 17:08	Touraj Touran	2413421
	05/31/2023	06/05/2023 11:00	Touraj Touran	06/05/2023 17:21	Touraj Touran	2413422
	05/31/2023	06/05/2023 11:00	Touraj Touran	06/06/2023 03:46	Touraj Touran	2413421
	05/31/2023	06/05/2023 11:00	Touraj Touran	06/06/2023 04:00	Touraj Touran	2413422
	05/31/2023	06/06/2023 08:30	Hoor Shaik	06/07/2023 02:01	Juyoung Kim	2413419
	05/31/2023	06/06/2023 08:30	Hoor Shaik	06/07/2023 02:20	Juyoung Kim	2413420
SM 2320 B-2011	05/31/2023			06/03/2023 09:11	Dale L. Simmons	2413402
	05/31/2023			06/03/2023 09:21	Dale L. Simmons	2413405
	05/31/2023			06/03/2023 09:34	Dale L. Simmons	2413406
	05/31/2023			06/03/2023 12:35	Dale L. Simmons	2413409
SM 2540 C-2015	05/31/2023			06/02/2023 15:32	Yijie Li	2413402, 2413405, 2413406, 2413409
SM 2540 D-2015	05/31/2023			06/02/2023 15:32	Yijie Li	2413402, 2413405, 2413406, 2413409
SM 4500-F- C-2011	05/31/2023			06/16/2023 18:12	Adam P Silver	2413402
	05/31/2023			06/16/2023 19:08	Adam P Silver	2413405
	05/31/2023			06/16/2023 19:28	Adam P Silver	2413406
	05/31/2023			06/16/2023 19:33	Adam P Silver	2413409
SM 5310 B-2011	05/31/2023			06/02/2023 16:10	Elise M. Gillis	2413410
	05/31/2023			06/02/2023 19:45	Elise M. Gillis	2413403
	05/31/2023			06/02/2023 20:00	Elise M. Gillis	2413407
	05/31/2023			06/02/2023 20:17	Elise M. Gillis	2413408