Chemical Analysis Report

NW-DIST-2023-03-17-01

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

Event Description: **Holmes Run**
Request ID: **RQ-2023-03-13-29**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
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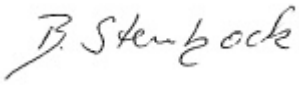
Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator Date Certified: 06-APR-2023 12:27



Case Narrative

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

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

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

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

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

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

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

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

Precision is reported as relative percent difference unless otherwise noted.

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

QC Codes used in this report may include:

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

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

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

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

Sample Location: Sikes Creek upstream of Harris Stevenson Rd. **Collection Date/Time: 03/16/2023 11:10**

Field ID: G3NW0450 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2394780	EPA 8270E	Aldrin	0.69	U	ng/L	P427285	
		Alpha-BHC	0.11	U	ng/L	P427285	
		Alpha-Chlordane	0.21	U	ng/L	P427285	MS
		PCB-1016	2.1	U	ng/L	P427285	
		Beta-BHC	0.11	U	ng/L	P427285	
		PCB-1221	2.1	U	ng/L	P427285	
		Beta-Cyfluthrin	1.3	U	ng/L	P427285	
		PCB-1232	2.1	U	ng/L	P427285	
		Bifenthrin	0.53	U	ng/L	P427285	
		PCB-1242	2.1	U	ng/L	P427285	
		Carbophenothion	0.96	U	ng/L	P427285	
		PCB-1248	2.1	U	ng/L	P427285	
		Chlorothalonil	3.8	U	ng/L	P427285	
		PCB-1254	2.1	U	ng/L	P427285	
		Cis-Nonachlor	0.21	U	ng/L	P427285	
		PCB-1260	2.1	U	ng/L	P427285	
		Cypermethrin	1.6	U	ng/L	P427285	
		Dacthal	0.16	U	ng/L	P427285	MS
		DDD-p,p'	0.27	U	ng/L	P427285	
		DDE-p,p'	0.21	U	ng/L	P427285	
		DDT-p,p'	0.27	U	ng/L	P427285	MS
		Delta-BHC	0.43	U	ng/L	P427285	
		Deltamethrin	1.3	U	ng/L	P427285	
		Dichlobenil	0.27	U	ng/L	P427285	
		Dicofol	1.3	U	ng/L	P427285	RPD
		Dieldrin	0.43	U	ng/L	P427285	
		Endosulfan I	0.43	U	ng/L	P427285	
		Endosulfan II	0.43	U	ng/L	P427285	
		Endosulfan Sulfate	0.32	U	ng/L	P427285	MS
		Endrin	0.43	U	ng/L	P427285	
		Endrin Aldehyde	0.80	U	ng/L	P427285	MS
		Endrin Ketone	0.43	U	ng/L	P427285	
		Esfenvalerate	0.80	U	ng/L	P427285	
		Ethalfluralin	0.16	U	ng/L	P427285	
		Fenpropathrin	0.27	U	ng/L	P427285	
		Gamma-BHC	0.13	U	ng/L	P427285	
		Gamma-Chlordane	0.21	U	ng/L	P427285	
		Heptachlor	0.21	U	ng/L	P427285	
		Heptachlor Epoxide	0.27	U	ng/L	P427285	
		Hexachlorobenzene**	1.1	U	ng/L	P427285	
		Kepone	5.3	U	ng/L	P427285	
		Lambda-Cyhalothrin	0.80	U	ng/L	P427285	
		Methoprene	0.80	U	ng/L	P427285	
		Methoxychlor	0.32	U	ng/L	P427285	

Field ID: G3NW0450 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2394780	EPA 8270E	MGK-264	0.21	U	ng/L	P427285	MS
		Mirex	0.37	U	ng/L	P427285	
		Oxychlordane	0.32	U	ng/L	P427285	
		Permethrin	1.7	U	ng/L	P427285	
		Phenothrin	0.96	U	ng/L	P427285	
		Piperonyl Butoxide	0.17	I	ng/L	P427285	
		Prallethrin	2.1	U	ng/L	P427285	
		Tau-Fluvalinate	0.27	U	ng/L	P427285	
		Tetramethrin	0.80	U	ng/L	P427285	
		Trans-Nonachlor	0.21	U	ng/L	P427285	
		Triclosan Methyl	0.16	U	ng/L	P427285	
		Trifluralin	0.21	U	ng/L	P427285	
	EPA 8276	Chlordane	2.1	U	ng/L	P427285	
		Toxaphene	16	U	ng/L	P427285	
2394783	EPA 200.7 Rev. 4.4	Calcium	9.28		mg/L	P427363	
		Iron	760		ug/L	P427363	
		Magnesium	0.92		mg/L	P427363	
		Potassium	0.47	I	mg/L	P427363	
		Sodium	2.2		mg/L	P427363	
		Strontium	10.8		ug/L	P427363	
		Tin	3.0	U	ug/L	P427363	
		Titanium	1.0	I	ug/L	P427363	
		Vanadium	2.0	U	ug/L	P427363	
		Zinc	5.0	U	ug/L	P427363	
	EPA 200.8 Rev. 5.4	Aluminum	213		ug/L	P427363	
		Antimony	0.050	U	ug/L	P427363	
		Arsenic	0.34		ug/L	P427363	
		Barium	11.3		ug/L	P427363	
		Beryllium	0.025	I	ug/L	P427363	
		Boron	9.6		ug/L	P427363	
		Cadmium	0.020	U	ug/L	P427363	
		Chromium	0.52	I	ug/L	P427363	
		Cobalt	0.223		ug/L	P427363	
		Copper	0.40	U	ug/L	P427363	
		Lead	0.38	I	ug/L	P427363	
		Manganese	33.3		ug/L	P427363	
		Molybdenum	0.15	U	ug/L	P427363	
		Nickel	0.50	U	ug/L	P427363	
		Selenium	0.20	U	ug/L	P427363	
		Silver	0.010	U	ug/L	P427363	
		Thallium	0.10	U	ug/L	P427363	
	SM 2340 B-2011	Hardness	26.9		mg/L	P427363	

Sample Location: Choctawhatchee River upstream Hwy 90 boat ramp **Collection Date/Time: 03/16/2023 11:45**

Field ID: G3NW0052 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2394739	DEP SOP: NU-094-1	Color (true)	27		PCU	P427310	
	EPA 180.1 Rev. 2.0	Turbidity	18		NTU	P427313	
	EPA 300.0 Rev. 2.1	Chloride	5.1		mg Cl/L	P427855	
		Sulfate	2.3		mg SO4/L	P427858	
	SM 2320 B-2011	Total Alkalinity	27		mg CaCO3/L	P427558	
	SM 2540 C-2015	TDS	76		mg/L	P427923	
	SM 2540 D-2015	TSS	20		mg/L	P427593	
	SM 4500-F- C-2011	Fluoride	0.042	I	mg F/L	P427560	
2394740	EPA 350.1 Rev. 2.0	Ammonia-N	0.019		mg N/L	P427568	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.39		mg N/L	P427737	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.41		mg N/L	P427470	
	EPA 365.1 Rev. 2.0	Total-P	0.050		mg P/L	P427371	
	SM 5310 B-2011	Organic Carbon	4.9		mg C/L	P427749	
2394768	EPA 8321B	Aldicarb	0.020	U	ug/L	P427297	
		Aldicarb Sulfone	0.0020	U	ug/L	P427297	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P427297	MS
		Carbaryl	0.0020	U	ug/L	P427297	
		Carbofuran	0.0020	U	ug/L	P427297	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P427297	
		Methiocarb	0.0020	U	ug/L	P427297	
		Methomyl	0.0020	U	ug/L	P427297	
		Oxamyl	0.0020	U	ug/L	P427297	
		Propoxur	0.0020	U	ug/L	P427297	MS
2394769		2,4-D	0.026		ug/L	P427453	
		Acesulfame K	0.10	U	ug/L	P427212	
		2,4,5-T	0.0040	U	ug/L	P427453	
		AMPA	0.10	U	ug/L	P427212	
		Acetaminophen	0.0080	U	ug/L	P427453	
		Acetamiprid	0.0020	U	ug/L	P427453	
		Endothall	0.25	U	ug/L	P427212	
		Glufosinate	0.10	U	ug/L	P427212	
		Glyphosate	0.10	U	ug/L	P427212	
		Afidopyropen	0.0020	U	ug/L	P427453	
		Bentazon	0.0014	I	ug/L	P427453	
		Sucralose	0.42		ug/L	P427212	
		Benzovindiflupyr	0.0020	U	ug/L	P427453	
		Carbamazepine	8.0E-04	U	ug/L	P427453	
		Clothianidin	0.0020	U	ug/L	P427453	
		Dinotefuran	0.0020	U	ug/L	P427453	
		Diuron	0.0020	U	ug/L	P427453	
		Fenuron	0.032	U	ug/L	P427453	
		Fluridone	8.0E-04	U	ug/L	P427453	
		Imazapyr	0.017		ug/L	P427453	

Field ID: G3NW0052 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2394769	EPA 8321B	Hydrocodone	0.0020	U	ug/L	P427453	
		Ibuprofen	0.080	U	ug/L	P427453	
		Imidacloprid	0.0056	I	ug/L	P427453	
		Linuron	0.0040	U	ug/L	P427453	
		Mandestrobin	0.0020	U	ug/L	P427453	
		MCPP	0.0020	U	ug/L	P427453	
		Naproxen	0.0080	U	ug/L	P427453	
		Primidone	0.0040	U	ug/L	P427453	
		Pyraclostrobin	0.0020	U	ug/L	P427453	
		Silvex	0.0040	U	ug/L	P427453	
		Thiamethoxam	0.0020	U	ug/L	P427453	
		Tolfenpyrad	0.0020	U	ug/L	P427453	
		Triclopyr	0.0040	U	ug/L	P427453	
2394778	EPA 8270E	Aldrin	0.72	U	ng/L	P427285	
		Alpha-BHC	0.11	U	ng/L	P427285	
		Alpha-Chlordane	0.22	U	ng/L	P427285	MS
		PCB-1016	2.2	U	ng/L	P427285	
		Beta-BHC	0.11	U	ng/L	P427285	
		PCB-1221	2.2	U	ng/L	P427285	
		Beta-Cyfluthrin	1.4	U	ng/L	P427285	
		PCB-1232	2.2	U	ng/L	P427285	
		Bifenthrin	0.56	U	ng/L	P427285	
		PCB-1242	2.2	U	ng/L	P427285	
		PCB-1248	2.2	U	ng/L	P427285	
		Chlorothalonil	4.0	U	ng/L	P427285	
		PCB-1254	2.2	U	ng/L	P427285	
		Cis-Nonachlor	0.22	U	ng/L	P427285	
		PCB-1260	2.2	U	ng/L	P427285	
		Cypermethrin	1.7	U	ng/L	P427285	
		Dacthal	0.17	U	ng/L	P427285	MS
		DDD-p,p'	0.28	U	ng/L	P427285	
		DDE-p,p'	0.22	U	ng/L	P427285	
		DDT-p,p'	0.28	U	ng/L	P427285	MS
		Delta-BHC	0.45	U	ng/L	P427285	
		Deltamethrin	1.4	U	ng/L	P427285	
		Dichlobenil	0.28	U	ng/L	P427285	
		Dicofol	1.4	U	ng/L	P427285	RPD
		Dieldrin	0.45	U	ng/L	P427285	
		Endosulfan I	0.45	U	ng/L	P427285	
		Endosulfan II	0.45	U	ng/L	P427285	
		Endosulfan Sulfate	0.33	U	ng/L	P427285	MS
		Endrin	0.45	U	ng/L	P427285	
		Endrin Aldehyde	0.84	U	ng/L	P427285	MS
		Endrin Ketone	0.45	U	ng/L	P427285	
		Esfenvalerate	0.84	U	ng/L	P427285	

Field ID: G3NW0052 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2394778	EPA 8270E	Ethalfluralin	0.17	U	ng/L	P427285	
		Fenpropathrin	0.28	U	ng/L	P427285	
		Gamma-BHC	0.14	U	ng/L	P427285	
		Gamma-Chlordane	0.22	U	ng/L	P427285	
		Heptachlor	0.22	U	ng/L	P427285	
		Heptachlor Epoxide	0.28	U	ng/L	P427285	
		Hexachlorobenzene**	1.1	U	ng/L	P427285	
		Kepone	5.6	U	ng/L	P427285	
		Lambda-Cyhalothrin	0.84	U	ng/L	P427285	
		Methoprene	0.84	U	ng/L	P427285	
		Methoxychlor	0.33	U	ng/L	P427285	
		MGK-264	0.22	U	ng/L	P427285	MS
		Mirex	0.39	U	ng/L	P427285	
		Oxychlordane	0.33	U	ng/L	P427285	
		Permethrin	1.8	U	ng/L	P427285	
		Phenothrin	1.0	U	ng/L	P427285	
		Piperonyl Butoxide	0.23	I	ng/L	P427285	
		Prallethrin	2.2	U	ng/L	P427285	
		Tau-Fluvalinate	0.28	U	ng/L	P427285	
		Tetramethrin	0.84	U	ng/L	P427285	
		Trans-Nonachlor	0.22	U	ng/L	P427285	
		Triclosan Methyl	0.17	U	ng/L	P427285	
		Trifluralin	0.22	U	ng/L	P427285	
	EPA 8276	Chlordane	2.2	U	ng/L	P427285	
		Toxaphene	17	U	ng/L	P427285	
2394779	EPA 8270E	Oxybenzone**	11	U	ng/L	P427316	
		Acetochlor	0.21	U	ng/L	P427316	
		Octinoxate**	21	U	ng/L	P427316	
		Alachlor	0.43	U	ng/L	P427316	
		Avobenzone**	110	U	ng/L	P427316	
		Ametryn	1.2	U	ng/L	P427316	
		Atrazine	17		ng/L	P427316	MS
		PBDE-47**	4.3	U	ng/L	P427316	
		Atrazine Desethyl	2.1	I	ng/L	P427316	
		PBDE-99**	5.4	U	ng/L	P427316	
		Azinphos Methyl	3.2	U	ng/L	P427316	
		Tri-o-cresyl Phosphate**	6.4	U	ng/L	P427316	
		Azoxystrobin	0.43	U	ng/L	P427316	
		Bromacil	1.2	I	ng/L	P427316	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	13	U	ng/L	P427316	
		Butylate	0.21	U	ng/L	P427316	
		Dechlorane Plus**	32	U	ng/L	P427316	MS
		Caffeine**	36	I	ng/L	P427316	
		Dechlorane 602**	5.4	U	ng/L	P427316	

Field ID: G3NW0052 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2394779	EPA 8270E	Carbophenothion	0.54	U	ng/L	P427316	
		Dechlorane 603**	4.3	U	ng/L	P427316	
		Carfentrazone Ethyl	0.16	U	ng/L	P427316	
		Hexabromobenzene**	6.4	U	ng/L	P427316	
		Chlorfenapyr	0.32	U	ng/L	P427316	MS
		PBB-153**	8.6	U	ng/L	P427316	
		Chlorpyrifos Ethyl	0.32	U	ng/L	P427316	
		Pentabromotoluene**	3.2	U	ng/L	P427316	
		Chlorpyrifos Methyl	0.11	U	ng/L	P427316	MS
		Tris(2-chloroethyl) phosphate (TCEP)**	75	U	ng/L	P427316	
		Coumaphos	1.1	U	ng/L	P427316	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	16	U	ng/L	P427316	
		Cyanazine	5.4	U	ng/L	P427316	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.9	I	ng/L	P427316	
		Cyprodinil	0.21	U	ng/L	P427316	
		Tetradecachloro-m-terphenyl**	8.0	U	ng/L	P427316	MS
		Demeton	3.7	U	ng/L	P427316	
		Diazinon	0.13	U	ng/L	P427316	
		Difenoconazole	0.64	U	ng/L	P427316	
		Dimethenamid	0.11	U	ng/L	P427316	
		Dimethomorph	0.32	U	ng/L	P427316	
		Disulfoton	0.64	U	ng/L	P427316	
		Dithiopyr	1.1	U	ng/L	P427316	
		EPTC	0.54	U	ng/L	P427316	
		Ethion	0.32	U	ng/L	P427316	
		Ethoprop	0.13	UJ	ng/L	P427316	LCS, MS
		Etridiazole	0.11	U	ng/L	P427316	
		Fenamiphos	0.48	U	ng/L	P427316	
		Fenbuconazole	0.54	U	ng/L	P427316	
		Fipronil	0.46	I	ng/L	P427316	
		Fipronil Desulfinyl**	0.11	I	ng/L	P427316	MS
		Fipronil Sulfide	0.13	I	ng/L	P427316	
		Fipronil Sulfone	0.19	I	ng/L	P427316	
		Fluazifop-P-butyl	0.11	U	ng/L	P427316	
		Fludioxonil	0.11	U	ng/L	P427316	
		Flumioxazin	3.2	U	ng/L	P427316	
		Flutolanil	0.31	I	ng/L	P427316	
		Fluxapyroxad	0.27	U	ng/L	P427316	
		Fonofos	0.16	U	ng/L	P427316	
		Hexazinone	0.54	U	ng/L	P427316	
		Imazalil	0.70	U	ng/L	P427316	
		Iprodione	0.54	U	ng/L	P427316	
		Loratadine**	0.32	U	ng/L	P427316	
		Malathion	0.37	U	ng/L	P427316	

Field ID: G3NW0052 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2394779	EPA 8270E	Metalaxyl	0.54	U	ng/L	P427316	
		Metolachlor	2.7	I	ng/L	P427316	
		Metribuzin	0.43	U	ng/L	P427316	
		Mevinphos	1.1	U	ng/L	P427316	
		Molinate	0.27	U	ng/L	P427316	
		Myclobutanil	0.37	U	ng/L	P427316	
		Naled	2.7	U	ng/L	P427316	
		Napropamide	0.75	U	ng/L	P427316	
		Norflurazon	1.1	U	ng/L	P427316	
		Oxadiazon	0.37	U	ng/L	P427316	
		Oxyfluorfen	0.21	U	ng/L	P427316	
		Parathion Ethyl	0.16	U	ng/L	P427316	MS
		Parathion Methyl	0.21	U	ng/L	P427316	
		Pendimethalin	0.80	U	ng/L	P427316	
		Phenytoin**	5.7	U	ng/L	P427316	
		Phorate	0.27	U	ng/L	P427316	
		Prodiamine	0.21	U	ng/L	P427316	
		Prometon	5.3	I	ng/L	P427316	
		Prometryn	0.37	U	ng/L	P427316	
		Pronamide	0.11	U	ng/L	P427316	
		Propanil	0.11	U	ng/L	P427316	
		Propargite	0.86	U	ng/L	P427316	
		Propiconazole	0.64	U	ng/L	P427316	
		Pyraflufen Ethyl	0.32	U	ng/L	P427316	
		Pyridaben	1.5	U	ng/L	P427316	
		Pyriproxyfen	0.27	U	ng/L	P427316	MS
		Simazine	19		ng/L	P427316	
		Stirophos	0.43	U	ng/L	P427316	
		Sulfentrazone	1.6	I	ng/L	P427316	
		Tebuconazole	1.5	U	ng/L	P427316	
		Terbufos	0.21	U	ng/L	P427316	
		Terbuthylazine	0.21	U	ng/L	P427316	
		Thiobencarb	0.54	U	ng/L	P427316	
		Triadimefon	0.16	U	ng/L	P427316	
2394781	EPA 200.7 Rev. 4.4	Calcium	10.7		mg/L	P427363	
		Iron	2.29E+03		ug/L	P427363	
		Magnesium	1.89		mg/L	P427363	
		Potassium	1.3		mg/L	P427363	
		Sodium	3.6		mg/L	P427363	
		Strontium	29.5		ug/L	P427363	
		Tin	3.0	U	ug/L	P427363	
		Titanium	5.5		ug/L	P427363	
		Vanadium	2.1	I	ug/L	P427363	
		Zinc	5.0	U	ug/L	P427363	
	EPA 200.8 Rev. 5.4	Aluminum	636		ug/L	P427363	

Field ID: G3NW0052 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2394781	EPA 200.8 Rev. 5.4	Antimony	0.054	I	ug/L	P427363	
		Arsenic	0.87		ug/L	P427363	
		Barium	24.0		ug/L	P427363	
		Beryllium	0.051		ug/L	P427363	
		Boron	12.5		ug/L	P427363	
		Cadmium	0.020	U	ug/L	P427363	
		Chromium	1.5	I	ug/L	P427363	
		Cobalt	0.470		ug/L	P427363	
		Copper	0.64	I	ug/L	P427363	
		Lead	0.62		ug/L	P427363	
		Manganese	85.4		ug/L	P427363	
		Molybdenum	0.15	U	ug/L	P427363	
		Nickel	0.63	I	ug/L	P427363	
		Selenium	0.20	U	ug/L	P427363	
		Silver	0.010	U	ug/L	P427363	
		Thallium	0.10	U	ug/L	P427363	
	SM 2340 B-2011	Hardness	34.5		mg/L	P427363	

Ref. Method and Comment:
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Huckleberry Creek **Collection Date/Time: 03/16/2023 12:55**

Field ID: G3NW0135 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2394770	EPA 8321B	2,4-D	0.0071	I	ug/L	P427453	
		Acesulfame K	0.10	U	ug/L	P427212	
		2,4,5-T	0.0040	U	ug/L	P427453	
		AMPA	0.10	U	ug/L	P427212	
		Acetaminophen	0.0080	U	ug/L	P427453	
		Acetamiprid	0.0020	U	ug/L	P427453	
		Endothall	0.25	U	ug/L	P427212	
		Glufosinate	0.10	U	ug/L	P427212	
		Glyphosate	0.10	U	ug/L	P427212	
		Afidopyropen	0.0020	U	ug/L	P427453	
		Bentazon	8.0E-04	U	ug/L	P427453	
		Sucralose	0.18		ug/L	P427212	
		Benzovindiflupyr	0.0020	U	ug/L	P427453	
		Carbamazepine	8.0E-04	U	ug/L	P427453	
		Clothianidin	0.0020	U	ug/L	P427453	
		Dinotefuran	0.0020	U	ug/L	P427453	
		Diuron	0.0020	U	ug/L	P427453	
		Fenuron	0.032	U	ug/L	P427453	
		Fluridone	8.0E-04	U	ug/L	P427453	
		Imazapyr	0.014	I	ug/L	P427453	
		Hydrocodone	0.0020	U	ug/L	P427453	
		Ibuprofen	0.080	U	ug/L	P427453	
		Imidacloprid	0.0020	U	ug/L	P427453	
		Linuron	0.0040	U	ug/L	P427453	
		Mandestrobin	0.0020	U	ug/L	P427453	
		MCPP	0.0020	U	ug/L	P427453	
		Naproxen	0.0080	U	ug/L	P427453	
		Primidone	0.0040	U	ug/L	P427453	
		Pyraclostrobin	0.0020	U	ug/L	P427453	
		Silvex	0.0040	U	ug/L	P427453	
		Thiamethoxam	0.0020	U	ug/L	P427453	
		Tolfenpyrad	0.0020	U	ug/L	P427453	
		Triclopyr	0.0040	U	ug/L	P427453	
2394782	EPA 200.7 Rev. 4.4	Calcium	2.06		mg/L	P427363	
		Iron	740		ug/L	P427363	
		Magnesium	0.94		mg/L	P427363	
		Potassium	0.83	I	mg/L	P427363	
		Sodium	2.2		mg/L	P427363	
		Strontium	7.1	I	ug/L	P427363	
		Tin	3.0	U	ug/L	P427363	
		Titanium	0.75	U	ug/L	P427363	
		Vanadium	2.0	U	ug/L	P427363	
		Zinc	5.0	U	ug/L	P427363	
	EPA 200.8 Rev. 5.4	Aluminum	156		ug/L	P427363	

Field ID: G3NW0135 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2394782	EPA 200.8 Rev. 5.4	Antimony	0.050	U	ug/L	P427363	
		Arsenic	0.35		ug/L	P427363	
		Barium	11.1		ug/L	P427363	
		Beryllium	0.012	I	ug/L	P427363	
		Boron	8.3		ug/L	P427363	
		Cadmium	0.020	U	ug/L	P427363	
		Chromium	0.40	U	ug/L	P427363	
		Cobalt	0.085		ug/L	P427363	
		Copper	0.40	U	ug/L	P427363	
		Lead	0.20	U	ug/L	P427363	
		Manganese	16.2		ug/L	P427363	
		Molybdenum	0.15	U	ug/L	P427363	
		Nickel	0.50	U	ug/L	P427363	
		Selenium	0.20	U	ug/L	P427363	
		Silver	0.010	U	ug/L	P427363	
		Thallium	0.10	U	ug/L	P427363	
	SM 2340 B-2011	Hardness	9.0		mg/L	P427363	

Sample Location: Anderson Mill Creek **Collection Date/Time: 03/16/2023 12:35**

Field ID: G3NW0224 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2394741	DEP SOP: NU-094-1	Color (true)	60	A	PCU	P427309	
	EPA 180.1 Rev. 2.0	Turbidity	1.7		NTU	P427313	
	EPA 300.0 Rev. 2.1	Chloride	3.7		mg Cl/L	P427855	
		Sulfate	0.55		mg SO4/L	P427858	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P427558	
	SM 2540 C-2015	TDS	32		mg/L	P427923	
	SM 2540 D-2015	TSS	2	I	mg/L	P427593	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P427560	
2394742	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P427570	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.23		mg N/L	P427737	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.023		mg N/L	P427470	
	EPA 365.1 Rev. 2.0	Total-P	0.008		mg P/L	P427371	
	SM 5310 B-2011	Organic Carbon	6.4		mg C/L	P427749	

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P427309

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P427310

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P427313

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P427363

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Titanium	0.75	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P427363

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427855

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427858

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427568

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427570

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427737

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427470

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427371

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

Reference Method: EPA 8270E
Batch ID: P427285

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P427285

Component	Result	Code	Units
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Carbophenothion	0.90	U	ng/L
Carbophenothion	0.90	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
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P427285

Component	Result	Code	Units
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
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P427316

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
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P427316

Component	Result	Code	Units
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
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P427316

Component	Result	Code	Units
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
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P427316

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

Reference Method: EPA 8276
Batch ID: P427285

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: P427212

Component	Result	Code	Units

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P427212

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: P427297

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

Reference Method: EPA 8321B
Batch ID: P427453

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P427453

Component	Result	Code	Units
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P427558

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

Reference Method: SM 2540 C-2015
Batch ID: P427923

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P427593

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P427560

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P427749

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: P427309

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

Reference Method: DEP SOP: NU-094-1
Batch ID: P427310

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.6		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P427313

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P427363

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	106		P	85 - 115
Iron	107		P	85 - 115
Magnesium	105		P	85 - 115
Potassium	104		P	85 - 115
Sodium	101		P	85 - 115
Strontium	103		P	85 - 115
Tin	108		P	85 - 115
Titanium	105		P	85 - 115
Vanadium	104		P	85 - 115
Zinc	106		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P427363

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	99.2		P	85 - 115
Antimony	96.5		P	85 - 115
Arsenic	101		P	85 - 115
Barium	100		P	85 - 115
Beryllium	98.6		P	85 - 115
Boron	96.5		P	85 - 115
Cadmium	98.3		P	85 - 115
Chromium	100		P	85 - 115
Cobalt	97.7		P	85 - 115
Copper	101		P	85 - 115
Lead	93.1		P	85 - 115
Manganese	98.8		P	85 - 115
Molybdenum	97.9		P	85 - 115
Nickel	102		P	85 - 115
Selenium	97.9		P	85 - 115
Silver	95.3		P	85 - 115
Thallium	97.5		P	85 - 115

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427855

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	99.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427858

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427568

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427570

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427737

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427470

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	98.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427371

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	99.9		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P427285

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	55.3		P	10 - 92.0
Alpha-BHC	81.5		P	75 - 107
Alpha-Chlordane	87.1		P	50 - 108
Beta-BHC	102		P	36 - 138
Beta-Cyfluthrin	98.8		P	20 - 161
Bifenthrin	58.0		P	10 - 119
Carbophenothion	66.7		P	19 - 94.0
Chlorothalonil	92.4		P	26 - 186
Cis-Nonachlor	66.9		P	42 - 119
Cypermethrin	104		P	22 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P427285

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dacthal	95.7		P	72 - 119
DDD-p,p'	67.8		P	45 - 107
DDE-p,p'	67.8		P	48 - 106
DDT-p,p'	68.0		P	48 - 110
Delta-BHC	113		P	54 - 140
Deltamethrin	118		P	22 - 189
Dichlobenil	77.6		P	36 - 117
Dicofol	68.4		P	46 - 155
Dieldrin	71.3		P	54 - 110
Endosulfan I	75.7		P	59 - 105
Endosulfan II	72.3		P	51 - 118
Endosulfan Sulfate	93.2		P	57 - 121
Endrin	73.9		P	10 - 120
Endrin Aldehyde	80.1		P	34 - 118
Endrin Ketone	74.5		P	69 - 177
Esfenvalerate	110		P	23 - 168
Ethalfluralin	74.2		P	49 - 99.0
Fenpropathrin	80.9		P	34 - 117
Gamma-BHC	91.3		P	72 - 117
Gamma-Chlordane	68.0		P	43 - 106
Heptachlor	63.4		P	41 - 98.0
Heptachlor Epoxide	89.7		P	57 - 106
Hexachlorobenzene	69.3		P	36 - 99.0
Kepone	117		P	16 - 215
Lambda-Cyhalothrin	77.7		P	21 - 177
Methoprene	57.9		P	10 - 119
Methoxychlor	77.3		P	60 - 112
MGK-264	89.5		P	26 - 122
Mirex	49.7		P	10 - 169
Oxychlordane	71.7		P	43 - 105
PCB-1016	65.4		P	48 - 112
PCB-1260	70.5		P	44 - 118
Permethrin	92.1		P	24 - 148
Phenothrin	70.4		P	10 - 106
Piperonyl Butoxide	80.9		P	10 - 139
Prallethrin	68.9		P	17 - 109
Tau-Fluvalinate	91.7		P	13 - 131
Tetramethrin	100		P	10 - 132
Trans-Nonachlor	73.5		P	44 - 106
Triclosan Methyl	72.6		P	59 - 109
Trifluralin	74.3		P	44 - 101

Reference Method: EPA 8270E
Batch ID: P427316

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	118		P	42 - 162
Acetochlor	118		P	69 - 123
Alachlor	102		P	65 - 118
Ametryn	74.4		P	58 - 141
Atrazine	86.7		P	73 - 118
Atrazine Desethyl	86.1		P	32 - 125

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P427316

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Avobenzone	153		P	40 - 203
Azinphos Methyl	78.9		P	36 - 197
Azoxystrobin	88.9		P	58 - 226
Bromacil	107		P	48 - 120
Butylate	29.5		P	27 - 85.0
Caffeine	90.1		P	40 - 137
Carbophenothion	92.1		P	54 - 132
Carfentrazone Ethyl	115		P	60 - 142
Chlorfenapyr	59.4		P	53 - 117
Chlorpyrifos Ethyl	72.9		P	59 - 116
Chlorpyrifos Methyl	86.4		P	66 - 119
Coumaphos	130		P	11 - 234
Cyanazine	165		P	61 - 248
Cyprodinil	71.7		P	50 - 147
Dechlorane 602	111		P	50 - 150
Dechlorane 603	111		P	50 - 150
Dechlorane Plus	92.1		P	47 - 182
Demeton	45.2		P	30 - 138
Diazinon	126		P	67 - 126
Difenoconazole	71.1		P	38 - 205
Dimethenamid	107		P	57 - 111
Dimethomorph	97.8		P	16 - 212
Disulfoton	94.6		P	46 - 126
Dithiopyr	96.6		P	62 - 115
EPTC	30.6		P	28 - 80.0
Ethion	67.2		P	24 - 122
Ethoprop	143		F	62 - 113
Etridiazole	43.9		P	28 - 92.0
Fenamiphos	79.6		P	57 - 128
Fenbuconazole	86.7		P	52 - 155
Fipronil	93.5		P	63 - 130
Fipronil Desulfinyl	77.9		P	61 - 130
Fipronil Sulfide	74.2		P	56 - 117
Fipronil Sulfone	99.8		P	52 - 118
Fluazifop-P-butyl	98.2		P	61 - 128
Fludioxonil	125		P	59 - 129
Flumioxazin	183		P	30 - 250
Flutolanil	87.5		P	53 - 127
Fluxapyroxad	54.3		P	42 - 132
Fonofos	80.1		P	61 - 110
Hexabromobenzene	127		P	50 - 150
Hexazinone	99.5		P	46 - 139
Imazalil	72.1		P	40 - 139
Iprodione	75.8		P	40 - 146
Loratadine	53.7		P	10 - 224
Malathion	95.2		P	61 - 135
Metalaxyl	98.1		P	58 - 121
Metolachlor	103		P	64 - 118
Metribuzin	88.4		P	45 - 245
Mevinphos	104		P	49 - 118
Molinate	47.4		P	42 - 92.0
Myclobutanil	126		P	55 - 127

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P427316

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Naled	47.3		P	10 - 114
Napropamide	74.8		P	39 - 121
Norflurazon	99.0		P	55 - 129
Octinoxate	107		P	26 - 166
Oxadiazon	97.6		P	54 - 115
Oxybenzone	121		P	49 - 135
Oxyfluorfen	95.6		P	64 - 139
Parathion Ethyl	96.8		P	70 - 111
Parathion Methyl	109		P	76 - 136
PBB-153	131		P	50 - 150
PBDE-47	123		P	41 - 148
PBDE-99	126		P	38 - 147
Pendimethalin	113		P	52 - 118
Pentabromotoluene	110		P	50 - 150
Phenytoin	107		P	10 - 162
Phorate	78.0		P	40 - 122
Prodiamine	70.2		P	26 - 141
Prometon	89.9		P	54 - 122
Prometryn	93.3		P	61 - 128
Pronamide	110		P	72 - 121
Propanil	96.5		P	45 - 144
Propargite	64.3		P	10 - 199
Propiconazole	86.8		P	56 - 127
Pyraflufen Ethyl	88.6		P	56 - 140
Pyridaben	144		P	26 - 211
Pyriproxyfen	46.6		P	33 - 194
Simazine	90.8		P	67 - 121
Stirophos	27.8		P	20 - 142
Sulfentrazone	124		P	21 - 144
Tebuconazole	79.2		P	10 - 122
Terbufos	96.3		P	60 - 129
Terbuthylazine	81.7		P	69 - 113
Tetradecachloro-m-terphenyl	108		P	70 - 200
Thiobencarb	95.6		P	51 - 120
Tri-o-cresyl Phosphate	123		P	49 - 150
Triadimefon	82.2		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	139		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	116		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	129		P	70 - 180

Reference Method: EPA 8276
Batch ID: P427285

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	78.3		P	61 - 116
Toxaphene	90.3		P	48 - 124

Reference Method: EPA 8321B
Batch ID: P427212

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	96.8		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P427212

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
AMPA	136		P	40 - 150
Endothall	96.2		P	40 - 150
Glufosinate	98.1		P	40 - 150
Glyphosate	126		P	40 - 150
Sucralose	99.9		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P427297

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	94.7		P	40 - 150
Aldicarb	54.4		P	30 - 150
Aldicarb Sulfone	91.3		P	40 - 150
Aldicarb Sulfoxide	113		P	40 - 150
Carbaryl	76.7		P	40 - 150
Carbofuran	69.7		P	40 - 150
Methiocarb	80.4		P	40 - 150
Methomyl	98.3		P	40 - 150
Oxamyl	108		P	40 - 150
Propoxur	68.3		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P427453

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	97.1		P	40 - 150
2,4,5-T	101		P	40 - 150
Acetaminophen	83.3		P	30 - 150
Acetamiprid	86.4		P	40 - 150
Afidopyropen	67.7		P	30 - 150
Bentazon	89.4		P	30 - 150
Benzovindiflupyr	85.4		P	40 - 150
Carbamazepine	86.4		P	40 - 150
Clothianidin	95.5		P	40 - 150
Dinotefuran	98.0		P	40 - 150
Diuron	83.7		P	40 - 150
Fenuron	92.2		P	40 - 150
Fluridone	80.2		P	40 - 150
Hydrocodone	98.8		P	40 - 150
Ibuprofen	84.0		P	40 - 150
Imazapyr	97.2		P	40 - 150
Imidacloprid	89.7		P	40 - 150
Linuron	78.7		P	40 - 150
Mandestrobin	82.4		P	40 - 150
MCPP	91.9		P	40 - 150
Naproxen	114		P	40 - 150
Primidone	92.7		P	40 - 150
Pyraclostrobin	71.2		P	40 - 150
Silvex	99.2		P	40 - 150
Thiamethoxam	96.1		P	40 - 150
Tolfenpyrad	47.4		P	30 - 150
Triclopyr	95.6		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P427558

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	94.8		P	94 - 106

Reference Method: SM 2540 C-2015
Batch ID: P427923

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	98.0		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P427593

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	93.3		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P427560

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	103		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P427749

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.8		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P427363

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2394599	Calcium	104		P	80 - 120
2394599	Iron	106	106	P/P	80 - 120
2394599	Magnesium	106		P	80 - 120
2394599	Potassium	101	101	P/P	80 - 120
2394599	Sodium	99.2		P	80 - 120
2394599	Strontium	101	100	P/P	80 - 120
2394599	Tin	107	106	P/P	80 - 120
2394599	Titanium	103	103	P/P	80 - 120
2394599	Vanadium	103	103	P/P	80 - 120
2394599	Zinc	100	100	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P427363

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2394599	Aluminum	98.7	99.4	P/P	80 - 120
2394599	Antimony	97.7	98.9	P/P	80 - 120
2394599	Arsenic	99.8	101	P/P	80 - 120
2394599	Barium	100	102	P/P	80 - 120
2394599	Beryllium	94.3	98.9	P/P	80 - 120
2394599	Boron	99.6	101	P/P	80 - 120
2394599	Cadmium	101	102	P/P	80 - 120
2394599	Chromium	98.5	99.7	P/P	80 - 120
2394599	Cobalt	94.3	95.3	P/P	80 - 120
2394599	Copper	100	102	P/P	80 - 120
2394599	Lead	94.3	94.6	P/P	80 - 120
2394599	Manganese	96.9	98.4	P/P	80 - 120
2394599	Molybdenum	101	108	P/P	80 - 120
2394599	Nickel	96.9	99.2	P/P	80 - 120
2394599	Selenium	86.9	86.2	P/P	80 - 120
2394599	Silver	96.5	96.4	P/P	80 - 120
2394599	Thallium	101	102	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427855

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2394997	Chloride	96.1		P	90 - 110
2395043	Chloride	97.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427858

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2394997	Sulfate	90.3		P	90 - 110
2395043	Sulfate	95.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427568

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393563	Ammonia-N	99.0	103	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427570

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2394742	Ammonia-N	99.2	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427737

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2394988	Kjeldahl Nitrogen	91.6	98.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427470

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2394720	NO2NO3-N	99.0	99.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427371

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2394812	Total-P	92.2	93.4	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P427285

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2394524	PCB-1016	57.6	57.2	P/P	46 - 111
2394524	PCB-1260	57.4	58.3	P/P	45 - 114
2394801	Aldrin	40.3	44.9	P/P	20 - 82.0
2394801	Alpha-BHC	78.8	77.9	P/P	71 - 109
2394801	Alpha-Chlordane	107	123	F/F	42 - 106
2394801	Beta-BHC	144	165	P/P	69 - 180
2394801	Beta-Cyfluthrin	125	159	P/P	18 - 175
2394801	Bifenthrin	39.2	42.4	P/P	21 - 128
2394801	Carbophenothion	75.5	108	P/P	10 - 126
2394801	Chlorothalonil	190	184	P/P	10 - 300
2394801	Cis-Nonachlor	44.9	58.8	P/P	34 - 106
2394801	Cypermethrin	125	158	P/P	22 - 158
2394801	Dacthal	124	142	F/F	54 - 116
2394801	DDD-p,p'	44.0	60.2	P/P	34 - 107
2394801	DDE-p,p'	48.0	62.0	P/P	33 - 110
2394801	DDT-p,p'	45.8	61.5	F/P	50 - 122
2394801	Delta-BHC	170	178	P/P	77 - 193
2394801	Deltamethrin	143	183	P/P	10 - 195
2394801	Dichlobenil	108	105	P/P	25 - 113
2394801	Dicofol	62.4	90.7	P/P	38 - 247
2394801	Dieldrin	53.2	65.6	P/P	45 - 118
2394801	Endosulfan I	55.5	67.2	P/P	51 - 106
2394801	Endosulfan II	57.7	73.8	P/P	37 - 122
2394801	Endosulfan Sulfate	109	140	P/F	43 - 132
2394801	Endrin	51.9	68.0	P/P	29 - 101
2394801	Endrin Aldehyde	89.8	110	P/F	19 - 110
2394801	Endrin Ketone	88.5	110	P/P	60 - 140
2394801	Esfenvalerate	133	171	P/P	26 - 199

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P427285

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2394801	Ethalfluralin	61.2	73.3	P/P	45 - 99.0
2394801	Fenpropathrin	92.3	115	P/P	35 - 120
2394801	Gamma-BHC	113	126	P/P	63 - 128
2394801	Gamma-Chlordane	54.4	67.1	P/P	40 - 104
2394801	Heptachlor	54.9	62.8	P/P	36 - 97.0
2394801	Heptachlor Epoxide	112	134	P/P	49 - 184
2394801	Hexachlorobenzene	79.0	90.9	P/P	39 - 96.0
2394801	Kepone	147	180	P/P	10 - 217
2394801	Lambda-Cyhalothrin	116	130	P/P	21 - 193
2394801	Methoprene	47.1	56.0	P/P	20 - 106
2394801	Methoxychlor	67.2	74.9	P/P	53 - 118
2394801	MGK-264	143	129	F/F	40 - 118
2394801	Mirex	36.4	48.5	P/P	26 - 92.0
2394801	Oxychlordane	60.6	65.8	P/P	44 - 99.0
2394801	Permethrin	109	146	P/P	33 - 182
2394801	Phenothrin	77.1	91.1	P/P	10 - 129
2394801	Piperonyl Butoxide	86.2	77.3	P/P	10 - 211
2394801	Prallethrin	48.3	60.2	P/P	24 - 113
2394801	Tau-Fluvalinate	112	142	P/P	14 - 149
2394801	Tetramethrin	115	130	P/P	17 - 151
2394801	Trans-Nonachlor	49.9	64.1	P/P	42 - 102
2394801	Triclosan Methyl	53.6	64.7	P/P	48 - 108
2394801	Trifluralin	59.6	73.5	P/P	47 - 96.0

Reference Method: EPA 8270E
Batch ID: P427316

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2394346	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	72.4	74.5	P/P	26 - 165
2394346	Acetochlor	82.2	86.0	P/P	67 - 124
2394346	Alachlor	73.5	70.2	P/P	60 - 120
2394346	Ametryn	64.8	63.0	P/P	54 - 216
2394346	Atrazine	63.8	57.0	F/F	66 - 128
2394346	Atrazine Desethyl	60.9	65.5	P/P	15 - 122
2394346	Avobenzone	86.4	102	P/P	37 - 178
2394346	Azinphos Methyl	74.3	60.2	P/P	40 - 292
2394346	Azoxystrobin	70.1	68.3	P/P	35 - 220
2394346	Bromacil	72.9	84.7	P/P	45 - 127
2394346	Butylate	27.9	28.7	P/P	20 - 83.0
2394346	Caffeine	57.1	110	P/P	10 - 194
2394346	Carbophenothion	61.2	57.7	P/P	57 - 127
2394346	Carfentrazone Ethyl	68.9	63.0	P/P	51 - 141
2394346	Chlorfenapyr	43.2	42.0	F/F	46 - 111
2394346	Chlorpyrifos Ethyl	52.8	52.8	P/P	52 - 120
2394346	Chlorpyrifos Methyl	59.0	61.4	F/F	63 - 119
2394346	Coumaphos	75.3	80.4	P/P	10 - 228
2394346	Cyanazine	140	130	P/P	59 - 241
2394346	Cyprodinil	61.2	50.0	P/P	47 - 146
2394346	Dechlorane 602	64.0	64.3	P/P	50 - 150
2394346	Dechlorane 603	64.2	65.2	P/P	50 - 150
2394346	Dechlorane Plus	49.6	48.8	F/F	50 - 150
2394346	Demeton	43.4	42.4	P/P	40 - 136

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P427316

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2394346	Diazinon	99.9	92.0	P/P	69 - 132
2394346	Difenoconazole	71.8	73.2	P/P	57 - 258
2394346	Dimethenamid	74.3	87.9	P/P	54 - 110
2394346	Dimethomorph	119	99.1	P/P	28 - 210
2394346	Disulfoton	84.4	77.4	P/P	43 - 133
2394346	Dithiopyr	62.3	70.1	P/P	39 - 116
2394346	EPTC	24.7	33.6	P/P	20 - 78.0
2394346	Ethion	40.9	40.2	P/P	17 - 119
2394346	Ethoprop	129	119	F/P	66 - 120
2394346	Etridiazole	38.2	42.7	P/P	28 - 96.0
2394346	Fenamiphos	59.6	70.4	P/P	41 - 126
2394346	Fenbuconazole	64.1	45.9	P/P	42 - 169
2394346	Fipronil	73.5	72.4	P/P	61 - 132
2394346	Fipronil Desulfinyl	54.6	60.1	F/P	56 - 132
2394346	Fipronil Sulfide	57.7	55.8	P/P	48 - 119
2394346	Fipronil Sulfone	59.0	70.4	P/P	42 - 131
2394346	Fluazifop-P-butyl	61.7	79.1	P/P	53 - 131
2394346	Fludioxonil	87.2	90.1	P/P	56 - 127
2394346	Flumioxazin	130	124	P/P	19 - 300
2394346	Flutolanil	52.5	60.6	P/P	41 - 127
2394346	Fluxapyroxad	56.2	49.6	P/P	42 - 172
2394346	Fonofos	64.4	66.0	P/P	59 - 113
2394346	Hexabromobenzene	92.6	85.8	P/P	50 - 150
2394346	Hexazinone	83.9	80.0	P/P	66 - 122
2394346	Imazalil	63.9	83.1	P/P	21 - 283
2394346	Iprodione	82.6	73.1	P/P	43 - 150
2394346	Loratadine	77.5	54.5	P/P	23 - 201
2394346	Malathion	65.9	71.2	P/P	58 - 136
2394346	Metalaxyl	55.9	69.0	P/P	55 - 120
2394346	Metolachlor	57.6	57.1	P/P	57 - 121
2394346	Metribuzin	69.2	68.5	P/P	58 - 294
2394346	Mevinphos	97.5	92.8	P/P	50 - 126
2394346	Molinate	43.6	46.4	P/P	42 - 93.0
2394346	Myclobutanil	88.5	89.2	P/P	55 - 125
2394346	Naled	39.7	46.7	P/P	18 - 200
2394346	Napropamide	46.9	50.7	P/P	39 - 110
2394346	Norflurazon	64.1	63.1	P/P	48 - 128
2394346	Octinoxate	84.5	78.9	P/P	21 - 159
2394346	Oxadiazon	71.1	70.9	P/P	43 - 112
2394346	Oxybenzone	90.6	81.8	P/P	41 - 142
2394346	Oxyfluorfen	77.9	74.3	P/P	64 - 153
2394346	Parathion Ethyl	72.0	65.5	P/F	69 - 114
2394346	Parathion Methyl	80.6	82.2	P/P	79 - 139
2394346	PBB-153	68.9	72.1	P/P	50 - 150
2394346	PBDE-47	82.4	82.4	P/P	27 - 144
2394346	PBDE-99	72.5	78.0	P/P	18 - 150
2394346	Pendimethalin	108	104	P/P	50 - 139
2394346	Pentabromotoluene	85.0	81.1	P/P	50 - 150
2394346	Phenytoin	42.8	53.3	P/P	10 - 146
2394346	Phorate	141	115	P/P	54 - 161
2394346	Prodiamine	56.6	51.2	P/P	30 - 161
2394346	Prometon	76.9	68.1	P/P	45 - 134

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P427316

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2394346	Prometryn	69.5	82.4	P/P	45 - 137
2394346	Pronamide	96.9	103	P/P	65 - 133
2394346	Propanil	67.0	76.9	P/P	49 - 142
2394346	Propargite	33.4	41.9	P/P	10 - 203
2394346	Propiconazole	60.9	56.5	P/P	38 - 146
2394346	Pyraflufen Ethyl	62.2	50.4	P/P	34 - 153
2394346	Pyridaben	97.7	114	P/P	12 - 192
2394346	Pyriproxyfen	31.3	31.0	F/F	33 - 180
2394346	Simazine	73.2	76.1	P/P	51 - 157
2394346	Stirophos	27.3	33.2	P/P	10 - 128
2394346	Sulfentrazone	68.6	62.3	P/P	53 - 186
2394346	Tebuconazole	47.4	50.6	P/P	10 - 133
2394346	Terbufos	97.9	82.6	P/P	65 - 139
2394346	Terbuthylazine	74.7	77.3	P/P	66 - 117
2394346	Tetradecachloro-m-terphenyl	63.7	59.8	F/F	70 - 200
2394346	Thiobencarb	63.5	70.3	P/P	51 - 119
2394346	Tri-o-cresyl Phosphate	82.5	82.7	P/P	31 - 144
2394346	Triadimefon	61.9	56.4	P/P	48 - 119
2394346	Tris(1-chloro-2-propyl) phosphate (TCPP)	106	92.4	P/P	50 - 150
2394346	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	86.3	87.5	P/P	50 - 150
2394346	Tris(2-chloroethyl) phosphate (TCEP)	93.8	83.3	P/P	70 - 180

Reference Method: EPA 8276
Batch ID: P427285

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2394524	Chlordane	68.9	70.0	P/P	53 - 126
2394524	Toxaphene	81.8	88.0	P/P	56 - 211

Reference Method: EPA 8321B
Batch ID: P427212

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393680	Acesulfame K	101	99.4	P/P	40 - 150
2393680	AMPA	89.6	83.5	P/P	40 - 150
2393680	Endothall	100	98.2	P/P	40 - 150
2393680	Glufosinate	72.6	71.3	P/P	40 - 150
2393680	Glyphosate	119	105	P/P	40 - 150
2393680	Sucralose	90.6	95.2	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P427297

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2394680	3-Hydroxycarbofuran	62.4	73.4	P/P	40 - 150
2394680	Aldicarb	36.1	37.9	P/P	30 - 150
2394680	Aldicarb Sulfone	63.8	68.5	P/P	40 - 150
2394680	Aldicarb Sulfoxide	25.4	26.1	F/F	40 - 150
2394680	Carbaryl	41.5	45.5	P/P	40 - 150
2394680	Carbofuran	40.2	44.1	P/P	40 - 150
2394680	Methiocarb	48.6	57.5	P/P	40 - 150
2394680	Methomyl	55.2	61.0	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P427297

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2394680	Oxamyl	66.8	71.6	P/P	40 - 150
2394680	Propoxur	36.7	41.3	F/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P427453

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2394681	2,4-D	104	102	P/P	40 - 150
2394681	2,4,5-T	120	113	P/P	40 - 150
2394681	Acetaminophen	91.5	93.1	P/P	30 - 150
2394681	Acetamiprid	70.9	67.0	P/P	40 - 150
2394681	Afidopyropen	83.6	75.2	P/P	30 - 150
2394681	Bentazon	52.1	56.6	P/P	30 - 150
2394681	Benzovindiflupyr	82.4	79.9	P/P	40 - 150
2394681	Carbamazepine	64.5	60.8	P/P	40 - 150
2394681	Clothianidin	94.6	92.4	P/P	40 - 150
2394681	Dinotefuran	75.3	74.1	P/P	40 - 150
2394681	Diuron	49.0	50.6	P/P	40 - 150
2394681	Fenuron	57.3	57.7	P/P	40 - 150
2394681	Fluridone	61.1	60.5	P/P	40 - 150
2394681	Hydrocodone	77.6	89.5	P/P	40 - 150
2394681	Ibuprofen	62.3	75.6	P/P	40 - 150
2394681	Imazapyr	99.6	127	P/P	40 - 150
2394681	Imidacloprid	123	123	P/P	40 - 150
2394681	Linuron	47.5	50.5	P/P	40 - 150
2394681	Mandestrobin	78.1	81.1	P/P	40 - 150
2394681	MCPP	112	116	P/P	40 - 150
2394681	Naproxen	84.1	83.5	P/P	40 - 150
2394681	Primidone	88.8	85.0	P/P	40 - 150
2394681	Pyraclostrobin	73.8	71.1	P/P	40 - 150
2394681	Silvex	123	119	P/P	40 - 150
2394681	Thiamethoxam	94.4	93.4	P/P	40 - 150
2394681	Tolfenpyrad	52.5	51.0	P/P	30 - 150
2394681	Triclopyr	110	112	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P427560

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2395045	Fluoride	104	103	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P427749

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2395049	Organic Carbon	94.9	97.3	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P427309

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2394741	Color (true)	0.682	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P427310

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2394669	Color (true)	3.39	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P427313

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2394596	Turbidity	6.34	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P427363

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2394599	Calcium	0.0405	Spike	P	0 - 20
2394599	Iron	0.269	Spike	P	0 - 20
2394599	Magnesium	1.10	Spike	P	0 - 20
2394599	Potassium	0.331	Spike	P	0 - 20
2394599	Sodium	1.00	Spike	P	0 - 20
2394599	Strontium	0.194	Spike	P	0 - 20
2394599	Tin	1.54	Spike	P	0 - 20
2394599	Titanium	0.209	Spike	P	0 - 20
2394599	Vanadium	0.567	Spike	P	0 - 20
2394599	Zinc	0.205	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P427363

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2394599	Aluminum	0.683	Spike	P	0 - 20
2394599	Antimony	1.23	Spike	P	0 - 20
2394599	Arsenic	1.11	Spike	P	0 - 20
2394599	Barium	1.23	Spike	P	0 - 20
2394599	Beryllium	4.74	Spike	P	0 - 20
2394599	Boron	1.47	Spike	P	0 - 20
2394599	Cadmium	1.50	Spike	P	0 - 20
2394599	Chromium	1.24	Spike	P	0 - 20
2394599	Cobalt	1.00	Spike	P	0 - 20
2394599	Copper	1.94	Spike	P	0 - 20
2394599	Lead	0.265	Spike	P	0 - 20
2394599	Manganese	1.32	Spike	P	0 - 20
2394599	Molybdenum	1.43	Spike	P	0 - 20
2394599	Nickel	2.29	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P427363

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2394599	Selenium	0.768	Spike	P	0 - 20
2394599	Silver	0.0998	Spike	P	0 - 20
2394599	Thallium	0.225	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427855

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2394997	Chloride	0.514	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427858

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2394997	Sulfate	0.391	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427568

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393563	Ammonia-N	3.02	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427570

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2394742	Ammonia-N	2.20	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427737

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2394988	Kjeldahl Nitrogen	6.18	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427470

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2394720	NO2NO3-N	0.504	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427371

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits

Quality Assurance Report
Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427371

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2394812	Total-P	1.08	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P427285

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2394524	PCB-1016	0.581	Spike	P	0 - 32
2394524	PCB-1260	1.61	Spike	P	0 - 31
2394801	Aldrin	10.7	Spike	P	0 - 41
2394801	Alpha-BHC	1.20	Spike	P	0 - 25
2394801	Alpha-Chlordane	13.8	Spike	P	0 - 33
2394801	Beta-BHC	13.6	Spike	P	0 - 36
2394801	Beta-Cyfluthrin	24.0	Spike	P	0 - 42
2394801	Bifenthrin	7.93	Spike	P	0 - 53
2394801	Carbophenothion	35.4	Spike	P	0 - 49
2394801	Chlorothalonil	2.99	Spike	P	0 - 71
2394801	Cis-Nonachlor	26.8	Spike	P	0 - 29
2394801	Cypermethrin	23.3	Spike	P	0 - 40
2394801	Dacthal	14.0	Spike	P	0 - 26
2394801	DDD-p,p'	31.1	Spike	P	0 - 39
2394801	DDE-p,p'	25.4	Spike	P	0 - 33
2394801	DDT-p,p'	29.3	Spike	P	0 - 40
2394801	Delta-BHC	4.74	Spike	P	0 - 37
2394801	Deltamethrin	24.8	Spike	P	0 - 100
2394801	Dichlobenil	2.64	Spike	P	0 - 40
2394801	Dicofol	36.9	Spike	F	0 - 31
2394801	Dieldrin	20.9	Spike	P	0 - 27
2394801	Endosulfan I	19.1	Spike	P	0 - 23
2394801	Endosulfan II	24.5	Spike	P	0 - 28
2394801	Endosulfan Sulfate	25.1	Spike	P	0 - 38
2394801	Endrin	26.9	Spike	P	0 - 63
2394801	Endrin Aldehyde	20.5	Spike	P	0 - 60
2394801	Endrin Ketone	22.0	Spike	P	0 - 37
2394801	Esfenvalerate	24.5	Spike	P	0 - 52
2394801	Ethalfluralin	18.0	Spike	P	0 - 23
2394801	Fenpropathrin	22.3	Spike	P	0 - 32
2394801	Gamma-BHC	10.4	Spike	P	0 - 17
2394801	Gamma-Chlordane	20.9	Spike	P	0 - 40
2394801	Heptachlor	13.3	Spike	P	0 - 29
2394801	Heptachlor Epoxide	17.7	Spike	P	0 - 25
2394801	Hexachlorobenzene	13.9	Spike	P	0 - 36
2394801	Kepone	20.0	Spike	P	0 - 93
2394801	Lambda-Cyhalothrin	11.5	Spike	P	0 - 55
2394801	Methoprene	17.3	Spike	P	0 - 53
2394801	Methoxychlor	10.7	Spike	P	0 - 29
2394801	MGK-264	10.1	Spike	P	0 - 35
2394801	Mirex	28.5	Spike	P	0 - 46
2394801	Oxychlordane	8.28	Spike	P	0 - 29
2394801	Permethrin	28.7	Spike	P	0 - 44
2394801	Phenothrin	16.6	Spike	P	0 - 56

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P427285

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2394801	Piperonyl Butoxide	10.9	Spike	P	0 - 100
2394801	Prallethrin	22.1	Spike	P	0 - 42
2394801	Tau-Fluvalinate	23.5	Spike	P	0 - 54
2394801	Tetramethrin	12.8	Spike	P	0 - 51
2394801	Trans-Nonachlor	24.9	Spike	P	0 - 37
2394801	Triclosan Methyl	18.7	Spike	P	0 - 31
2394801	Trifluralin	20.9	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P427316

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2394346	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	2.83	Spike	P	0 - 37
2394346	Acetochlor	4.45	Spike	P	0 - 28
2394346	Alachlor	4.57	Spike	P	0 - 30
2394346	Ametryn	2.71	Spike	P	0 - 32
2394346	Atrazine	7.51	Spike	P	0 - 41
2394346	Atrazine Desethyl	7.20	Spike	P	0 - 36
2394346	Avobenzone	16.9	Spike	P	0 - 36
2394346	Azinphos Methyl	20.9	Spike	P	0 - 75
2394346	Azoxystrobin	2.60	Spike	P	0 - 39
2394346	Bromacil	14.9	Spike	P	0 - 33
2394346	Butylate	2.96	Spike	P	0 - 44
2394346	Caffeine	53.1	Spike	P	0 - 74
2394346	Carbophenothion	5.95	Spike	P	0 - 25
2394346	Carfentrazone Ethyl	8.95	Spike	P	0 - 27
2394346	Chlorfenapyr	2.96	Spike	P	0 - 24
2394346	Chlorpyrifos Ethyl	0.0163	Spike	P	0 - 26
2394346	Chlorpyrifos Methyl	3.94	Spike	P	0 - 26
2394346	Coumaphos	6.57	Spike	P	0 - 28
2394346	Cyanazine	7.12	Spike	P	0 - 48
2394346	Cyprodinil	20.1	Spike	P	0 - 29
2394346	Dechlorane 602	0.426	Spike	P	0 - 30
2394346	Dechlorane 603	1.50	Spike	P	0 - 30
2394346	Dechlorane Plus	1.53	Spike	P	0 - 30
2394346	Demeton	2.25	Spike	P	0 - 33
2394346	Diazinon	7.47	Spike	P	0 - 29
2394346	Difenoconazole	1.91	Spike	P	0 - 34
2394346	Dimethenamid	16.8	Spike	P	0 - 39
2394346	Dimethomorph	17.9	Spike	P	0 - 51
2394346	Disulfoton	8.73	Spike	P	0 - 30
2394346	Dithiopyr	11.7	Spike	P	0 - 26
2394346	EPTC	30.5	Spike	P	0 - 43
2394346	Ethion	1.84	Spike	P	0 - 79
2394346	Ethoprop	8.16	Spike	P	0 - 29
2394346	Etridiazole	11.0	Spike	P	0 - 33
2394346	Fenamiphos	16.7	Spike	P	0 - 40
2394346	Fenbuconazole	24.9	Spike	P	0 - 74
2394346	Fipronil	1.48	Spike	P	0 - 29
2394346	Fipronil Desulfinyl	9.58	Spike	P	0 - 32

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P427316

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2394346	Fipronil Sulfide	3.45	Spike	P	0 - 30
2394346	Fipronil Sulfone	17.5	Spike	P	0 - 33
2394346	Fluazifop-P-butyl	24.7	Spike	P	0 - 38
2394346	Fludioxonil	3.22	Spike	P	0 - 29
2394346	Flumioxazin	4.55	Spike	P	0 - 51
2394346	Flutolanil	12.8	Spike	P	0 - 25
2394346	Fluxapyroxad	12.5	Spike	P	0 - 45
2394346	Fonofos	2.41	Spike	P	0 - 27
2394346	Hexabromobenzene	7.66	Spike	P	0 - 30
2394346	Hexazinone	4.77	Spike	P	0 - 30
2394346	Imazalil	26.1	Spike	P	0 - 100
2394346	Iprodione	12.2	Spike	P	0 - 33
2394346	Loratadine	34.9	Spike	P	0 - 56
2394346	Malathion	7.66	Spike	P	0 - 37
2394346	Metalaxyl	21.1	Spike	P	0 - 40
2394346	Metolachlor	0.510	Spike	P	0 - 29
2394346	Metribuzin	1.09	Spike	P	0 - 45
2394346	Mevinphos	4.99	Spike	P	0 - 29
2394346	Molinate	6.16	Spike	P	0 - 33
2394346	Myclobutanil	0.738	Spike	P	0 - 26
2394346	Naled	16.2	Spike	P	0 - 37
2394346	Napropamide	7.80	Spike	P	0 - 44
2394346	Norflurazon	1.53	Spike	P	0 - 30
2394346	Octinoxate	6.87	Spike	P	0 - 45
2394346	Oxadiazon	0.282	Spike	P	0 - 28
2394346	Oxybenzone	10.3	Spike	P	0 - 46
2394346	Oxyfluorfen	4.72	Spike	P	0 - 28
2394346	Parathion Ethyl	9.40	Spike	P	0 - 31
2394346	Parathion Methyl	2.03	Spike	P	0 - 29
2394346	PBB-153	4.63	Spike	P	0 - 30
2394346	PBDE-47	0.0798	Spike	P	0 - 36
2394346	PBDE-99	7.37	Spike	P	0 - 40
2394346	Pendimethalin	4.45	Spike	P	0 - 33
2394346	Pentabromotoluene	4.80	Spike	P	0 - 30
2394346	Phenytoin	21.9	Spike	P	0 - 100
2394346	Phorate	20.5	Spike	P	0 - 36
2394346	Prodiamine	9.99	Spike	P	0 - 71
2394346	Prometon	12.1	Spike	P	0 - 36
2394346	Prometryn	17.0	Spike	P	0 - 28
2394346	Pronamide	6.28	Spike	P	0 - 24
2394346	Propanil	13.7	Spike	P	0 - 28
2394346	Propargite	22.5	Spike	P	0 - 43
2394346	Propiconazole	7.42	Spike	P	0 - 33
2394346	Pyraflufen Ethyl	20.9	Spike	P	0 - 29
2394346	Pyridaben	15.8	Spike	P	0 - 30
2394346	Pyriproxyfen	0.857	Spike	P	0 - 79
2394346	Simazine	3.89	Spike	P	0 - 29
2394346	Stirophos	19.5	Spike	P	0 - 61
2394346	Sulfentrazone	9.54	Spike	P	0 - 33
2394346	Tebuconazole	6.69	Spike	P	0 - 69
2394346	Terbufos	17.0	Spike	P	0 - 29

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P427316

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2394346	Terbuthylazine	3.53	Spike	P	0 - 32
2394346	Tetradecachloro-m-terphenyl	6.40	Spike	P	0 - 30
2394346	Thiobencarb	10.2	Spike	P	0 - 26
2394346	Tri-o-cresyl Phosphate	0.280	Spike	P	0 - 33
2394346	Triadimefon	9.31	Spike	P	0 - 28
2394346	Tris(1-chloro-2-propyl) phosphate (TCPP)	11.9	Spike	P	0 - 30
2394346	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	1.40	Spike	P	0 - 30
2394346	Tris(2-chloroethyl) phosphate (TCEP)	11.9	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P427285

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2394524	Chlordane	1.64	Spike	P	0 - 25
2394524	Toxaphene	7.25	Spike	P	0 - 26

Reference Method: EPA 8321B
Batch ID: P427212

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393680	Acesulfame K	1.54	Spike	P	0 - 30
2393680	AMPA	7.08	Spike	P	0 - 30
2393680	Endothall	1.89	Spike	P	0 - 30
2393680	Glufosinate	1.80	Spike	P	0 - 30
2393680	Glyphosate	11.5	Spike	P	0 - 30
2393680	Sucralose	3.61	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P427297

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2394680	3-Hydroxycarbofuran	16.2	Spike	P	0 - 30
2394680	Aldicarb	5.03	Spike	P	0 - 30
2394680	Aldicarb Sulfone	7.02	Spike	P	0 - 30
2394680	Aldicarb Sulfoxide	2.85	Spike	P	0 - 30
2394680	Carbaryl	9.37	Spike	P	0 - 30
2394680	Carbofuran	9.36	Spike	P	0 - 30
2394680	Methiocarb	16.9	Spike	P	0 - 30
2394680	Methomyl	9.98	Spike	P	0 - 30
2394680	Oxamyl	6.93	Spike	P	0 - 30
2394680	Propoxur	11.8	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P427453

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2394681	2,4-D	1.09	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P427453

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2394681	2,4,5-T	6.40	Spike	P	0 - 30
2394681	Acetaminophen	1.71	Spike	P	0 - 30
2394681	Acetamiprid	5.78	Spike	P	0 - 30
2394681	Afidopyropen	10.6	Spike	P	0 - 30
2394681	Bentazon	8.34	Spike	P	0 - 30
2394681	Benzovindiflupyr	3.01	Spike	P	0 - 30
2394681	Carbamazepine	5.91	Spike	P	0 - 30
2394681	Clothianidin	2.37	Spike	P	0 - 30
2394681	Dinotefuran	1.52	Spike	P	0 - 30
2394681	Diuron	3.08	Spike	P	0 - 30
2394681	Fenuron	0.713	Spike	P	0 - 30
2394681	Fluridone	0.924	Spike	P	0 - 30
2394681	Hydrocodone	14.2	Spike	P	0 - 30
2394681	Ibuprofen	19.3	Spike	P	0 - 30
2394681	Imazapyr	14.3	Spike	P	0 - 30
2394681	Imidacloprid	0.163	Spike	P	0 - 30
2394681	Linuron	6.11	Spike	P	0 - 30
2394681	Mandestrobin	3.70	Spike	P	0 - 30
2394681	MCPP	3.87	Spike	P	0 - 30
2394681	Naproxen	0.799	Spike	P	0 - 30
2394681	Primidone	4.36	Spike	P	0 - 30
2394681	Pyraclostrobin	3.77	Spike	P	0 - 30
2394681	Silvex	3.23	Spike	P	0 - 30
2394681	Thiamethoxam	1.01	Spike	P	0 - 30
2394681	Tolfenpyrad	2.79	Spike	P	0 - 30
2394681	Triclopyr	1.98	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P427558

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395045	Total Alkalinity	1.45	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015
Batch ID: P427923

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2394727	TDS	7.10	Sample	P	0 - 10

Reference Method: SM 2540 D-2015
Batch ID: P427593

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2394727	TSS	6.32	Sample	P	0 - 10

Quality Assurance Report
Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P427560

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395045	Fluoride	0.996	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P427749

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395049	Organic Carbon	2.38	Spike	P	0 - 20

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2394768
Field Sample ID: G3NW0052

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	58.0	P	30 - 160

Lab Sample ID: 2394769
Field Sample ID: G3NW0052

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	109	P	30 - 160
EPA 8321B	Acetaminophen-d4	85.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	81.5	P	30 - 160
EPA 8321B	Diuron-d6	72.8	P	30 - 160
EPA 8321B	Endothall-d6	96.4	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	84.6	P	30 - 160
EPA 8321B	Ibuprofen-d3	78.7	P	30 - 160
EPA 8321B	Primidone-d5	102	P	30 - 160
EPA 8321B	Sucralose-d6	105	P	30 - 160

Lab Sample ID: 2394770
Field Sample ID: G3NW0135

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	132	P	30 - 160
EPA 8321B	Acetaminophen-d4	106	P	30 - 160
EPA 8321B	Carbamazepine-d10	93.6	P	30 - 160
EPA 8321B	Diuron-d6	82.0	P	30 - 160
EPA 8321B	Endothall-d6	94.3	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	80.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	83.4	P	30 - 160
EPA 8321B	Primidone-d5	114	P	30 - 160
EPA 8321B	Sucralose-d6	93.9	P	30 - 160

Lab Sample ID: 2394778
Field Sample ID: G3NW0052

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	69.0	P	29 - 130
EPA 8270E	Decachlorobiphenyl	64.6	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	53.5	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	59.0	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	41.8	P	30 - 101
EPA 8276	PCNB	80.0	P	48 - 121

Lab Sample ID: 2394779
Field Sample ID: G3NW0052

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	116	P	20 - 200
EPA 8270E	Simazine-d10	127	P	62 - 142
EPA 8270E	Terbufos-d10	101	P	58 - 132
EPA 8270E	Terphenyl-d14	109	P	52 - 137

Quality Assurance Report
Surrogates

Lab Sample ID: 2394780
Field Sample ID: G3NW0450

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	91.9	P	29 - 130
EPA 8270E	Decachlorobiphenyl	91.1	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	47.3	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	63.4	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	57.0	P	30 - 101
EPA 8276	PCNB	94.0	P	48 - 121

Quality Assurance Report
Calibration Verification

Reference Method: DEP SOP: NU-094-1
Run ID: A118058
Included Lab Sample IDs: 2394739, 2394741

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

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A118062
Included Lab Sample IDs: 2394739, 2394741

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

Reference Method: EPA 8321B
Run ID: A118066
Included Lab Sample IDs: 2394769, 2394770

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	95.4	94.2	P/P	60 - 160
Sucralose	95.9	96.8	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A118070
Included Lab Sample IDs: 2394769, 2394770

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	106	105	P/P	60 - 160
Endothall	97.7		P	60 - 160
Glufosinate	93.2		P	60 - 160
Glyphosate	99.6	83.9	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A118120
Included Lab Sample IDs: 2394740

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A118130
Included Lab Sample IDs: 2394740, 2394742

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.0	98.0	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A118131
Included Lab Sample IDs: 2394781, 2394782, 2394783

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.7	98.7	P/P	90 - 110
Antimony	94.3	95.1	P/P	90 - 110
Arsenic	99.0	99.7	P/P	90 - 110
Barium	96.8	97.1	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A118131
Included Lab Sample IDs: 2394781, 2394782, 2394783

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beryllium	97.8	97.7	P/P	90 - 110
Boron	96.9	95.9	P/P	90 - 110
Cadmium	96.8	98.2	P/P	90 - 110
Chromium	96.2	98.0	P/P	90 - 110
Cobalt	94.0	93.9	P/P	90 - 110
Copper	97.3	97.2	P/P	90 - 110
Lead	93.0	93.0	P/P	90 - 110
Manganese	95.9	97.5	P/P	90 - 110
Molybdenum	96.6	97.7	P/P	90 - 110
Nickel	97.9	97.5	P/P	90 - 110
Selenium	98.7	98.7	P/P	90 - 110
Silver	94.5	95.5	P/P	90 - 110
Thallium	100	99.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A118134
Included Lab Sample IDs: 2394742

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.0	97.5	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A118161
Included Lab Sample IDs: 2394739, 2394741

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	93.2	94.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A118161
Included Lab Sample IDs: 2394739, 2394741

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A118162
Included Lab Sample IDs: 2394740, 2394742

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	100	P/P	90 - 110
Ammonia-N	99.2	99.6	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A118174
Included Lab Sample IDs: 2394779

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	94.4		P	80 - 120
Avobenzone	92.2		P	80 - 120
Dechlorane 602	97.1		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A118174
Included Lab Sample IDs: 2394779

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dechlorane 603	94.1		P	80 - 120
Dechlorane Plus	94.8		P	80 - 120
Hexabromobenzene	93.6		P	80 - 120
Octinoxate	92.7		P	80 - 120
Oxybenzone	97.5		P	80 - 120
PBB-153	91.3		P	80 - 120
PBDE-47	91.9		P	80 - 120
PBDE-99	99.6		P	80 - 120
Pentabromotoluene	96.4		P	80 - 120
Tetradecachloro-m-terphenyl	87.0		P	80 - 120
Tri-o-cresyl Phosphate	95.3		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	95.2		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	93.4		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	93.9		P	80 - 120

Reference Method: EPA 8276
Run ID: A118195
Included Lab Sample IDs: 2394778, 2394780

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	99.6		P	80 - 120
Toxaphene	99.3		P	80 - 120

Reference Method: EPA 8270E
Run ID: A118204
Included Lab Sample IDs: 2394778, 2394780

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	93.2		P	80 - 120
PCB-1260	98.8		P	80 - 120

Reference Method: SM 5310 B-2011
Run ID: A118229
Included Lab Sample IDs: 2394740, 2394742

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

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A118244
Included Lab Sample IDs: 2394781, 2394782, 2394783

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	104	106	P/P	90 - 110
Iron	105	106	P/P	90 - 110
Magnesium	105	105	P/P	90 - 110
Potassium	102	101	P/P	90 - 110
Sodium	99.2	97.3	P/P	90 - 110
Strontium	102	99.1	P/P	90 - 110
Tin	103	103	P/P	90 - 110
Titanium	103	102	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A118244
Included Lab Sample IDs: 2394781, 2394782, 2394783

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Vanadium	103	103	P/P	90 - 110
Zinc	105	103	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A118247
Included Lab Sample IDs: 2394739, 2394741

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	97.9	99.0	P/P	90 - 110
Sulfate	97.4	98.0	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A118257
Included Lab Sample IDs: 2394779

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	111		P	80 - 120
Alachlor	109		P	80 - 120
Ametryn	115		P	80 - 120
Atrazine	98.2		P	80 - 120
Atrazine Desethyl	107		P	80 - 120
Azinphos Methyl	117		P	80 - 120
Azoxystrobin	101		P	80 - 120
Bromacil	101		P	80 - 120
Butylate	99.2		P	80 - 120
Caffeine	114		P	80 - 120
Carbophenothion	89.9		P	80 - 120
Carfentrazone Ethyl	85.1		P	80 - 120
Chlorfenapyr	110		P	80 - 120
Chlorpyrifos Ethyl	114		P	80 - 120
Chlorpyrifos Methyl	111		P	80 - 120
Coumaphos	98.7		P	80 - 120
Cyanazine	106		P	80 - 120
Cyprodinil	110		P	80 - 120
Demeton	99.2		P	80 - 120
Diazinon	88.8		P	80 - 120
Difenoconazole	110		P	80 - 120
Dimethenamid	101		P	80 - 120
Dimethomorph	115		P	80 - 120
Disulfoton	105		P	80 - 120
Dithiopyr	102		P	80 - 120
EPTC	102		P	80 - 120
Ethion	101		P	80 - 120
Ethoprop	112		P	80 - 120
Etridiazole	107		P	80 - 120
Fenamiphos	104		P	80 - 120
Fenbuconazole	113		P	80 - 120
Fipronil	92.4		P	80 - 120
Fipronil Desulfinyl	104		P	80 - 120
Fipronil Sulfide	93.2		P	80 - 120
Fipronil Sulfone	89.9		P	80 - 120

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Calibration Verification

Reference Method: EPA 8270E
Run ID: A118257
Included Lab Sample IDs: 2394779

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluazifop-P-butyl	94.6		P	80 - 120
Fludioxonil	102		P	80 - 120
Flumioxazin	86.6		P	80 - 120
Flutolanil	97.0		P	80 - 120
Fluxapyroxad	117		P	80 - 120
Fonofos	81.4		P	80 - 120
Hexazinone	105		P	80 - 120
Imazalil	111		P	80 - 120
Iprodione	118		P	80 - 120
Loratadine	115		P	80 - 120
Malathion	118		P	80 - 120
Metalaxyl	89.6		P	80 - 120
Metolachlor	94.0		P	80 - 120
Metribuzin	102		P	80 - 120
Mevinphos	92.2		P	80 - 120
Molinate	91.8		P	80 - 120
Myclobutanil	117		P	80 - 120
Naled	109		P	80 - 120
Napropamide	100		P	80 - 120
Norflurazon	81.2		P	80 - 120
Oxadiazon	98.0		P	80 - 120
Oxyfluorfen	120		P	80 - 120
Parathion Ethyl	96.4		P	80 - 120
Parathion Methyl	84.8		P	80 - 120
Pendimethalin	97.9		P	80 - 120
Phenytoin	107		P	80 - 120
Phorate	94.0		P	80 - 120
Prodiamine	118		P	80 - 120
Prometon	106		P	80 - 120
Prometryn	102		P	80 - 120
Pronamide	94.0		P	80 - 120
Propanil	99.4		P	80 - 120
Propargite	86.5		P	80 - 120
Propiconazole	90.3		P	80 - 120
Pyraflufen Ethyl	94.3		P	80 - 120
Pyridaben	93.9		P	80 - 120
Pyriproxyfen	110		P	80 - 120
Simazine	88.7		P	80 - 120
Stirophos	101		P	80 - 120
Sulfentrazone	84.5		P	80 - 120
Tebuconazole	111		P	80 - 120
Terbufos	103		P	80 - 120
Terbuthylazine	103		P	80 - 120
Thiobencarb	102		P	80 - 120
Triadimefon	106		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A118273
Included Lab Sample IDs: 2394740, 2394742

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A118273
Included Lab Sample IDs: 2394740, 2394742

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.6	91.3	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A118309
Included Lab Sample IDs: 2394769, 2394770

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	83.3	86.0	P/P	50 - 150
2,4,5-T	106	96.3	P/P	50 - 150
3-Hydroxycarbofuran	114	113	P/P	60 - 150
Acetaminophen	98.0	97.0	P/P	60 - 160
Acetamiprid	115	116	P/P	50 - 150
Afidopyropen	95.8	109	P/P	50 - 150
Aldicarb	110	93.0	P/P	60 - 150
Aldicarb Sulfone	101	102	P/P	50 - 150
Aldicarb Sulfoxide	105	104	P/P	50 - 150
Bentazon	121	125	P/P	50 - 160
Benzovindiflupyr	111	107	P/P	50 - 150
Carbamazepine	123	116	P/P	60 - 150
Carbaryl	98.7	109	P/P	60 - 150
Carbofuran	108	116	P/P	50 - 150
Clothianidin	111	119	P/P	60 - 150
Dinotefuran	111	119	P/P	50 - 150
Diuron	122	123	P/P	60 - 160
Fenuron	112	120	P/P	60 - 150
Fluridone	107	105	P/P	60 - 160
Hydrocodone	142	136	P/P	60 - 150
Ibuprofen	117	114	P/P	50 - 160
Imazapyr	123	134	P/P	50 - 150
Imidacloprid	100	104	P/P	60 - 150
Linuron	93.1	107	P/P	60 - 150
Mandestrobin	108	111	P/P	50 - 150
MCPP	108	108	P/P	50 - 150
Methiocarb	95.3	107	P/P	50 - 150
Methomyl	109	103	P/P	50 - 150
Naproxen	62.5	104	P/P	50 - 160
Oxamyl	110	105	P/P	50 - 150
Primidone	99.0	106	P/P	60 - 150
Propoxur	102	108	P/P	50 - 150
Pyraclostrobin	107	105	P/P	60 - 150
Silvex	115	109	P/P	50 - 150
Thiamethoxam	128	129	P/P	50 - 150
Tolfenpyrad	99.7	98.2	P/P	60 - 150
Triclopyr	108	114	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A118323
Included Lab Sample IDs: 2394778, 2394780

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	96.9		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A118323
Included Lab Sample IDs: 2394778, 2394780

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Alpha-BHC	98.6		P	80 - 120
Alpha-Chlordane	99.1		P	80 - 120
Beta-BHC	109		P	80 - 120
Beta-Cyfluthrin	102		P	80 - 120
Bifenthrin	97.6		P	80 - 120
Carbophenothion	107		P	80 - 120
Chlorothalonil	107		P	80 - 120
Cis-Nonachlor	93.8		P	80 - 120
Cypermethrin	104		P	80 - 120
Dacthal	100		P	80 - 120
DDD-p,p'	94.1		P	80 - 120
DDE-p,p'	93.5		P	80 - 120
DDT-p,p'	95.0		P	80 - 120
Delta-BHC	109		P	80 - 120
Deltamethrin	102		P	80 - 120
Dichlobenil	100		P	80 - 120
Dicofol	98.0		P	80 - 120
Dieldrin	93.1		P	80 - 120
Endosulfan I	94.8		P	80 - 120
Endosulfan II	98.5		P	80 - 120
Endosulfan Sulfate	106		P	80 - 120
Endrin	95.0		P	80 - 120
Endrin Aldehyde	93.3		P	80 - 120
Endrin Ketone	87.8		P	80 - 120
Esfenvalerate	104		P	80 - 120
Ethalfluralin	96.4		P	80 - 120
Fenpropathrin	105		P	80 - 120
Gamma-BHC	107		P	80 - 120
Gamma-Chlordane	96.5		P	80 - 120
Heptachlor	98.0		P	80 - 120
Heptachlor Epoxide	103		P	80 - 120
Hexachlorobenzene	100		P	80 - 120
Kepone	86.4		P	80 - 120
Lambda-Cyhalothrin	102		P	80 - 120
Methoprene	94.9		P	80 - 120
Methoxychlor	100		P	80 - 120
MGK-264	102		P	80 - 120
Mirex	94.4		P	80 - 120
Oxychlordane	97.8		P	80 - 120
Permethrin	101		P	80 - 120
Phenothrin	99.0		P	80 - 120
Piperonyl Butoxide	97.2		P	80 - 120
Prallethrin	96.9		P	80 - 120
Tau-Fluvalinate	106		P	80 - 120
Tetramethrin	103		P	80 - 120
Trans-Nonachlor	96.8		P	80 - 120
Triclosan Methyl	92.4		P	80 - 120
Trifluralin	100		P	80 - 120

Quality Assurance Report
Calibration Verification

* 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)	102				0.682	
	Color (true)	99.6				3.39	
EPA 180.1 Rev. 2.0	Turbidity	101				6.34	
EPA 200.7 Rev. 4.4	Calcium	106	104				0.0405
	Iron	107	106	106			0.269
	Magnesium	105	106				1.10
	Potassium	104	101	101			0.331
	Sodium	101	99.2				1.00
	Strontium	103	101	100			0.194
	Tin	108	107	106			1.54
	Titanium	105	103	103			0.209
	Vanadium	104	103	103			0.567
	Zinc	106	100	100			0.205
EPA 200.8 Rev. 5.4	Aluminum	99.2	98.7	99.4			0.683
	Antimony	96.5	97.7	98.9			1.23
	Arsenic	101	99.8	101			1.11
	Barium	100	100	102			1.23
	Beryllium	98.6	94.3	98.9			4.74
	Boron	96.5	99.6	101			1.47
	Cadmium	98.3	101	102			1.50
	Chromium	100	98.5	99.7			1.24
	Cobalt	97.7	94.3	95.3			1.00
	Copper	101	100	102			1.94
	Lead	93.1	94.3	94.6			0.265
	Manganese	98.8	96.9	98.4			1.32
	Molybdenum	97.9	101	108			1.43
	Nickel	102	96.9	99.2			2.29
	Selenium	97.9	86.9	86.2			0.768
	Silver	95.3	96.5	96.4			0.0998
	Thallium	97.5	101	102			0.225
EPA 300.0 Rev. 2.1	Chloride	99.0	96.1	97.5		0.514	
	Sulfate	96.8	90.3	95.4		0.391	
EPA 350.1 Rev. 2.0	Ammonia-N	100	99.0	103			3.02
	Ammonia-N	100	99.2	102			2.20
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	91.6	98.8			6.18
EPA 353.2 Rev. 2.0	NO2NO3-N	98.5	99.0	99.5			0.504
EPA 365.1 Rev. 2.0	Total-P	99.9	92.2	93.4			1.08
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	118	72.4	74.5			2.83
	Acetochlor	118	82.2	86.0			4.45
	Alachlor	102	73.5	70.2			4.57
	Aldrin	55.3	40.3	44.9			10.7
	Alpha-BHC	81.5	78.8	77.9			1.20
	Alpha-Chlordane	87.1	107	123			13.8
	Ametryn	74.4	64.8	63.0			2.71
	Atrazine	86.7	63.8	57.0			7.51
	Atrazine Desethyl	86.1	60.9	65.5			7.20
	Avobenzone	153	86.4	102			16.9
	Azinphos Methyl	78.9	74.3	60.2			20.9
	Azoxystrobin	88.9	70.1	68.3			2.60
	Beta-BHC	102	144	165			13.6
	Beta-Cyfluthrin	98.8	125	159			24.0
	Bifenthrin	58.0	39.2	42.4			7.93

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Bromacil	107	72.9	84.7			14.9
	Butylate	29.5	27.9	28.7			2.96
	Caffeine	90.1	57.1	110			53.1
	Carbophenothion	66.7	75.5	108			35.4
	Carbophenothion	92.1	61.2	57.7			5.95
	Carfentrazone Ethyl	115	68.9	63.0			8.95
	Chlorfenapyr	59.4	43.2	42.0			2.96
	Chlorothalonil	92.4	190	184			2.99
	Chlorpyrifos Ethyl	72.9	52.8	52.8			0.0163
	Chlorpyrifos Methyl	86.4	59.0	61.4			3.94
	Cis-Nonachlor	66.9	44.9	58.8			26.8
	Coumaphos	130	75.3	80.4			6.57
	Cyanazine	165	140	130			7.12
	Cypermethrin	104	125	158			23.3
	Cyprodinil	71.7	61.2	50.0			20.1
	Dacthal	95.7	124	142			14.0
	DDD-p,p'	67.8	44.0	60.2			31.1
	DDE-p,p'	67.8	48.0	62.0			25.4
	DDT-p,p'	68.0	45.8	61.5			29.3
	Dechlorane 602	111	64.0	64.3			0.426
	Dechlorane 603	111	64.2	65.2			1.50
	Dechlorane Plus	92.1	49.6	48.8			1.53
	Delta-BHC	113	170	178			4.74
	Deltamethrin	118	143	183			24.8
	Demeton	45.2	43.4	42.4			2.25
	Diazinon	126	99.9	92.0			7.47
	Dichlobenil	77.6	108	105			2.64
	Dicofol	68.4	62.4	90.7			36.9
	Dieldrin	71.3	53.2	65.6			20.9
	Difenoconazole	71.1	71.8	73.2			1.91
	Dimethenamid	107	74.3	87.9			16.8
	Dimethomorph	97.8	119	99.1			17.9
	Disulfoton	94.6	84.4	77.4			8.73
	Dithiopyr	96.6	62.3	70.1			11.7
	Endosulfan I	75.7	55.5	67.2			19.1
	Endosulfan II	72.3	57.7	73.8			24.5
	Endosulfan Sulfate	93.2	109	140			25.1
	Endrin	73.9	51.9	68.0			26.9
	Endrin Aldehyde	80.1	89.8	110			20.5
	Endrin Ketone	74.5	88.5	110			22.0
	EPTC	30.6	24.7	33.6			30.5
	Esfenvalerate	110	133	171			24.5
	Ethalfluralin	74.2	61.2	73.3			18.0
	Ethion	67.2	40.9	40.2			1.84
	Ethoprop	143	129	119			8.16
	Etridiazole	43.9	38.2	42.7			11.0
	Fenamiphos	79.6	59.6	70.4			16.7
	Fenbuconazole	86.7	64.1	45.9			24.9
	Fenpropathrin	80.9	92.3	115			22.3
	Fipronil	93.5	73.5	72.4			1.48
	Fipronil Desulfinyl	77.9	54.6	60.1			9.58
	Fipronil Sulfide	74.2	57.7	55.8			3.45
	Fipronil Sulfone	99.8	59.0	70.4			17.5
	Fluazifop-P-butyl	98.2	61.7	79.1			24.7

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Fludioxonil	125	87.2	90.1			3.22
	Flumioxazin	183	130	124			4.55
	Flutolanil	87.5	52.5	60.6			12.8
	Fluxapyroxad	54.3	56.2	49.6			12.5
	Fonofos	80.1	64.4	66.0			2.41
	Gamma-BHC	91.3	113	126			10.4
	Gamma-Chlordane	68.0	54.4	67.1			20.9
	Heptachlor	63.4	54.9	62.8			13.3
	Heptachlor Epoxide	89.7	112	134			17.7
	Hexabromobenzene	127	92.6	85.8			7.66
	Hexachlorobenzene	69.3	79.0	90.9			13.9
	Hexazinone	99.5	83.9	80.0			4.77
	Imazalil	72.1	63.9	83.1			26.1
	Iprodione	75.8	82.6	73.1			12.2
	Kepone	117	147	180			20.0
	Lambda-Cyhalothrin	77.7	116	130			11.5
	Loratadine	53.7	77.5	54.5			34.9
	Malathion	95.2	65.9	71.2			7.66
	Metalaxyl	98.1	55.9	69.0			21.1
	Methoprene	57.9	47.1	56.0			17.3
	Methoxychlor	77.3	67.2	74.9			10.7
	Metolachlor	103	57.6	57.1			0.510
	Metribuzin	88.4	69.2	68.5			1.09
	Mevinphos	104	97.5	92.8			4.99
	MGK-264	89.5	143	129			10.1
	Mirex	49.7	36.4	48.5			28.5
	Molinate	47.4	43.6	46.4			6.16
	Myclobutanil	126	88.5	89.2			0.738
	Naled	47.3	39.7	46.7			16.2
	Napropamide	74.8	46.9	50.7			7.80
	Norflurazon	99.0	64.1	63.1			1.53
	Octinoxate	107	84.5	78.9			6.87
	Oxadiazon	97.6	71.1	70.9			0.282
	Oxybenzone	121	90.6	81.8			10.3
	Oxychlordane	71.7	60.6	65.8			8.28
	Oxyfluorfen	95.6	77.9	74.3			4.72
	Parathion Ethyl	96.8	72.0	65.5			9.40
	Parathion Methyl	109	80.6	82.2			2.03
	PBB-153	131	68.9	72.1			4.63
	PBDE-47	123	82.4	82.4			0.0798
	PBDE-99	126	72.5	78.0			7.37
	PCB-1016	65.4	57.6	57.2			0.581
	PCB-1260	70.5	57.4	58.3			1.61
	Pendimethalin	113	108	104			4.45
	Pentabromotoluene	110	85.0	81.1			4.80
	Permethrin	92.1	109	146			28.7
	Phenothrin	70.4	77.1	91.1			16.6
	Phenytoin	107	42.8	53.3			21.9
	Phorate	78.0	141	115			20.5
	Piperonyl Butoxide	80.9	86.2	77.3			10.9
	Prallethrin	68.9	48.3	60.2			22.1
	Prodiamine	70.2	56.6	51.2			9.99
	Prometon	89.9	76.9	68.1			12.1
	Prometryn	93.3	69.5	82.4			17.0

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Pronamide	110	96.9	103			6.28
	Propanil	96.5	67.0	76.9			13.7
	Propargite	64.3	33.4	41.9			22.5
	Propiconazole	86.8	60.9	56.5			7.42
	Pyraflufen Ethyl	88.6	62.2	50.4			20.9
	Pyridaben	144	97.7	114			15.8
	Pyriproxyfen	46.6	31.3	31.0			0.857
	Simazine	90.8	73.2	76.1			3.89
	Stirophos	27.8	27.3	33.2			19.5
	Sulfentrazone	124	68.6	62.3			9.54
	Tau-Fluvalinate	91.7	112	142			23.5
	Tebuconazole	79.2	47.4	50.6			6.69
	Terbufos	96.3	97.9	82.6			17.0
	Terbuthylazine	81.7	74.7	77.3			3.53
	Tetradecachloro-m-terphenyl	108	59.8	63.7			6.40
	Tetramethrin	100	115	130			12.8
	Thiobencarb	95.6	63.5	70.3			10.2
	Trans-Nonachlor	73.5	49.9	64.1			24.9
	Tri-o-cresyl Phosphate	123	82.5	82.7			0.280
	Triadimefon	82.2	61.9	56.4			9.31
	Triclosan Methyl	72.6	53.6	64.7			18.7
	Trifluralin	74.3	59.6	73.5			20.9
	Tris(1-chloro-2-propyl) phosphate (TCPP)	139	106	92.4			11.9
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	116	87.5	86.3			1.40
	Tris(2-chloroethyl) phosphate (TCEP)	129	93.8	83.3			11.9
EPA 8276	Chlordane	78.3	68.9	70.0			1.64
	Toxaphene	90.3	81.8	88.0			7.25
EPA 8321B	2,4-D	97.1	102	104			1.09
	2,4,5-T	101	113	120			6.40
	3-Hydroxycarbofuran	94.7	62.4	73.4			16.2
	Acesulfame K	96.8	101	99.4			1.54
	Acetaminophen	83.3	91.5	93.1			1.71
	Acetamiprid	86.4	67.0	70.9			5.78
	Afidopyropen	67.7	75.2	83.6			10.6
	Aldicarb	54.4	36.1	37.9			5.03
	Aldicarb Sulfone	91.3	63.8	68.5			7.02
	Aldicarb Sulfoxide	113	25.4	26.1			2.85
	AMPA	136	89.6	83.5			7.08
	Bentazon	89.4	56.6	52.1			8.34
	Benzovindiflupyr	85.4	79.9	82.4			3.01
	Carbamazepine	86.4	60.8	64.5			5.91
	Carbaryl	76.7	41.5	45.5			9.37
	Carbofuran	69.7	40.2	44.1			9.36
	Clothianidin	95.5	92.4	94.6			2.37
	Dinotefuran	98.0	75.3	74.1			1.52
	Diuron	83.7	50.6	49.0			3.08
	Endothall	96.2	100	98.2			1.89
	Fenuron	92.2	57.7	57.3			0.713
	Fluridone	80.2	60.5	61.1			0.924
	Glufosinate	98.1	72.6	71.3			1.80
	Glyphosate	126	119	105			11.5

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Hydrocodone	98.8	77.6	89.5			14.2
	Ibuprofen	84.0	75.6	62.3			19.3
	Imazapyr	97.2	127	99.6			14.3
	Imidacloprid	89.7	123	123			0.163
	Linuron	78.7	50.5	47.5			6.11
	Mandestrobin	82.4	81.1	78.1			3.70
	MCPP	91.9	116	112			3.87
	Methiocarb	80.4	57.5	48.6			16.9
	Methomyl	98.3	55.2	61.0			9.98
	Naproxen	114	83.5	84.1			0.799
	Oxamyl	108	66.8	71.6			6.93
	Primidone	92.7	88.8	85.0			4.36
	Propoxur	68.3	36.7	41.3			11.8
	Pyraclostrobin	71.2	71.1	73.8			3.77
	Silvex	99.2	119	123			3.23
	Sucralose	99.9	90.6	95.2			3.61
	Thiamethoxam	96.1	93.4	94.4			1.01
	Tolfenpyrad	47.4	51.0	52.5			2.79
	Triclopyr	95.6	112	110			1.98
SM 2320 B-2011	Total Alkalinity	94.8				1.45	
SM 2540 C-2015	TDS	98.0				7.10	
SM 2540 D-2015	TSS	93.3				6.32	
SM 4500-F- C-2011	Fluoride	103	104	103			0.996
SM 5310 B-2011	Organic Carbon	96.8	94.9	97.3			2.38

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2394739, 2394741
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2394739, 2394741
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2394781, 2394782, 2394783
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2394781, 2394782, 2394783
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2394739, 2394741
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2394739, 2394741
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2394740, 2394742
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2394740, 2394742
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2394740, 2394742
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2394740, 2394742
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2394779
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2394778, 2394780
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2394779
EPA 8270E	PCBs in water matrices by GC/MS/MS	2394778, 2394780
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2394778, 2394780
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2394768
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2394769, 2394770
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2394739, 2394741
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2394781, 2394782, 2394783
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2394739, 2394741
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2394739, 2394741
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2394739, 2394741

Reference Method Descriptions

Method	Description	Associated Samples
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2394740, 2394742

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	03/17/2023			03/17/2023 14:10	Alexis Price	2394741
	03/17/2023			03/17/2023 14:16	Alexis Price	2394739
EPA 180.1 Rev. 2.0	03/17/2023			03/17/2023 13:54	Anna M. Plaviak	2394739
	03/17/2023			03/17/2023 13:56	Anna M. Plaviak	2394741
EPA 200.7 Rev. 4.4	03/17/2023	03/20/2023 13:45	George D Taylor	03/28/2023 20:49	McKinley C Carter	2394781
	03/17/2023	03/20/2023 13:45	George D Taylor	03/28/2023 20:56	McKinley C Carter	2394782
	03/17/2023	03/20/2023 13:45	George D Taylor	03/28/2023 21:02	McKinley C Carter	2394783
EPA 200.8 Rev. 5.4	03/17/2023	03/20/2023 13:45	George D Taylor	03/21/2023 22:46	Conrad Hartmann	2394781
	03/17/2023	03/20/2023 13:45	George D Taylor	03/21/2023 22:55	Conrad Hartmann	2394782
	03/17/2023	03/20/2023 13:45	George D Taylor	03/21/2023 23:04	Conrad Hartmann	2394783
EPA 300.0 Rev. 2.1	03/17/2023			03/29/2023 14:11	Anna M. Plaviak	2394739
	03/17/2023			03/29/2023 14:26	Anna M. Plaviak	2394741
EPA 350.1 Rev. 2.0	03/17/2023			03/23/2023 11:24	Khloe J Berg	2394740
	03/17/2023			03/23/2023 12:03	Khloe J Berg	2394742
EPA 351.2 Rev. 2.0	03/17/2023	03/28/2023 16:17	Simonne.V. Calhoun	03/29/2023 14:10	Judith K. Clark	2394740
	03/17/2023	03/28/2023 16:17	Simonne.V. Calhoun	03/29/2023 14:12	Judith K. Clark	2394742
EPA 353.2 Rev. 2.0	03/17/2023			03/22/2023 10:08	Beverly Y. Sanders	2394740
	03/17/2023			03/22/2023 10:09	Beverly Y. Sanders	2394742
EPA 365.1 Rev. 2.0	03/17/2023	03/21/2023 15:02	Adam P Silver	03/22/2023 09:49	James L Waggerby	2394740
	03/17/2023	03/21/2023 15:02	Adam P Silver	03/22/2023 12:48	James L Waggerby	2394742
EPA 8270E	03/17/2023	03/21/2023 08:30	Rasheda Ghaffari	03/23/2023 19:45	Arthur Maknenko	2394779
	03/17/2023	03/21/2023 08:30	Rasheda Ghaffari	03/23/2023 22:36	Michael Poppell	2394779
	03/17/2023	03/22/2023 08:00	Fe-Val Siddell	03/24/2023 02:29	Julie Wi	2394778
	03/17/2023	03/22/2023 08:00	Fe-Val Siddell	03/24/2023 02:59	Julie Wi	2394780
	03/17/2023	03/22/2023 08:00	Fe-Val Siddell	03/24/2023 20:04	Julie Wi	2394778
	03/17/2023	03/22/2023 08:00	Fe-Val Siddell	03/24/2023 20:33	Julie Wi	2394780
EPA 8276	03/17/2023	03/22/2023 08:00	Fe-Val Siddell	03/24/2023 15:04	Lipi Saha	2394778
	03/17/2023	03/22/2023 08:00	Fe-Val Siddell	03/24/2023 15:59	Lipi Saha	2394780
EPA 8321B	03/17/2023	03/17/2023 13:00	Manjita Shrestha	03/17/2023 22:07	Manjita Shrestha	2394769
	03/17/2023	03/17/2023 13:00	Manjita Shrestha	03/17/2023 22:20	Manjita Shrestha	2394770
	03/17/2023	03/17/2023 13:00	Manjita Shrestha	03/18/2023 18:03	Manjita Shrestha	2394769
	03/17/2023	03/17/2023 13:00	Manjita Shrestha	03/18/2023 18:17	Manjita Shrestha	2394770
	03/17/2023	03/22/2023 09:00	Hoor Shaik	03/30/2023 03:35	Juyoung Kim	2394768
	03/17/2023	03/23/2023 09:00	Hoor Shaik	03/30/2023 08:17	Juyoung Kim	2394769
	03/17/2023	03/23/2023 09:00	Hoor Shaik	03/30/2023 08:36	Juyoung Kim	2394770
SM 2320 B-2011	03/17/2023			03/22/2023 21:42	Dale L. Simmons	2394739
	03/17/2023			03/22/2023 21:51	Dale L. Simmons	2394741
SM 2340 B-2011	03/17/2023			03/28/2023 20:49	McKinley C Carter	2394781
	03/17/2023			03/28/2023 20:56	McKinley C Carter	2394782
	03/17/2023			03/28/2023 21:02	McKinley C Carter	2394783

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2540 C-2015	03/17/2023			03/21/2023 16:04	Yijie Li	2394739, 2394741
SM 2540 D-2015	03/17/2023			03/21/2023 16:04	Yijie Li	2394739, 2394741
SM 4500-F- C-2011	03/17/2023			03/22/2023 21:42	Dale L. Simmons	2394739
	03/17/2023			03/22/2023 21:51	Dale L. Simmons	2394741
SM 5310 B-2011	03/17/2023			03/27/2023 21:07	Elise M. Gillis	2394740
	03/17/2023			03/27/2023 21:24	Elise M. Gillis	2394742