

Chemical Analysis Report

NW-DIST-2023-03-22-01

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

Event Description: **Niceville Run**
Request ID: **RQ-2023-03-20-18**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
160 W Government Street
Suite 208
Pensacola, FL 32502-5794
Attn: Myranda Butler

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Certified by: Colin Wright, Program Administrator

Date Certified: 18-APR-2023 10:16

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light gray rectangular background.

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: Gap Creek South of Gail La Rue Cul-de-sac

Collection Date/Time: 03/21/2023 10:10

Field ID: G3NW0208

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2395759	EPA 8321B	2,4-D	0.0024	I	ug/L	P427453	MS
		Acesulfame K	0.10	U	ug/L	P427368	
		2,4,5-T	0.0040	U	ug/L	P427453	
		AMPA	0.10	U	ug/L	P427368	
		Acetaminophen	0.0080	U	ug/L	P427453	
		Acetamiprid	0.0020	U	ug/L	P427453	
		Endothall	0.25	U	ug/L	P427368	
		Glufosinate	0.10	U	ug/L	P427368	
		Glyphosate	0.10	U	ug/L	P427368	
		Afidopyropen	0.0020	U	ug/L	P427453	
		Bentazon	0.0011	I	ug/L	P427453	
		Sucralose	0.080		ug/L	P427368	
		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	0.0024	I	ug/L	P427453	
		Fenuron	0.032	U	ug/L	P427453	
		Fluridone	8.0E-04	U	ug/L	P427453	
		Imazapyr	0.093		ug/L	P427453	
		Hydrocodone	0.0020	U	ug/L	P427453	
		Ibuprofen	0.080	U	ug/L	P427453	
		Imidacloprid	0.0031	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	
2395770	EPA 200.7 Rev. 4.4	Calcium	12.5		mg/L	P427550	
		Iron	330		ug/L	P427550	
		Magnesium	1.41		mg/L	P427550	
		Potassium	0.84	I	mg/L	P427550	
		Sodium	12.5		mg/L	P427550	
		Strontium	73.8		ug/L	P427550	
		Tin	3.0	U	ug/L	P427550	
		Titanium	0.75	U	ug/L	P427550	
		Vanadium	2.0	U	ug/L	P427550	
		Zinc	5.0	U	ug/L	P427550	
	EPA 200.8 Rev. 5.4	Aluminum	120		ug/L	P427550	

Field ID: G3NW0208

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2395770	EPA 200.8 Rev. 5.4	Antimony	0.069	I	ug/L	P427550	
		Arsenic	0.32		ug/L	P427550	
		Barium	13.5		ug/L	P427550	
		Beryllium	0.010	U	ug/L	P427550	
		Boron	45.3		ug/L	P427550	
		Cadmium	0.020	U	ug/L	P427550	
		Chromium	0.40	U	ug/L	P427550	
		Cobalt	0.045	I	ug/L	P427550	
		Copper	0.40	U	ug/L	P427550	
		Lead	0.20	U	ug/L	P427550	
		Manganese	6.57		ug/L	P427550	
		Molybdenum	0.15	U	ug/L	P427550	
		Nickel	0.50	U	ug/L	P427550	
		Selenium	0.20	U	ug/L	P427550	
		Silver	0.010	U	ug/L	P427550	
		Thallium	0.10	U	ug/L	P427550	
	SM 2340 B-2011	Hardness	37.1		mg/L	P427550	

Sample Location: Gap Creek powerline South of Overbrook Drive Collection Date/Time: 03/21/2023 10:30

Field ID: G3NW0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2395757	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
2395758		2,4-D	0.0050	I	ug/L	P427453	
		Acesulfame K	0.31	I	ug/L	P427368	MS
		2,4,5-T	0.0040	U	ug/L	P427453	
		AMPA	0.10	U	ug/L	P427368	
		Acetaminophen	0.0080	U	ug/L	P427453	
		Acetamiprid	0.0020	U	ug/L	P427453	
		Endothall	0.25	U	ug/L	P427368	
		Glufosinate	0.10	U	ug/L	P427368	
		Glyphosate	0.10	U	ug/L	P427368	
		Afidopyropen	0.0020	U	ug/L	P427453	
		Bentazon	9.5E-04	I	ug/L	P427453	
		Sucralose	0.20		ug/L	P427368	
		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	0.027		ug/L	P427453	
		Hydrocodone	0.0020	U	ug/L	P427453	
		Ibuprofen	0.080	U	ug/L	P427453	
		Imidacloprid	0.026		ug/L	P427453	
		Linuron	0.0040	U	ug/L	P427453	
		Mandestrobin	0.0020	U	ug/L	P427453	
		MCP	0.0037	I	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	
2395768	EPA 8270E	Aldrin	0.67	U	ng/L	P427472	

Field ID: G3NW0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2395768	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P427472	
		Alpha-Chlordane	0.21	U	ng/L	P427472	
		PCB-1016	2.1	U	ng/L	P427472	
		Beta-BHC	0.10	U	ng/L	P427472	
		PCB-1221	2.1	U	ng/L	P427472	
		Beta-Cyfluthrin	1.3	U	ng/L	P427472	
		PCB-1232	2.1	U	ng/L	P427472	
		Bifenthrin	0.52	U	ng/L	P427472	
		PCB-1242	2.1	U	ng/L	P427472	
		PCB-1248	2.1	U	ng/L	P427472	
		Chlorothalonil	3.7	U	ng/L	P427472	MS, RPD
		PCB-1254	2.1	U	ng/L	P427472	
		Cis-Nonachlor	0.21	U	ng/L	P427472	
		PCB-1260	2.1	U	ng/L	P427472	
		Cypermethrin	1.5	U	ng/L	P427472	
		Dacthal	0.15	U	ng/L	P427472	
		DDD-p,p'	0.26	U	ng/L	P427472	
		DDE-p,p'	0.21	U	ng/L	P427472	
		DDT-p,p'	0.26	U	ng/L	P427472	
		Delta-BHC	0.41	U	ng/L	P427472	
		Deltamethrin	1.3	U	ng/L	P427472	
		Dichlobenil	0.26	U	ng/L	P427472	
		Dicofol	1.3	U	ng/L	P427472	
		Dieldrin	0.41	U	ng/L	P427472	
		Endosulfan I	0.41	U	ng/L	P427472	
		Endosulfan II	0.41	U	ng/L	P427472	
		Endosulfan Sulfate	0.31	U	ng/L	P427472	
		Endrin	0.41	U	ng/L	P427472	
		Endrin Aldehyde	0.77	U	ng/L	P427472	
		Endrin Ketone	0.41	U	ng/L	P427472	MS
		Esfenvalerate	0.77	U	ng/L	P427472	
		Ethalfuralin	0.15	U	ng/L	P427472	
		Fenpropathrin	0.26	U	ng/L	P427472	
		Gamma-BHC	0.13	U	ng/L	P427472	
		Gamma-Chlordane	0.21	U	ng/L	P427472	
		Heptachlor	0.21	U	ng/L	P427472	MS
		Heptachlor Epoxide	0.29	I	ng/L	P427472	
		Hexachlorobenzene**	1.0	U	ng/L	P427472	
		Kepone	5.2	UJ	ng/L	P427472	CCV
		Lambda-Cyhalothrin	0.77	U	ng/L	P427472	
		Methoprene	0.77	U	ng/L	P427472	
		Methoxychlor	0.31	U	ng/L	P427472	
		MGK-264	0.21	U	ng/L	P427472	MS
		Mirex	0.36	U	ng/L	P427472	
		Oxychlordane	0.31	U	ng/L	P427472	

Field ID: G3NW0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2395768	EPA 8270E	Permethrin	1.7	U	ng/L	P427472	
		Phenothrin	0.93	U	ng/L	P427472	
		Piperonyl Butoxide	0.15	U	ng/L	P427472	
		Prallethrin	2.1	U	ng/L	P427472	
		Tau-Fluvalinate	0.26	U	ng/L	P427472	
		Tetramethrin	0.77	U	ng/L	P427472	
		Trans-Nonachlor	0.21	U	ng/L	P427472	
		Triclosan Methyl	0.15	U	ng/L	P427472	
		Trifluralin	0.21	U	ng/L	P427472	
		Chlordane	2.1	U	ng/L	P427472	
	EPA 8276	Toxaphene	15	U	ng/L	P427472	
		Oxybenzone**	10	U	ng/L	P427449	
		Acetochlor	0.20	U	ng/L	P427449	
		Octinoxate**	20	U	ng/L	P427449	
		Alachlor	0.41	U	ng/L	P427449	
		Avobenzone**	100	U	ng/L	P427449	
		Ametryn	1.1	U	ng/L	P427449	
		Atrazine	81		ng/L	P427449	
		PBDE-47**	4.1	U	ng/L	P427449	
		Atrazine Desethyl	1.3	U	ng/L	P427449	
2395769	EPA 8270E	PBDE-99**	5.1	U	ng/L	P427449	
		Azinphos Methyl	3.0	U	ng/L	P427449	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P427449	
		Azoxystrobin	0.41	U	ng/L	P427449	
		Bromacil	0.61	U	ng/L	P427449	
		2-Ethylhexyl	12	U	ng/L	P427449	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.20	U	ng/L	P427449	
		Dechlorane Plus**	30	U	ng/L	P427449	
		Caffeine**	7.6	U	ng/L	P427449	
		Dechlorane 602**	5.1	U	ng/L	P427449	
		Carbophenothion	0.51	U	ng/L	P427449	
		Dechlorane 603**	4.1	U	ng/L	P427449	
		Carfentrazone Ethyl	0.15	U	ng/L	P427449	
		Hexabromobenzene**	6.1	U	ng/L	P427449	
		Chlorfenapyr	0.30	U	ng/L	P427449	
		PBB-153**	8.1	U	ng/L	P427449	
		Chlorpyrifos Ethyl	0.30	U	ng/L	P427449	
		Pentabromotoluene**	3.0	U	ng/L	P427449	
		Chlorpyrifos Methyl	0.10	U	ng/L	P427449	
		Tris(2-chloroethyl) phosphate (TCEP)**	71	U	ng/L	P427449	
		Coumaphos	1.1	U	ng/L	P427449	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	29	IV	ng/L	P427449	
		Cyanazine	5.1	U	ng/L	P427449	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.5	U	ng/L	P427449	
							RPD

Field ID: G3NW0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2395769	EPA 8270E	Cyprodinil	0.20	U	ng/L	P427449	
		Tetradecachloro-m-terphenyl**	7.6	U	ng/L	P427449	RPD
		Demeton	3.6	U	ng/L	P427449	
		Diazinon	0.13	U	ng/L	P427449	
		Difenoconazole	0.61	U	ng/L	P427449	
		Dimethenamid	0.10	U	ng/L	P427449	
		Dimethomorph	0.30	U	ng/L	P427449	
		Disulfoton	0.61	U	ng/L	P427449	
		Dithiopyr	2.1	I	ng/L	P427449	
		EPTC	0.51	U	ng/L	P427449	
		Ethion	0.30	U	ng/L	P427449	
		Ethoprop	0.13	U	ng/L	P427449	
		Etridiazole	0.10	U	ng/L	P427449	
		Fenamiphos	0.46	U	ng/L	P427449	
		Fenbuconazole	0.51	U	ng/L	P427449	
		Fipronil	0.97	I	ng/L	P427449	
		Fipronil DesulfinyI**	0.37	I	ng/L	P427449	
		Fipronil Sulfide	3.8		ng/L	P427449	
		Fipronil Sulfone	5.7		ng/L	P427449	
		Fluazifop-P-butyl	0.10	U	ng/L	P427449	
		Fludioxonil	0.10	U	ng/L	P427449	
		Flumioxazin	10	I	ng/L	P427449	
		Flutolanil	0.10	U	ng/L	P427449	
		Fluxapyroxad	0.25	U	ng/L	P427449	
		Fonofos	0.15	U	ng/L	P427449	
		Hexazinone	0.51	U	ng/L	P427449	
		Imazalil	0.66	U	ng/L	P427449	
		Iprodione	0.51	U	ng/L	P427449	
		Loratadine**	0.30	U	ng/L	P427449	
		Malathion	0.36	U	ng/L	P427449	MS, RPD
		Metalaxyl	0.51	U	ng/L	P427449	
		Metolachlor	0.76	U	ng/L	P427449	
		Metribuzin	0.41	U	ng/L	P427449	
		Mevinphos	1.0	U	ng/L	P427449	
		Molinate	0.25	U	ng/L	P427449	
		Myclobutanil	0.36	U	ng/L	P427449	
		Naled	2.5	U	ng/L	P427449	
		Napropamide	0.71	U	ng/L	P427449	
		Norflurazon	1.0	U	ng/L	P427449	
		Oxadiazon	0.36	U	ng/L	P427449	
		Oxyfluorfen	0.20	U	ng/L	P427449	
		Parathion Ethyl	0.15	U	ng/L	P427449	
		Parathion Methyl	0.20	U	ng/L	P427449	
		Pendimethalin	0.76	U	ng/L	P427449	
		Phenytain**	5.4	U	ng/L	P427449	

Field ID: G3NW0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2395769	EPA 8270E	Phorate	0.25	U	ng/L	P427449	
		Prodiamine	1.6		ng/L	P427449	
		Prometon	3.0	U	ng/L	P427449	
		Prometryn	0.36	U	ng/L	P427449	
		Pronamide	0.10	U	ng/L	P427449	
		Propanil	0.10	U	ng/L	P427449	
		Propargite	0.81	U	ng/L	P427449	
		Propiconazole	0.61	U	ng/L	P427449	
		Pyraflufen Ethyl	0.30	U	ng/L	P427449	
		Pyridaben	1.4	U	ng/L	P427449	
		Pyriproxyfen	0.25	U	ng/L	P427449	
		Simazine	2.4		ng/L	P427449	
		Stirophos	0.41	U	ng/L	P427449	RPD
		Sulfentrazone	8.3		ng/L	P427449	
		Tebuconazole	1.4	U	ng/L	P427449	
		Terbufos	0.20	U	ng/L	P427449	
		Terbuthylazine	0.20	U	ng/L	P427449	
		Thiobencarb	0.51	U	ng/L	P427449	RPD
		Triadimefon	0.15	U	ng/L	P427449	

Ref. Method and Comment:

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

EPA 8270E: V - Due to the presence of tris(1-chloro-2-propyl) phosphate (TCPP) in both the Method Blank and the sample.

EPA 8270E: MS accuracy for multiple parameters not assessed due to high content of these parameters in the sample spiked.

Sample Location: Direct Runoff to Choctawhatchee Bay @ City Park **Collection Date/Time: 03/21/2023 11:15**

Field ID: G3NW0002

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2395679	DEP SOP: NU-094-1	Color (true)	61	A	PCU	P427508	
	EPA 180.1 Rev. 2.0	Turbidity	5.8		NTU	P427503	
	EPA 300.0 Rev. 2.1	Chloride	35		mg Cl/L	P427857	
		Sulfate	11		mg SO4/L	P427860	
	SM 2320 B-2011	Total Alkalinity	50		mg CaCO3/L	P427841	
	SM 2540 C-2015	TDS	140		mg/L	P427823	
	SM 2540 D-2015	TSS	2	U	mg/L	P427800	
	SM 4500-F- C-2011	Fluoride	0.067	I	mg F/L	P427606	
2395680	EPA 350.1 Rev. 2.0	Ammonia-N	0.026		mg N/L	P427635	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.32		mg N/L	P428381	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.17		mg N/L	P427864	
	EPA 365.1 Rev. 2.0	Total-P	0.030		mg P/L	P427598	
	SM 5310 B-2011	Organic Carbon	7.4		mg C/L	P427829	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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

Sample Location: Direct Runoff to Choctawhatchee Bay below Oregon Drive **Collection Date/Time: 03/21/2023 11:25**

Field ID: G3NW0001

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2395677	DEP SOP: NU-094-1	Color (true)	62		PCU	P427515	
	EPA 180.1 Rev. 2.0	Turbidity	6.5		NTU	P427503	
	EPA 300.0 Rev. 2.1	Chloride	17		mg Cl/L	P427857	
		Sulfate	8.1		mg SO4/L	P427860	
	SM 2320 B-2011	Total Alkalinity	55		mg CaCO3/L	P427841	
	SM 2540 C-2015	TDS	116	A	mg/L	P428163	
	SM 2540 D-2015	TSS	4	IA	mg/L	P427912	
	SM 4500-F- C-2011	Fluoride	0.067	I	mg F/L	P427606	
2395678	EPA 350.1 Rev. 2.0	Ammonia-N	0.030		mg N/L	P427635	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.32		mg N/L	P428381	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.21		mg N/L	P427864	
	EPA 365.1 Rev. 2.0	Total-P	0.035		mg P/L	P427598	
	SM 5310 B-2011	Organic Carbon	7.5		mg C/L	P427829	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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

Sample Location: UNNAMED LAKE

Collection Date/Time: 03/21/2023 12:45

Field ID: G3NW0223

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2395675	DEP SOP: NU-094-1	Color (true)	12		PCU	P427515	
	EPA 180.1 Rev. 2.0	Turbidity	0.75	I	NTU	P427503	
	EPA 300.0 Rev. 2.1	Chloride	6.9		mg Cl/L	P427857	
		Sulfate	4.7		mg SO4/L	P427860	
	SM 2320 B-2011	Total Alkalinity	4.5		mg CaCO3/L	P427841	
	SM 2540 C-2015	TDS	29		mg/L	P427823	
	SM 2540 D-2015	TSS	3	I	mg/L	P427800	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P427606	
2395676	EPA 350.1 Rev. 2.0	Ammonia-N	0.017		mg N/L	P427635	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.43		mg N/L	P428381	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.37		mg N/L	P427972	
	EPA 365.1 Rev. 2.0	Total-P	0.019		mg P/L	P427598	
	SM 5310 B-2011	Organic Carbon	2.8		mg C/L	P427829	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P427508

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P427515

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P427503

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P427550

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: P427550

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: P427857

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427860

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427635

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P428381

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427864

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427972

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427598

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

Reference Method: EPA 8270E
Batch ID: P427449

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P427449

Component	Result	Code	Units
Atrazine Desethyl	1.3	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.20	U	ng/L
Butylate	0.20	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P427449

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P427449

Component	Result	Code	Units
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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P427449

Component	Result	Code	Units
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	I	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	16	I	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 8270E

Batch ID: P427472

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P427472

Component	Result	Code	Units
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
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P427472

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

Reference Method: EPA 8276

Batch ID: P427472

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

Quality Assurance Report

Method Blank Results

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: P427368

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: 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: P427841

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

Reference Method: SM 2540 C-2015
Batch ID: P427823

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2015
Batch ID: P428163

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P427800

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P427912

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P427606

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P427829

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: P427508

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.1		P	90 - 110

Reference Method: DEP SOP: NU-094-1
Batch ID: P427515

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	92.8		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P427503

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	99.7		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P427550

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	100		P	85 - 115
Iron	104		P	85 - 115
Magnesium	104		P	85 - 115
Potassium	102		P	85 - 115
Sodium	93.7		P	85 - 115
Strontium	96.7		P	85 - 115
Tin	99.8		P	85 - 115
Titanium	99.7		P	85 - 115
Vanadium	97.7		P	85 - 115
Zinc	93.8		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P427550

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	99.1		P	85 - 115
Antimony	102		P	85 - 115
Arsenic	98.2		P	85 - 115
Barium	101		P	85 - 115
Beryllium	95.1		P	85 - 115
Boron	98.7		P	85 - 115
Cadmium	99.5		P	85 - 115
Chromium	99.9		P	85 - 115
Cobalt	96.6		P	85 - 115
Copper	101		P	85 - 115
Lead	102		P	85 - 115
Manganese	97.9		P	85 - 115
Molybdenum	99.0		P	85 - 115
Nickel	100		P	85 - 115
Selenium	97.6		P	85 - 115
Silver	102		P	85 - 115
Thallium	98.8		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427857

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427860

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427635

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P428381

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427864

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427972

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427598

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	98.8		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P427449

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	80.8		P	42 - 162
Acetochlor	87.5		P	69 - 123
Alachlor	82.9		P	65 - 118
Ametryn	125		P	58 - 141
Atrazine	95.7		P	73 - 118
Atrazine Desethyl	111		P	32 - 125
Avobenzone	106		P	40 - 203
Azinphos Methyl	96.1		P	36 - 197
Azoxystrobin	78.7		P	58 - 226
Bromacil	92.0		P	48 - 120

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P427449

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Butylate	69.6		P	27 - 85.0
Caffeine	109		P	40 - 137
Carbophenothion	81.9		P	54 - 132
Carfentrazone Ethyl	93.2		P	60 - 142
Chlorfenapyr	78.2		P	53 - 117
Chlorpyrifos Ethyl	108		P	59 - 116
Chlorpyrifos Methyl	96.2		P	66 - 119
Coumaphos	70.8		P	11 - 234
Cyanazine	195		P	61 - 248
Cyprodinil	93.9		P	50 - 147
Dechlorane 602	86.7		P	50 - 150
Dechlorane 603	93.6		P	50 - 150
Dechlorane Plus	79.5		P	47 - 182
Demeton	83.6		P	30 - 138
Diazinon	102		P	67 - 126
Difenoconazole	147		P	38 - 205
Dimethenamid	77.2		P	57 - 111
Dimethomorph	93.9		P	16 - 212
Disulfoton	101		P	46 - 126
Dithiopyr	78.0		P	62 - 115
EPTC	59.9		P	28 - 80.0
Ethion	32.9		P	24 - 122
Ethoprop	94.7		P	62 - 113
Etridiazole	67.1		P	28 - 92.0
Fenamiphos	79.2		P	57 - 128
Fenbuconazole	123		P	52 - 155
Fipronil	93.9		P	63 - 130
Fipronil Desulfinyl	71.8		P	61 - 130
Fipronil Sulfide	83.7		P	56 - 117
Fipronil Sulfone	74.8		P	52 - 118
Fluazifop-P-butyl	97.5		P	61 - 128
Fludioxonil	74.6		P	59 - 129
Flumioxazin	53.7		P	30 - 250
Flutolanil	92.9		P	53 - 127
Fluxapyroxad	60.4		P	42 - 132
Fonofos	101		P	61 - 110
Hexabromobenzene	102		P	50 - 150
Hexazinone	93.6		P	46 - 139
Imazalil	87.7		P	40 - 139
Iprodione	75.8		P	40 - 146
Loratadine	92.3		P	10 - 224
Malathion	85.8		P	61 - 135
Metalaxyl	79.3		P	58 - 121
Metolachlor	90.8		P	64 - 118
Metribuzin	116		P	45 - 245
Mevinphos	98.1		P	49 - 118
Molinate	74.5		P	42 - 92.0
Myclobutanil	88.4		P	55 - 127
Naled	77.3		P	10 - 114
Napropamide	60.8		P	39 - 121
Norflurazon	61.0		P	55 - 129
Octinoxate	109		P	26 - 166

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P427449

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Oxadiazon	71.0		P	54 - 115
Oxybenzone	113		P	49 - 135
Oxyfluorfen	92.0		P	64 - 139
Parathion Ethyl	107		P	70 - 111
Parathion Methyl	102		P	76 - 136
PBB-153	93.7		P	50 - 150
PBDE-47	108		P	41 - 148
PBDE-99	95.7		P	38 - 147
Pendimethalin	107		P	52 - 118
Pentabromotoluene	99.0		P	50 - 150
Phenytoin	15.6		P	10 - 162
Phorate	84.6		P	40 - 122
Prodiamine	42.0		P	26 - 141
Prometon	88.7		P	54 - 122
Prometryn	95.5		P	61 - 128
Pronamide	103		P	72 - 121
Propanil	102		P	45 - 144
Propargite	42.2		P	10 - 199
Propiconazole	66.7		P	56 - 127
Pyraflufen Ethyl	58.7		P	56 - 140
Pyridaben	109		P	26 - 211
Pyriproxyfen	159		P	33 - 194
Simazine	92.4		P	67 - 121
Stiophos	46.9		P	20 - 142
Sulfentrazone	65.6		P	21 - 144
Tebuconazole	38.1		P	10 - 122
Terbufos	103		P	60 - 129
Terbutylazine	93.3		P	69 - 113
Tetradecachloro-m-terphenyl	107		P	70 - 200
Thiobencarb	81.1		P	51 - 120
Tri-o-cresyl Phosphate	116		P	49 - 150
Triadimefon	84.1		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	118		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	102		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	121		P	70 - 180

Reference Method: EPA 8270E

Batch ID: P427472

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	52.0		P	10 - 92.0
Alpha-BHC	79.9		P	75 - 107
Alpha-Chlordane	70.4		P	50 - 108
Beta-BHC	97.2		P	36 - 138
Beta-Cyfluthrin	92.8		P	20 - 161
Bifenthrin	59.0		P	10 - 119
Chlorothalonil	84.3		P	26 - 186
Cis-Nonachlor	67.7		P	42 - 119
Cypermethrin	86.1		P	22 - 150
Dacthal	82.4		P	72 - 119
DDD-p,p'	73.7		P	45 - 107
DDE-p,p'	69.1		P	48 - 106

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P427472

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
DDT-p,p'	61.6		P	48 - 110
Delta-BHC	89.4		P	54 - 140
Deltamethrin	97.4		P	22 - 189
Dichlobenil	59.3		P	36 - 117
Dicofol	59.4		P	46 - 155
Dieldrin	69.3		P	54 - 110
Endosulfan I	70.6		P	59 - 105
Endosulfan II	76.8		P	51 - 118
Endosulfan Sulfate	102		P	57 - 121
Endrin	71.7		P	10 - 120
Endrin Aldehyde	65.6		P	34 - 118
Endrin Ketone	69.3		P	69 - 177
Esfenvalerate	84.0		P	23 - 168
Ethalfuralin	67.0		P	49 - 99.0
Fenpropathrin	63.8		P	34 - 117
Gamma-BHC	112		P	72 - 117
Gamma-Chlordane	64.6		P	43 - 106
Heptachlor	79.0		P	41 - 98.0
Heptachlor Epoxide	77.5		P	57 - 106
Hexachlorobenzene	53.5		P	36 - 99.0
Kepone	88.7		P	16 - 215
Lambda-Cyhalothrin	68.3		P	21 - 177
Methoprene	53.8		P	10 - 119
Methoxychlor	83.2		P	60 - 112
MGK-264	83.3		P	26 - 122
Mirex	52.1		P	10 - 169
Oxychlordane	61.4		P	43 - 105
PCB-1016	60.4		P	48 - 112
PCB-1260	57.6		P	44 - 118
Permethrin	78.0		P	24 - 148
Phenothrin	57.6		P	10 - 106
Piperonyl Butoxide	88.9		P	10 - 139
Prallethrin	75.6		P	17 - 109
Tau-Fluvalinate	69.7		P	13 - 131
Tetramethrin	93.6		P	10 - 132
Trans-Nonachlor	64.9		P	44 - 106
Triclosan Methyl	59.9		P	59 - 109
Trifluralin	67.4		P	44 - 101

Reference Method: EPA 8276

Batch ID: P427472

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	61.4		P	61 - 116
Toxaphene	62.0		P	48 - 124

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P427297

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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: P427368

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	97.8		P	40 - 150
AMPA	104		P	40 - 150
Endothall	101		P	40 - 150
Glufosinate	99.5		P	40 - 150
Glyphosate	105		P	40 - 150
Sucralose	112		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: P427841

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.2		P	94 - 106

Reference Method: SM 2540 C-2015
Batch ID: P427823

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	98.8		P	90 - 110

Reference Method: SM 2540 C-2015
Batch ID: P428163

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	97.1		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P427800

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	92.7		P	85 - 106

Reference Method: SM 2540 D-2015
Batch ID: P427912

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	102		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P427606

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

Reference Method: SM 5310 B-2011
Batch ID: P427829

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P427550

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2394995	Calcium	99.0		P	80 - 120
2394995	Iron	103		P	80 - 120
2394995	Magnesium	98.2		P	80 - 120
2394995	Potassium	100		P	80 - 120
2394995	Sodium	97.4		P	80 - 120
2394995	Strontium	96.9		P	80 - 120
2394995	Tin	99.5		P	80 - 120
2394995	Titanium	100		P	80 - 120
2394995	Vanadium	97.7		P	80 - 120
2394995	Zinc	93.0		P	80 - 120
2395368	Calcium	99.7		P	80 - 120
2395368	Iron	100	102	P/P	80 - 120
2395368	Magnesium	98.3	101	P/P	80 - 120
2395368	Potassium	97.0	98.8	P/P	80 - 120
2395368	Sodium	94.3		P	80 - 120
2395368	Strontium	95.5	96.2	P/P	80 - 120
2395368	Tin	97.5	98.9	P/P	80 - 120
2395368	Titanium	98.8	99.9	P/P	80 - 120
2395368	Vanadium	96.5	97.3	P/P	80 - 120
2395368	Zinc	91.7	93.5	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P427550

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2394995	Aluminum	98.7		P	80 - 120
2394995	Antimony	101		P	80 - 120
2394995	Arsenic	97.4		P	80 - 120
2394995	Barium	100		P	80 - 120
2394995	Beryllium	95.8		P	80 - 120
2394995	Boron	103		P	80 - 120
2394995	Cadmium	99.9		P	80 - 120
2394995	Chromium	97.4		P	80 - 120
2394995	Cobalt	97.5		P	80 - 120
2394995	Copper	95.9		P	80 - 120
2394995	Lead	99.3		P	80 - 120
2394995	Manganese	99.6		P	80 - 120
2394995	Molybdenum	100		P	80 - 120
2394995	Nickel	95.7		P	80 - 120
2394995	Selenium	94.2		P	80 - 120
2394995	Silver	104		P	80 - 120
2394995	Thallium	97.0		P	80 - 120
2395368	Aluminum	99.4	97.2	P/P	80 - 120
2395368	Antimony	103	101	P/P	80 - 120
2395368	Arsenic	99.1	97.8	P/P	80 - 120
2395368	Barium	101	98.7	P/P	80 - 120
2395368	Beryllium	95.2	92.1	P/P	80 - 120
2395368	Boron	100	94.8	P/P	80 - 120
2395368	Cadmium	102	98.5	P/P	80 - 120
2395368	Chromium	100	98.0	P/P	80 - 120
2395368	Cobalt	97.3	96.3	P/P	80 - 120
2395368	Copper	99.3	97.7	P/P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P427550

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2395368	Lead	102	101	P/P	80 - 120
2395368	Manganese	99.8	96.7	P/P	80 - 120
2395368	Molybdenum	101	99.0	P/P	80 - 120
2395368	Nickel	101	98.1	P/P	80 - 120
2395368	Selenium	98.5	97.1	P/P	80 - 120
2395368	Silver	103	101	P/P	80 - 120
2395368	Thallium	100	101	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427857

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2395438	Chloride	96.3		P	90 - 110
2395677	Chloride	98.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427860

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2395438	Sulfate	98.4		P	90 - 110
2395677	Sulfate	96.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427635

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2395639	Ammonia-N	99.2	97.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P428381

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2396676	Kjeldahl Nitrogen	97.2	95.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427864

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2395395	NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427972

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2396123	NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427598

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2395639	Total-P	101	101	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P427449

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2395032	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	85.8	90.2	P/P	26 - 165
2395032	Acetochlor	107	103	P/P	67 - 124
2395032	Alachlor	99.9	95.0	P/P	60 - 120
2395032	Ametryn	129	104	P/P	54 - 216
2395032	Atrazine Desethyl	117	97.0	P/P	15 - 122
2395032	Avobenzene	108	120	P/P	37 - 178
2395032	Azinphos Methyl	120	119	P/P	40 - 292
2395032	Azoxystrobin	104	114	P/P	35 - 220
2395032	Butylate	70.5	67.1	P/P	20 - 83.0
2395032	Caffeine	117	111	P/P	10 - 194
2395032	Carbophenothion	89.3	79.3	P/P	57 - 127
2395032	Carfentrazone Ethyl	113	109	P/P	51 - 141
2395032	Chlorfenapyr	80.9	82.4	P/P	46 - 111
2395032	Chlorpyrifos Ethyl	96.0	101	P/P	52 - 120
2395032	Chlorpyrifos Methyl	106	104	P/P	63 - 119
2395032	Coumaphos	82.6	88.1	P/P	10 - 228
2395032	Cyanazine	187	210	P/P	59 - 241
2395032	Cyprodinil	113	94.2	P/P	47 - 146
2395032	Dechlorane 602	72.8	78.0	P/P	50 - 150
2395032	Dechlorane 603	81.0	89.9	P/P	50 - 150
2395032	Dechlorane Plus	52.5	82.7	P/P	50 - 150
2395032	Demeton	82.6	89.8	P/P	40 - 136
2395032	Diazinon	116	114	P/P	69 - 132
2395032	Difenoconazole	113	115	P/P	57 - 258
2395032	Dimethenamid	105	94.6	P/P	54 - 110
2395032	Dimethomorph	153	185	P/P	28 - 210
2395032	Disulfoton	97.8	108	P/P	43 - 133
2395032	Dithiopyr	105	98.2	P/P	39 - 116
2395032	EPTC	65.0	62.3	P/P	20 - 78.0
2395032	Ethion	65.4	67.2	P/P	17 - 119
2395032	Ethoprop	89.2	91.4	P/P	66 - 120
2395032	Etridiazole	73.6	70.3	P/P	28 - 96.0
2395032	Fenamiphos	72.1	68.2	P/P	41 - 126
2395032	Fenbuconazole	90.0	93.7	P/P	42 - 169
2395032	Fipronil	111	111	P/P	61 - 132
2395032	Fipronil Desulfinyl	100	92.9	P/P	56 - 132
2395032	Fipronil Sulfide	92.3	83.5	P/P	48 - 119
2395032	Fipronil Sulfone	81.6	71.3	P/P	42 - 131
2395032	Fluazifop-P-butyl	115	98.6	P/P	53 - 131
2395032	Fludioxonil	100	90.6	P/P	56 - 127
2395032	Flumioxazin	104	110	P/P	19 - 300
2395032	Flutolanil	108	89.0	P/P	41 - 127
2395032	Fluxapyroxad	91.6	85.0	P/P	42 - 172
2395032	Fonofos	95.2	95.8	P/P	59 - 113
2395032	Hexabromobenzene	95.2	101	P/P	50 - 150
2395032	Hexazinone	91.6	93.1	P/P	66 - 122
2395032	Imazail	77.9	81.3	P/P	21 - 283
2395032	Iprodione	113	97.3	P/P	43 - 150
2395032	Loratadine	144	165	P/P	23 - 201
2395032	Malathion	90.0	37.6	P/F	58 - 136
2395032	Metribuzin	93.4	95.1	P/P	58 - 294
2395032	Mevinphos	89.2	88.5	P/P	50 - 126

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P427449

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2395032	Molinate	70.9	72.7	P/P	42 - 93.0
2395032	Myclobutanil	104	100	P/P	55 - 125
2395032	Naled	80.1	72.4	P/P	18 - 200
2395032	Napropamide	96.8	82.4	P/P	39 - 110
2395032	Octinoxate	81.8	83.4	P/P	21 - 159
2395032	Oxadiazon	89.5	87.5	P/P	43 - 112
2395032	Oxybenzone	104	111	P/P	41 - 142
2395032	Oxyfluorfen	119	115	P/P	64 - 153
2395032	Parathion Ethyl	91.3	101	P/P	69 - 114
2395032	Parathion Methyl	96.0	105	P/P	79 - 139
2395032	PBB-153	95.9	99.0	P/P	50 - 150
2395032	PBDE-47	106	114	P/P	27 - 144
2395032	PBDE-99	109	118	P/P	18 - 150
2395032	Pendimethalin	115	112	P/P	50 - 139
2395032	Pentabromotoluene	81.1	82.9	P/P	50 - 150
2395032	Phenytoin	39.3	47.4	P/P	10 - 146
2395032	Phorate	85.5	86.8	P/P	54 - 161
2395032	Prodiamine	55.2	55.2	P/P	30 - 161
2395032	Prometon	95.6	116	P/P	45 - 134
2395032	Prometryn	120	111	P/P	45 - 137
2395032	Pronamide	110	110	P/P	65 - 133
2395032	Propanil	121	124	P/P	49 - 142
2395032	Propargite	79.1	65.7	P/P	10 - 203
2395032	Propiconazole	115	99.0	P/P	38 - 146
2395032	Pyraflufen Ethyl	96.6	82.6	P/P	34 - 153
2395032	Pyridaben	112	143	P/P	12 - 192
2395032	Pyriproxyfen	100	92.9	P/P	33 - 180
2395032	Simazine	95.2	82.1	P/P	51 - 157
2395032	Stirophos	77.7	22.1	P/P	10 - 128
2395032	Sulfentrazone	107	105	P/P	53 - 186
2395032	Tebuconazole	66.1	64.8	P/P	10 - 133
2395032	Terbufos	101	98.9	P/P	65 - 139
2395032	Terbutylazine	102	103	P/P	66 - 117
2395032	Tetradecachloro-m-terphenyl	96.8	155	P/P	70 - 200
2395032	Thiobencarb	94.5	57.3	P/P	51 - 119
2395032	Tri-o-cresyl Phosphate	106	107	P/P	31 - 144
2395032	Triadimefon	102	93.6	P/P	48 - 119
2395032	Tris(1-chloro-2-propyl) phosphate (TCPP)	109	116	P/P	50 - 150
2395032	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	95.2	104	P/P	50 - 150
2395032	Tris(2-chloroethyl) phosphate (TCEP)	104	113	P/P	70 - 180

Reference Method: EPA 8270E

Batch ID: P427472

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2395616	Aldrin	45.9	47.0	P/P	20 - 82.0
2395616	Alpha-BHC	77.1	78.3	P/P	71 - 109
2395616	Alpha-Chlordane	70.6	71.0	P/P	42 - 106
2395616	Beta-BHC	88.3	87.4	P/P	69 - 180
2395616	Beta-Cyfluthrin	91.4	82.3	P/P	18 - 175
2395616	Bifenthrin	68.4	66.9	P/P	21 - 128
2395616	Chlorothalonil	2.37	1.05	F/F	10 - 300

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P427472

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2395616	Cis-Nonachlor	57.3	56.1	P/P	34 - 106
2395616	Cypermethrin	86.6	76.1	P/P	22 - 158
2395616	Dacthal	81.7	82.9	P/P	54 - 116
2395616	DDD-p,p'	61.0	56.0	P/P	34 - 107
2395616	DDE-p,p'	67.8	63.9	P/P	33 - 110
2395616	DDT-p,p'	58.8	56.1	P/P	50 - 122
2395616	Delta-BHC	87.4	83.6	P/P	77 - 193
2395616	Deltamethrin	72.0	97.0	P/P	10 - 195
2395616	Dichlobenil	37.6	46.5	P/P	25 - 113
2395616	Dicofol	55.5	55.7	P/P	38 - 247
2395616	Dieldrin	68.4	64.0	P/P	45 - 118
2395616	Endosulfan I	70.5	68.7	P/P	51 - 106
2395616	Endosulfan II	67.7	63.0	P/P	37 - 122
2395616	Endosulfan Sulfate	87.9	75.2	P/P	43 - 132
2395616	Endrin	68.9	69.3	P/P	29 - 101
2395616	Endrin Aldehyde	44.8	47.0	P/P	19 - 110
2395616	Endrin Ketone	51.1	47.8	F/F	60 - 140
2395616	Esfenvalerate	86.0	80.0	P/P	26 - 199
2395616	Ethalfuralin	69.3	64.9	P/P	45 - 99.0
2395616	Fenpropathrin	61.3	52.0	P/P	35 - 120
2395616	Gamma-BHC	124	116	P/P	63 - 128
2395616	Gamma-Chlordane	65.6	62.0	P/P	40 - 104
2395616	Heptachlor	101	93.5	F/P	36 - 97.0
2395616	Heptachlor Epoxide	76.9	76.2	P/P	49 - 184
2395616	Hexachlorobenzene	53.9	59.1	P/P	39 - 96.0
2395616	Kepone	47.0	37.0	P/P	10 - 217
2395616	Lambda-Cyhalothrin	82.3	82.4	P/P	21 - 193
2395616	Methoprene	64.8	59.3	P/P	20 - 106
2395616	Methoxychlor	81.6	81.4	P/P	53 - 118
2395616	MGK-264	32.0	39.6	F/F	40 - 118
2395616	Mirex	54.7	47.6	P/P	26 - 92.0
2395616	Oxychlordane	67.9	62.7	P/P	44 - 99.0
2395616	Permethrin	78.1	75.7	P/P	33 - 182
2395616	Phenothrin	77.4	75.6	P/P	10 - 129
2395616	Piperonyl Butoxide	74.9	81.2	P/P	10 - 211
2395616	Prallethrin	67.8	71.9	P/P	24 - 113
2395616	Tau-Fluvalinate	62.2	73.2	P/P	14 - 149
2395616	Tetramethrin	104	110	P/P	17 - 151
2395616	Trans-Nonachlor	62.2	62.0	P/P	42 - 102
2395616	Triclosan Methyl	56.7	53.8	P/P	48 - 108
2395616	Trifluralin	69.4	66.6	P/P	47 - 96.0
2395622	PCB-1016	66.8	64.2	P/P	46 - 111
2395622	PCB-1260	59.5	60.5	P/P	45 - 114

Reference Method: EPA 8276
Batch ID: P427472

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2395622	Chlordane	63.8	54.4	P/P	53 - 126
2395622	Toxaphene	67.5	56.9	P/P	56 - 211

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	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
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: P427368

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2395030	Acesulfame K	31.0	31.0	F/F	40 - 150
2395030	AMPA	64.6	65.7	P/P	40 - 150
2395030	Endothall	101	103	P/P	40 - 150
2395030	Glufosinate	59.1	60.4	P/P	40 - 150
2395030	Glyphosate	109	86.4	P/P	40 - 150
2395030	Sucralose	116	124	P/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	MCCPP	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

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P427453

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2394681	Triclopyr	110	112	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P427606

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2395638	Fluoride	102	103	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P427829

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2395314	Organic Carbon	93.8	95.5	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P427508

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395679	Color (true)	7.25	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P427515

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395638	Color (true)	10.6	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P427503

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395641	Turbidity	0.574	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P427550

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395368	Calcium	1.27	Spike	P	0 - 20
2395368	Iron	1.77	Spike	P	0 - 20
2395368	Magnesium	1.76	Spike	P	0 - 20
2395368	Potassium	0.937	Spike	P	0 - 20
2395368	Sodium	1.03	Spike	P	0 - 20
2395368	Strontium	0.684	Spike	P	0 - 20
2395368	Tin	1.48	Spike	P	0 - 20
2395368	Titanium	1.11	Spike	P	0 - 20
2395368	Vanadium	0.915	Spike	P	0 - 20
2395368	Zinc	1.94	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P427550

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395368	Aluminum	2.21	Spike	P	0 - 20
2395368	Antimony	2.26	Spike	P	0 - 20
2395368	Arsenic	1.37	Spike	P	0 - 20
2395368	Barium	2.25	Spike	P	0 - 20
2395368	Beryllium	3.29	Spike	P	0 - 20
2395368	Boron	2.81	Spike	P	0 - 20
2395368	Cadmium	3.54	Spike	P	0 - 20
2395368	Chromium	2.22	Spike	P	0 - 20
2395368	Cobalt	1.08	Spike	P	0 - 20
2395368	Copper	1.66	Spike	P	0 - 20
2395368	Lead	1.01	Spike	P	0 - 20
2395368	Manganese	1.59	Spike	P	0 - 20
2395368	Molybdenum	2.13	Spike	P	0 - 20
2395368	Nickel	2.58	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P427550

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395368	Selenium	1.38	Spike	P	0 - 20
2395368	Silver	2.35	Spike	P	0 - 20
2395368	Thallium	0.599	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427857

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395438	Chloride	0.318	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427635

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395639	Ammonia-N	1.31	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P428381

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396676	Kjeldahl Nitrogen	1.37	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427864

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395395	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427972

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396123	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427598

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395639	Total-P	0.0	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P427449

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P427449

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395032	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	4.95	Spike	P	0 - 37
2395032	Acetochlor	4.37	Spike	P	0 - 28
2395032	Alachlor	4.95	Spike	P	0 - 30
2395032	Ametryn	14.4	Spike	P	0 - 32
2395032	Atrazine	4.09	Spike	P	0 - 41
2395032	Atrazine Desethyl	18.4	Spike	P	0 - 36
2395032	Avobenzone	10.8	Spike	P	0 - 36
2395032	Azinphos Methyl	0.795	Spike	P	0 - 75
2395032	Azoxystrobin	8.21	Spike	P	0 - 39
2395032	Bromacil	1.64	Spike	P	0 - 33
2395032	Butylate	4.88	Spike	P	0 - 44
2395032	Caffeine	5.08	Spike	P	0 - 74
2395032	Carbophenothion	11.8	Spike	P	0 - 25
2395032	Carfentrazone Ethyl	3.99	Spike	P	0 - 27
2395032	Chlorfenapyr	1.86	Spike	P	0 - 24
2395032	Chlorpyrifos Ethyl	5.43	Spike	P	0 - 26
2395032	Chlorpyrifos Methyl	2.29	Spike	P	0 - 26
2395032	Coumaphos	6.39	Spike	P	0 - 28
2395032	Cyanazine	11.8	Spike	P	0 - 48
2395032	Cyprodinil	17.8	Spike	P	0 - 29
2395032	Dechlorane 602	6.80	Spike	P	0 - 30
2395032	Dechlorane 603	10.4	Spike	P	0 - 30
2395032	Dechlorane Plus	44.6	Spike	F	0 - 30
2395032	Demeton	8.36	Spike	P	0 - 33
2395032	Diazinon	1.28	Spike	P	0 - 29
2395032	Difenoconazole	1.45	Spike	P	0 - 34
2395032	Dimethenamid	10.6	Spike	P	0 - 39
2395032	Dimethomorph	19.1	Spike	P	0 - 51
2395032	Disulfoton	10.0	Spike	P	0 - 30
2395032	Dithiopyr	6.32	Spike	P	0 - 26
2395032	EPTC	4.10	Spike	P	0 - 43
2395032	Ethion	2.74	Spike	P	0 - 79
2395032	Ethoprop	2.46	Spike	P	0 - 29
2395032	Etridiazole	4.64	Spike	P	0 - 33
2395032	Fenamiphos	5.49	Spike	P	0 - 40
2395032	Fenbuconazole	4.05	Spike	P	0 - 74
2395032	Fipronil	0.186	Spike	P	0 - 29
2395032	Fipronil Desulfanyl	7.38	Spike	P	0 - 32
2395032	Fipronil Sulfide	9.96	Spike	P	0 - 30
2395032	Fipronil Sulfone	13.5	Spike	P	0 - 33
2395032	Fluazifop-P-butyl	15.1	Spike	P	0 - 38
2395032	Fludioxonil	10.3	Spike	P	0 - 29
2395032	Flumioxazin	5.42	Spike	P	0 - 51
2395032	Flutolanil	19.5	Spike	P	0 - 25
2395032	Fluxapyroxad	7.46	Spike	P	0 - 45
2395032	Fonofos	0.628	Spike	P	0 - 27
2395032	Hexabromobenzene	5.45	Spike	P	0 - 30
2395032	Hexazinone	1.12	Spike	P	0 - 30
2395032	Imazalil	4.21	Spike	P	0 - 100
2395032	Iprodione	15.3	Spike	P	0 - 33
2395032	Loratadine	13.8	Spike	P	0 - 56

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P427449

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395032	Malathion	82.2	Spike	F	0 - 37
2395032	Metalaxyl	2.20	Spike	P	0 - 40
2395032	Metolachlor	8.04	Spike	P	0 - 29
2395032	Metribuzin	1.83	Spike	P	0 - 45
2395032	Mevinphos	0.776	Spike	P	0 - 29
2395032	Molinate	2.54	Spike	P	0 - 33
2395032	Myclobutanil	3.68	Spike	P	0 - 26
2395032	Naled	10.2	Spike	P	0 - 37
2395032	Napropamide	16.0	Spike	P	0 - 44
2395032	Norflurazon	15.3	Spike	P	0 - 30
2395032	Octinoxate	1.91	Spike	P	0 - 45
2395032	Oxadiazon	2.19	Spike	P	0 - 28
2395032	Oxybenzone	6.63	Spike	P	0 - 46
2395032	Oxyfluorfen	2.89	Spike	P	0 - 28
2395032	Parathion Ethyl	10.3	Spike	P	0 - 31
2395032	Parathion Methyl	9.12	Spike	P	0 - 29
2395032	PBB-153	3.12	Spike	P	0 - 30
2395032	PBDE-47	7.20	Spike	P	0 - 36
2395032	PBDE-99	7.49	Spike	P	0 - 40
2395032	Pendimethalin	2.48	Spike	P	0 - 33
2395032	Pentabromotoluene	2.25	Spike	P	0 - 30
2395032	Phenytol	18.6	Spike	P	0 - 100
2395032	Phorate	1.45	Spike	P	0 - 36
2395032	Prodiamine	0.122	Spike	P	0 - 71
2395032	Prometon	19.0	Spike	P	0 - 36
2395032	Prometryn	7.69	Spike	P	0 - 28
2395032	Pronamide	0.542	Spike	P	0 - 24
2395032	Propanil	2.98	Spike	P	0 - 28
2395032	Propargite	18.4	Spike	P	0 - 43
2395032	Propiconazole	15.2	Spike	P	0 - 33
2395032	Pyraflufen Ethyl	15.7	Spike	P	0 - 29
2395032	Pyridaben	24.3	Spike	P	0 - 30
2395032	Pyriproxyfen	7.61	Spike	P	0 - 79
2395032	Simazine	14.8	Spike	P	0 - 29
2395032	Stirophos	111	Spike	F	0 - 61
2395032	Sulfentrazone	1.20	Spike	P	0 - 33
2395032	Tebuconazole	1.98	Spike	P	0 - 69
2395032	Terbufos	2.05	Spike	P	0 - 29
2395032	Terbuthylazine	1.11	Spike	P	0 - 32
2395032	Tetradecachloro-m-terphenyl	46.4	Spike	F	0 - 30
2395032	Thiobencarb	49.0	Spike	F	0 - 26
2395032	Tri-o-cresyl Phosphate	0.546	Spike	P	0 - 33
2395032	Triadimefon	8.44	Spike	P	0 - 28
2395032	Tris(1-chloro-2-propyl) phosphate (TCPP)	6.16	Spike	P	0 - 30
2395032	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	8.81	Spike	P	0 - 30
2395032	Tris(2-chloroethyl) phosphate (TCEP)	8.95	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P427472

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395616	Aldrin	2.27	Spike	P	0 - 41
2395616	Alpha-BHC	1.44	Spike	P	0 - 25
2395616	Alpha-Chlordane	0.490	Spike	P	0 - 33
2395616	Beta-BHC	1.05	Spike	P	0 - 36
2395616	Beta-Cyfluthrin	10.4	Spike	P	0 - 42
2395616	Bifenthrin	2.20	Spike	P	0 - 53
2395616	Chlorothalonil	76.7	Spike	F	0 - 71
2395616	Cis-Nonachlor	2.07	Spike	P	0 - 29
2395616	Cypermethrin	12.9	Spike	P	0 - 40
2395616	Dacthal	1.45	Spike	P	0 - 26
2395616	DDD-p,p'	8.48	Spike	P	0 - 39
2395616	DDE-p,p'	5.96	Spike	P	0 - 33
2395616	DDT-p,p'	4.72	Spike	P	0 - 40
2395616	Delta-BHC	4.51	Spike	P	0 - 37
2395616	Deltamethrin	29.6	Spike	P	0 - 100
2395616	Dichlobenil	21.3	Spike	P	0 - 40
2395616	Dicofol	0.414	Spike	P	0 - 31
2395616	Dieldrin	6.60	Spike	P	0 - 27
2395616	Endosulfan I	2.63	Spike	P	0 - 23
2395616	Endosulfan II	7.26	Spike	P	0 - 28
2395616	Endosulfan Sulfate	15.6	Spike	P	0 - 38
2395616	Endrin	0.509	Spike	P	0 - 63
2395616	Endrin Aldehyde	4.86	Spike	P	0 - 60
2395616	Endrin Ketone	6.63	Spike	P	0 - 37
2395616	Esfenvalerate	7.25	Spike	P	0 - 52
2395616	Ethalfuralin	6.58	Spike	P	0 - 23
2395616	Fenpropathrin	16.4	Spike	P	0 - 32
2395616	Gamma-BHC	7.08	Spike	P	0 - 17
2395616	Gamma-Chlordane	5.68	Spike	P	0 - 40
2395616	Heptachlor	7.54	Spike	P	0 - 29
2395616	Heptachlor Epoxide	0.943	Spike	P	0 - 25
2395616	Hexachlorobenzene	9.09	Spike	P	0 - 36
2395616	Kepone	23.7	Spike	P	0 - 93
2395616	Lambda-Cyhalothrin	0.0607	Spike	P	0 - 55
2395616	Methoprene	8.88	Spike	P	0 - 53
2395616	Methoxychlor	0.247	Spike	P	0 - 29
2395616	MGK-264	21.2	Spike	P	0 - 35
2395616	Mirex	13.8	Spike	P	0 - 46
2395616	Oxychlordane	8.05	Spike	P	0 - 29
2395616	Permethrin	3.20	Spike	P	0 - 44
2395616	Phenothrin	2.30	Spike	P	0 - 56
2395616	Piperonyl Butoxide	8.08	Spike	P	0 - 100
2395616	Prallethrin	5.96	Spike	P	0 - 42
2395616	Tau-Fluvalinate	16.4	Spike	P	0 - 54
2395616	Tetramethrin	5.62	Spike	P	0 - 51
2395616	Trans-Nonachlor	0.340	Spike	P	0 - 37
2395616	Triclosan Methyl	5.28	Spike	P	0 - 31
2395616	Trifluralin	4.16	Spike	P	0 - 30
2395622	PCB-1016	3.92	Spike	P	0 - 32
2395622	PCB-1260	1.56	Spike	P	0 - 31

Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P427472

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395622	Chlordane	15.8	Spike	P	0 - 25
2395622	Toxaphene	17.0	Spike	P	0 - 26

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: P427368

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395030	Acesulfame K	0.0400	Spike	P	0 - 30
2395030	AMPA	1.61	Spike	P	0 - 30
2395030	Endothall	2.08	Spike	P	0 - 30
2395030	Glufosinate	2.18	Spike	P	0 - 30
2395030	Glyphosate	22.8	Spike	P	0 - 30
2395030	Sucralose	7.03	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
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

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	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	MCPPP	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: P427841

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396464	Total Alkalinity	0.318	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015

Batch ID: P427823

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395432	TDS	1.12	Sample	P	0 - 10

Reference Method: SM 2540 C-2015

Batch ID: P428163

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395677	TDS	1.72	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011

Batch ID: P427606

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395638	Fluoride	0.509	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011

Batch ID: P427829

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395314	Organic Carbon	1.55	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2395757
Field Sample ID: G3NW0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	58.8	P	30 - 160

Lab Sample ID: 2395758
Field Sample ID: G3NW0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	99.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	80.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	84.0	P	30 - 160
EPA 8321B	Diuron-d6	66.9	P	30 - 160
EPA 8321B	Endothall-d6	87.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	69.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	69.3	P	30 - 160
EPA 8321B	Primidone-d5	93.2	P	30 - 160
EPA 8321B	Sucralose-d6	92.2	P	30 - 160

Lab Sample ID: 2395759
Field Sample ID: G3NW0208

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	110	P	30 - 160
EPA 8321B	Acetaminophen-d4	91.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	73.8	P	30 - 160
EPA 8321B	Diuron-d6	61.0	P	30 - 160
EPA 8321B	Endothall-d6	83.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	75.6	P	30 - 160
EPA 8321B	Ibuprofen-d3	72.8	P	30 - 160
EPA 8321B	Primidone-d5	108	P	30 - 160
EPA 8321B	Sucralose-d6	91.6	P	30 - 160

Lab Sample ID: 2395768
Field Sample ID: G3NW0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	69.4	P	29 - 130
EPA 8270E	Decachlorobiphenyl	91.5	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	65.2	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	58.5	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	44.3	P	30 - 101
EPA 8276	PCNB	80.1	P	48 - 121

Lab Sample ID: 2395769
Field Sample ID: G3NW0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	92.1	P	20 - 200
EPA 8270E	Simazine-d10	99.0	P	62 - 142
EPA 8270E	Terbufos-d10	95.6	P	58 - 132
EPA 8270E	Terphenyl-d14	99.4	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A118137

Included Lab Sample IDs: 2395675, 2395677, 2395679

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

Reference Method: DEP SOP: NU-094-1

Run ID: A118140

Included Lab Sample IDs: 2395679

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	94.8	95.1	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A118143

Included Lab Sample IDs: 2395675, 2395677

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	95.0	95.5	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A118146

Included Lab Sample IDs: 2395758, 2395759

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	98.6	89.9	P/P	60 - 160
Endothall	105	106	P/P	60 - 160
Glufosinate	83.4	84.9	P/P	60 - 160
Glyphosate	90.6	87.4	P/P	60 - 160

Reference Method: SM 4500-F- C-2011

Run ID: A118170

Included Lab Sample IDs: 2395675, 2395677, 2395679

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A118183

Included Lab Sample IDs: 2395676, 2395678, 2395680

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A118193

Included Lab Sample IDs: 2395770

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.0	98.4	P/P	90 - 110
Antimony	101	100	P/P	90 - 110
Arsenic	97.4	96.4	P/P	90 - 110
Barium	98.7	97.8	P/P	90 - 110
Beryllium	98.3	96.4	P/P	90 - 110
Boron	96.1	104	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A118193

Included Lab Sample IDs: 2395770

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cadmium	97.7	98.8	P/P	90 - 110
Chromium	97.3	96.0	P/P	90 - 110
Copper	96.6	94.9	P/P	90 - 110
Lead	101	99.6	P/P	90 - 110
Manganese	99.7	99.0	P/P	90 - 110
Molybdenum	97.5	97.0	P/P	90 - 110
Nickel	97.6	95.1	P/P	90 - 110
Selenium	98.4	98.3	P/P	90 - 110
Silver	101	101	P/P	90 - 110
Thallium	103	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A118211

Included Lab Sample IDs: 2395676, 2395678, 2395680

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

Reference Method: EPA 8270E

Run ID: A118219

Included Lab Sample IDs: 2395769

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	86.3		P	80 - 120
Avobenzone	91.7		P	80 - 120
Dechlorane 602	85.3		P	80 - 120
Dechlorane 603	86.8		P	80 - 120
Dechlorane Plus	91.7		P	80 - 120
Hexabromobenzene	87.0		P	80 - 120
Octinoxate	82.0		P	80 - 120
Oxybenzone	94.0		P	80 - 120
PBB-153	88.7		P	80 - 120
PBDE-47	92.6		P	80 - 120
PBDE-99	99.7		P	80 - 120
Pentabromotoluene	82.1		P	80 - 120
Tetradecachloro-m-terphenyl	103		P	80 - 120
Tri-o-cresyl Phosphate	93.6		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	91.2		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	93.9		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	94.1		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A118222

Included Lab Sample IDs: 2395770

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cobalt	96.7	97.8	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A118247

Included Lab Sample IDs: 2395675, 2395677, 2395679

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	100	P/P	90 - 110
Chloride	98.7	100	P/P	90 - 110
Sulfate	97.7	99.7	P/P	90 - 110
Sulfate	99.7	99.6	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A118253

Included Lab Sample IDs: 2395758, 2395759

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	98.3	94.7	P/P	60 - 160
Sucralose	124	104	P/P	60 - 160

Reference Method: SM 5310 B-2011

Run ID: A118274

Included Lab Sample IDs: 2395676, 2395678, 2395680

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.4	99.1	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A118277

Included Lab Sample IDs: 2395768

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	95.8		P	80 - 120
Toxaphene	92.0		P	80 - 120

Reference Method: SM 2320 B-2011

Run ID: A118280

Included Lab Sample IDs: 2395675, 2395677, 2395679

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.1	94.7	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A118288

Included Lab Sample IDs: 2395769

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	105		P	80 - 120
Alachlor	105		P	80 - 120
Ametryn	107		P	80 - 120
Atrazine	106		P	80 - 120
Atrazine Desethyl	107		P	80 - 120
Azinphos Methyl	95.5		P	80 - 120
Azoxystrobin	101		P	80 - 120
Bromacil	108		P	80 - 120
Butylate	99.8		P	80 - 120
Caffeine	100		P	80 - 120
Carbophenothion	95.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A118288
Included Lab Sample IDs: 2395769

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carfentrazone Ethyl	109		P	80 - 120
Chlorfenapyr	102		P	80 - 120
Chlorpyrifos Ethyl	97.4		P	80 - 120
Chlorpyrifos Methyl	95.8		P	80 - 120
Coumaphos	96.6		P	80 - 120
Cyanazine	92.8		P	80 - 120
Cyprodinil	103		P	80 - 120
Demeton	99.9		P	80 - 120
Diazinon	104		P	80 - 120
Difenoconazole	108		P	80 - 120
Dimethenamid	106		P	80 - 120
Dimethomorph	103		P	80 - 120
Disulfoton	100		P	80 - 120
Dithiopyr	110		P	80 - 120
EPTC	102		P	80 - 120
Ethion	98.0		P	80 - 120
Ethoprop	97.6		P	80 - 120
Etridiazole	104		P	80 - 120
Fenamiphos	98.3		P	80 - 120
Fenbuconazole	108		P	80 - 120
Fipronil	102		P	80 - 120
Fipronil Desulfinyl	103		P	80 - 120
Fipronil Sulfide	100		P	80 - 120
Fipronil Sulfone	96.3		P	80 - 120
Fluazifop-P-butyl	112		P	80 - 120
Fludioxonil	106		P	80 - 120
Flumioxazin	101		P	80 - 120
Flutolanil	104		P	80 - 120
Fluxapyroxad	102		P	80 - 120
Fonofos	102		P	80 - 120
Hexazinone	106		P	80 - 120
Imazalil	107		P	80 - 120
Iprodione	97.5		P	80 - 120
Loratadine	102		P	80 - 120
Malathion	94.5		P	80 - 120
Metaxyl	101		P	80 - 120
Metolachlor	106		P	80 - 120
Metribuzin	102		P	80 - 120
Mevinphos	97.7		P	80 - 120
Molinate	101		P	80 - 120
Myclobutanil	102		P	80 - 120
Naled	115		P	80 - 120
Napropamide	104		P	80 - 120
Norflurazon	97.6		P	80 - 120
Oxadiazon	106		P	80 - 120
Oxyfluorfen	102		P	80 - 120
Parathion Ethyl	99.4		P	80 - 120
Parathion Methyl	99.2		P	80 - 120
Pendimethalin	99.9		P	80 - 120
Phenytol	101		P	80 - 120
Phorate	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A118288
Included Lab Sample IDs: 2395769

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Prodiamine	108		P	80 - 120
Prometon	107		P	80 - 120
Prometryn	106		P	80 - 120
Pronamide	109		P	80 - 120
Propanil	104		P	80 - 120
Propargite	101		P	80 - 120
Propiconazole	110		P	80 - 120
Pyraflufen Ethyl	96.4		P	80 - 120
Pyridaben	108		P	80 - 120
Pyriproxyfen	109		P	80 - 120
Simazine	102		P	80 - 120
Stirophos	94.5		P	80 - 120
Sulfentrazone	85.6		P	80 - 120
Tebuconazole	103		P	80 - 120
Terbufos	103		P	80 - 120
Terbutylazine	104		P	80 - 120
Thiobencarb	108		P	80 - 120
Triadimefon	101		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A118290
Included Lab Sample IDs: 2395678, 2395680

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

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A118291
Included Lab Sample IDs: 2395770

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	98.9	98.5	P/P	90 - 110
Iron	100	102	P/P	90 - 110
Magnesium	99.0	101	P/P	90 - 110
Potassium	98.7	101	P/P	90 - 110
Sodium	93.7	94.7	P/P	90 - 110
Strontium	97.6	98.7	P/P	90 - 110
Tin	97.9	98.9	P/P	90 - 110
Titanium	99.3	99.5	P/P	90 - 110
Vanadium	98.1	98.1	P/P	90 - 110
Zinc	95.1	95.6	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A118309
Included Lab Sample IDs: 2395758, 2395759

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	86.0	91.0	P/P	50 - 150
2,4,5-T	96.3	94.2	P/P	50 - 150
3-Hydroxycarbofuran	113	114	P/P	60 - 150
Acetaminophen	97.0	99.9	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A118309

Included Lab Sample IDs: 2395758, 2395759

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetamiprid	116	114	P/P	50 - 150
Afidopyropen	109	102	P/P	50 - 150
Aldicarb	93.0	102	P/P	60 - 150
Aldicarb Sulfone	102	102	P/P	50 - 150
Aldicarb Sulfoxide	104	104	P/P	50 - 150
Bentazon	125	129	P/P	50 - 160
Benzovindiflupyr	107	109	P/P	50 - 150
Carbamazepine	116	120	P/P	60 - 150
Carbaryl	109	108	P/P	60 - 150
Carbofuran	116	115	P/P	50 - 150
Clothianidin	119	133	P/P	60 - 150
Dinotefuran	119	137	P/P	50 - 150
Diuron	123	121	P/P	60 - 160
Fenuron	120	121	P/P	60 - 150
Fluridone	105	93.2	P/P	60 - 160
Hydrocodone	136	138	P/P	60 - 150
Ibuprofen	114	121	P/P	50 - 160
Imazapyr	134	126	P/P	50 - 150
Imidacloprid	104	107	P/P	60 - 150
Linuron	107	97.5	P/P	60 - 150
Mandestrobin	111	104	P/P	50 - 150
MCPP	108	98.2	P/P	50 - 150
Methiocarb	107	118	P/P	50 - 150
Methomyl	103	111	P/P	50 - 150
Naproxen	104	137	P/P	50 - 160
Oxamyl	105	115	P/P	50 - 150
Primidone	106	105	P/P	60 - 150
Propoxur	108	119	P/P	50 - 150
Pyraclostrobin	105	107	P/P	60 - 150
Silvex	109	113	P/P	50 - 150
Thiamethoxam	129	136	P/P	50 - 150
Tolfenpyrad	98.2	102	P/P	60 - 150
Triclopyr	114	101	P/P	50 - 150

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A118342

Included Lab Sample IDs: 2395676

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

Reference Method: EPA 8270E

Run ID: A118352

Included Lab Sample IDs: 2395768

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	99.0		P	80 - 120
Alpha-Chlordane	98.7		P	80 - 120
Beta-BHC	102		P	80 - 120
Beta-Cyfluthrin	104		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A118352
Included Lab Sample IDs: 2395768

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bifenthrin	96.5		P	80 - 120
Chlorothalonil	111		P	80 - 120
Cis-Nonachlor	95.3		P	80 - 120
Cypermethrin	97.9		P	80 - 120
Dacthal	98.3		P	80 - 120
DDD-p,p'	97.1		P	80 - 120
DDE-p,p'	98.7		P	80 - 120
DDT-p,p'	99.8		P	80 - 120
Delta-BHC	102		P	80 - 120
Deltamethrin	99.4		P	80 - 120
Dichlobenil	91.7		P	80 - 120
Dicofol	97.2		P	80 - 120
Dieldrin	94.0		P	80 - 120
Endosulfan I	98.0		P	80 - 120
Endosulfan II	101		P	80 - 120
Endosulfan Sulfate	111		P	80 - 120
Endrin	98.0		P	80 - 120
Endrin Aldehyde	94.8		P	80 - 120
Endrin Ketone	82.2		P	80 - 120
Esfenvalerate	104		P	80 - 120
Ethalfuralin	96.3		P	80 - 120
Gamma-BHC	93.2		P	80 - 120
Gamma-Chlordane	91.9		P	80 - 120
Heptachlor	95.2		P	80 - 120
Heptachlor Epoxide	96.1		P	80 - 120
Hexachlorobenzene	100		P	80 - 120
Kepone	75.5*		F	80 - 120
Lambda-Cyhalothrin	97.1		P	80 - 120
Methoprene	97.3		P	80 - 120
Methoxychlor	107		P	80 - 120
MGK-264	99.7		P	80 - 120
Mirex	96.6		P	80 - 120
Oxychlordane	101		P	80 - 120
Permethrin	95.5		P	80 - 120
Piperonyl Butoxide	105		P	80 - 120
Prallethrin	95.9		P	80 - 120
Tetramethrin	104		P	80 - 120
Trans-Nonachlor	97.4		P	80 - 120
Triclosan Methyl	96.7		P	80 - 120
Trifluralin	100		P	80 - 120

Reference Method: EPA 8270E
Run ID: A118356
Included Lab Sample IDs: 2395768

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fenpropathrin	98.0		P	80 - 120
Phenothrin	104		P	80 - 120
Tau-Fluvalinate	108		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A118358
Included Lab Sample IDs: 2395768

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	102		P	80 - 120
PCB-1260	98.8		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A118562
Included Lab Sample IDs: 2395676, 2395678, 2395680

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	92.8	97.3	P/P	90 - 110
Kjeldahl Nitrogen	97.3	94.4	P/P	90 - 110

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision SMP	MS
			LCS				
DEP SOP: NU-094-1	Color (true)	99.1				7.25	
	Color (true)	92.8				10.6	
EPA 180.1 Rev. 2.0	Turbidity	99.7				0.574	
EPA 200.7 Rev. 4.4	Calcium	100	99.0	99.7			1.27
	Iron	104	103	100	102		1.77
	Magnesium	104	98.2	98.3	101		1.76
	Potassium	102	100	97.0	98.8		0.937
	Sodium	93.7	97.4	94.3			1.03
	Strontium	96.7	96.9	95.5	96.2		0.684
	Tin	99.8	99.5	97.5	98.9		1.48
	Titanium	99.7	100	98.8	99.9		1.11
	Vanadium	97.7	97.7	96.5	97.3		0.915
	Zinc	93.8	93.0	91.7	93.5		1.94
	Aluminum	99.1	99.4	97.2	98.7		2.21
	Antimony	102	103	101	101		2.26
	Arsenic	98.2	99.1	97.8	97.4		1.37
	Barium	101	101	98.7	100		2.25
EPA 200.8 Rev. 5.4	Beryllium	95.1	95.2	92.1	95.8		3.29
	Boron	98.7	100	94.8	103		2.81
	Cadmium	99.5	102	98.5	99.9		3.54
	Chromium	99.9	100	98.0	97.4		2.22
	Cobalt	96.6	97.3	96.3	97.5		1.08
	Copper	101	99.3	97.7	95.9		1.66
	Lead	102	102	101	99.3		1.01
	Manganese	97.9	99.8	96.7	99.6		1.59
	Molybdenum	99.0	101	99.0	100		2.13
	Nickel	100	101	98.1	95.7		2.58
	Selenium	97.6	98.5	97.1	94.2		1.38
	Silver	102	103	101	104		2.35
	Thallium	98.8	100	101	97.0		0.599
	Chloride	101	96.3	98.5		0.318	
	Sulfate	99.5	98.4	96.0			
EPA 350.1 Rev. 2.0	Ammonia-N	97.0	99.2	97.8			1.31
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	100	97.2	95.6			1.37
EPA 353.2 Rev. 2.0	NO2NO3-N	103	104	104			0.0
	NO2NO3-N	103	104	104			0.0
EPA 365.1 Rev. 2.0	Total-P	98.8	101	101			0.0
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	80.8	85.8	90.2			4.95
	Acetochlor	87.5	107	103			4.37
	Alachlor	82.9	99.9	95.0			4.95
	Aldrin	52.0	47.0	45.9			2.27
	Alpha-BHC	79.9	78.3	77.1			1.44
	Alpha-Chlordane	70.4	71.0	70.6			0.490
	Ametryn	125	129	104			14.4
	Atrazine	95.7					4.09
	Atrazine Desethyl	111	117	97.0			18.4
	Avobenzone	106	108	120			10.8
	Azinphos Methyl	96.1	119	120			0.795
	Azoxystrobin	78.7	104	114			8.21
	Beta-BHC	97.2	87.4	88.3			1.05
	Beta-Cyfluthrin	92.8	82.3	91.4			10.4
	Bifenthrin	59.0	66.9	68.4			2.20

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Bromacil	92.0				1.64
	Butylate	69.6	70.5	67.1		4.88
	Caffeine	109	117	111		5.08
	Carbophenothion	81.9	89.3	79.3		11.8
	Carfentrazone Ethyl	93.2	113	109		3.99
	Chlorfenapyr	78.2	80.9	82.4		1.86
	Chlorothalonil	84.3	1.05	2.37		76.7
	Chlorpyrifos Ethyl	108	96.0	101		5.43
	Chlorpyrifos Methyl	96.2	106	104		2.29
	Cis-Nonachlor	67.7	56.1	57.3		2.07
	Coumaphos	70.8	82.6	88.1		6.39
	Cyanazine	195	210	187		11.8
	Cypermethrin	86.1	76.1	86.6		12.9
	Cyprodinil	93.9	113	94.2		17.8
	Dacthal	82.4	82.9	81.7		1.45
	DDD-p,p'	73.7	56.0	61.0		8.48
	DDE-p,p'	69.1	63.9	67.8		5.96
	DDT-p,p'	61.6	56.1	58.8		4.72
	Dechlorane 602	86.7	72.8	78.0		6.80
	Dechlorane 603	93.6	81.0	89.9		10.4
	Dechlorane Plus	79.5	52.5	82.7		44.6
	Delta-BHC	89.4	83.6	87.4		4.51
	Deltamethrin	97.4	72.0	97.0		29.6
	Demeton	83.6	82.6	89.8		8.36
	Diazinon	102	116	114		1.28
	Dichlobenil	59.3	37.6	46.5		21.3
	Dicofol	59.4	55.5	55.7		0.414
	Dieldrin	69.3	68.4	64.0		6.60
	Difenoconazole	147	113	115		1.45
	Dimethenamid	77.2	105	94.6		10.6
	Dimethomorph	93.9	153	185		19.1
	Disulfoton	101	97.8	108		10.0
	Dithiopyr	78.0	105	98.2		6.32
	Endosulfan I	70.6	70.5	68.7		2.63
	Endosulfan II	76.8	67.7	63.0		7.26
	Endosulfan Sulfate	102	87.9	75.2		15.6
	Endrin	71.7	68.9	69.3		0.509
	Endrin Aldehyde	65.6	44.8	47.0		4.86
	Endrin Ketone	69.3	51.1	47.8		6.63
	EPTC	59.9	65.0	62.3		4.10
	Esfenvalerate	84.0	86.0	80.0		7.25
	Ethalfuralin	67.0	69.3	64.9		6.58
	Ethion	32.9	65.4	67.2		2.74
	Ethoprop	94.7	89.2	91.4		2.46
	Etridiazole	67.1	73.6	70.3		4.64
	Fenamiphos	79.2	72.1	68.2		5.49
	Fenbuconazole	123	90.0	93.7		4.05
	Fenpropathrin	63.8	61.3	52.0		16.4
	Fipronil	93.9	111	111		0.186
	Fipronil Desulfanyl	71.8	100	92.9		7.38
	Fipronil Sulfide	83.7	92.3	83.5		9.96
	Fipronil Sulfone	74.8	81.6	71.3		13.5
	Fluazifop-P-butyl	97.5	115	98.6		15.1
	Fludioxonil	74.6	100	90.6		10.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Flumioxazin	53.7	104	110			5.42
	Flutolanil	92.9	108	89.0			19.5
	Fluxapyroxad	60.4	91.6	85.0			7.46
	Fonofos	101	95.2	95.8			0.628
	Gamma-BHC	112	124	116			7.08
	Gamma-Chlordane	64.6	65.6	62.0			5.68
	Heptachlor	79.0	101	93.5			7.54
	Heptachlor Epoxide	77.5	76.9	76.2			0.943
	Hexabromobenzene	102	95.2	101			5.45
	Hexachlorobenzene	53.5	53.9	59.1			9.09
	Hexazinone	93.6	91.6	93.1			1.12
	Imazalil	87.7	77.9	81.3			4.21
	Iprodione	75.8	113	97.3			15.3
	Kepone	88.7	47.0	37.0			23.7
	Lambda-Cyhalothrin	68.3	82.3	82.4			0.0607
	Loratadine	92.3	144	165			13.8
	Malathion	85.8	90.0	37.6			82.2
	Metalaxyl	79.3					2.20
	Methoprene	53.8	64.8	59.3			8.88
	Methoxychlor	83.2	81.6	81.4			0.247
	Metolachlor	90.8					8.04
	Metribuzin	116	93.4	95.1			1.83
	Mevinphos	98.1	89.2	88.5			0.776
	MGK-264	83.3	32.0	39.6			21.2
	Mirex	52.1	54.7	47.6			13.8
	Molinate	74.5	70.9	72.7			2.54
	Myclobutanil	88.4	104	100			3.68
	Naled	77.3	80.1	72.4			10.2
	Napropamide	60.8	96.8	82.4			16.0
	Norflurazon	61.0					15.3
	Octinoxate	109	81.8	83.4			1.91
	Oxadiazon	71.0	89.5	87.5			2.19
	Oxybenzone	113	104	111			6.63
	Oxychlordane	61.4	67.9	62.7			8.05
	Oxyfluorfen	92.0	119	115			2.89
	Parathion Ethyl	107	91.3	101			10.3
	Parathion Methyl	102	96.0	105			9.12
	PBB-153	93.7	95.9	99.0			3.12
	PBDE-47	108	106	114			7.20
	PBDE-99	95.7	109	118			7.49
	PCB-1016	60.4	66.8	64.2			3.92
	PCB-1260	57.6	59.5	60.5			1.56
	Pendimethalin	107	115	112			2.48
	Pentabromotoluene	99.0	81.1	82.9			2.25
	Permethrin	78.0	78.1	75.7			3.20
	Phenothrin	57.6	77.4	75.6			2.30
	Phenytoin	15.6	39.3	47.4			18.6
	Phorate	84.6	85.5	86.8			1.45
	Piperonyl Butoxide	88.9	74.9	81.2			8.08
	Prallethrin	75.6	67.8	71.9			5.96
	Prodiamine	42.0	55.2	55.2			0.122
	Prometon	88.7	95.6	116			19.0
	Prometryn	95.5	120	111			7.69
	Pronamide	103	110	110			0.542

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Propanil	102	121	124		2.98
	Propargite	42.2	79.1	65.7		18.4
	Propiconazole	66.7	115	99.0		15.2
	Pyraflufen Ethyl	58.7	96.6	82.6		15.7
	Pyridaben	109	112	143		24.3
	Pyriproxyfen	159	100	92.9		7.61
	Simazine	92.4	95.2	82.1		14.8
	Stirophos	46.9	77.7	22.1		111
	Sulfentrazone	65.6	107	105		1.20
	Tau-Fluvalinate	69.7	62.2	73.2		16.4
	Tebuconazole	38.1	66.1	64.8		1.98
	Terbufos	103	101	98.9		2.05
	Terbutylazine	93.3	102	103		1.11
	Tetradecachloro-m-terphenyl	107	96.8	155		46.4
	Tetramethrin	93.6	104	110		5.62
	Thiobencarb	81.1	94.5	57.3		49.0
	Trans-Nonachlor	64.9	62.2	62.0		0.340
	Tri-o-cresyl Phosphate	116	106	107		0.546
	Triadimefon	84.1	102	93.6		8.44
	Triclosan Methyl	59.9	56.7	53.8		5.28
	Trifluralin	67.4	69.4	66.6		4.16
	Tris(1-chloro-2-propyl) phosphate (TCPP)	118	109	116		6.16
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	102	95.2	104		8.81
	Tris(2-chloroethyl) phosphate (TCEP)	121	104	113		8.95
EPA 8276	Chlordane	61.4	63.8	54.4		15.8
	Toxaphene	62.0	67.5	56.9		17.0
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	97.8	31.0	31.0		0.0400
	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	104	64.6	65.7		1.61
	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	101	101	103		2.08
	Fenuron	92.2	57.7	57.3		0.713
	Fluridone	80.2	60.5	61.1		0.924
	Glufosinate	99.5	59.1	60.4		2.18
	Glyphosate	105	109	86.4		22.8
	Hydrocodone	98.8	77.6	89.5		14.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	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
	MCCP	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	112	116	124		7.03
	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	96.2			0.318	
SM 2540 C-2015	TDS	98.8			1.12	
	TDS	97.1			1.72	
SM 2540 D-2015	TSS	92.7				
	TSS	102				
SM 4500-F- C-2011	Fluoride	102	102	103		0.509
SM 5310 B-2011	Organic Carbon	94.4	93.8	95.5		1.55

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2395675, 2395677, 2395679
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2395675, 2395677, 2395679
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2395770
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2395770
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2395675, 2395677, 2395679
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2395675, 2395677, 2395679
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2395676, 2395678, 2395680
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2395676, 2395678, 2395680
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2395676, 2395678, 2395680
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2395676, 2395678, 2395680
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2395769
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2395768
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2395769
EPA 8270E	PCBs in water matrices by GC/MS/MS	2395768
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2395768
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2395757
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2395758, 2395759
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2395675, 2395677, 2395679
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2395770
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2395675, 2395677, 2395679
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2395675, 2395677, 2395679

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2395675, 2395677, 2395679
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2395676, 2395678, 2395680

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	03/22/2023			03/22/2023 14:55	Alexis Price	2395675
	03/22/2023			03/22/2023 14:56	Alexis Price	2395677
	03/22/2023			03/22/2023 15:42	Alexis Price	2395679
EPA 180.1 Rev. 2.0	03/22/2023			03/22/2023 14:38	Anna M. Plaviak	2395675, 2395677
	03/22/2023			03/22/2023 14:40	Anna M. Plaviak	2395679
EPA 200.7 Rev. 4.4	03/22/2023	03/23/2023 11:10	Vijayalakshmi Reddy	03/30/2023 02:35	McKinley C Carter	2395770
EPA 200.8 Rev. 5.4	03/22/2023	03/23/2023 11:10	Vijayalakshmi Reddy	03/24/2023 19:06	Conrad Hartmann	2395770
	03/22/2023	03/23/2023 11:10	Vijayalakshmi Reddy	03/27/2023 19:51	Conrad Hartmann	2395770
EPA 300.0 Rev. 2.1	03/22/2023			03/30/2023 03:15	Anna M. Plaviak	2395677
	03/22/2023			03/30/2023 05:30	Anna M. Plaviak	2395675
	03/22/2023			03/30/2023 06:15	Anna M. Plaviak	2395679
EPA 350.1 Rev. 2.0	03/22/2023			03/24/2023 11:32	Ping Hua	2395676
	03/22/2023			03/24/2023 11:33	Ping Hua	2395678
	03/22/2023			03/24/2023 11:34	Ping Hua	2395680
EPA 351.2 Rev. 2.0	03/22/2023	04/12/2023 13:25	Dana G. Hughes	04/13/2023 16:20	Samantha L Bates	2395676
	03/22/2023	04/12/2023 13:25	Dana G. Hughes	04/13/2023 16:24	Samantha L Bates	2395678
	03/22/2023	04/12/2023 13:25	Dana G. Hughes	04/13/2023 16:26	Samantha L Bates	2395680
EPA 353.2 Rev. 2.0	03/22/2023			03/30/2023 09:30	Beverly Y. Sanders	2395678
	03/22/2023			03/30/2023 09:31	Beverly Y. Sanders	2395680
	03/22/2023			04/03/2023 09:49	Beverly Y. Sanders	2395676
EPA 365.1 Rev. 2.0	03/22/2023	03/24/2023 10:10	Alexis Price	03/27/2023 13:29	James L Waggeberby	2395676
	03/22/2023	03/24/2023 10:10	Alexis Price	03/27/2023 13:30	James L Waggeberby	2395678
	03/22/2023	03/24/2023 10:10	Alexis Price	03/27/2023 13:31	James L Waggeberby	2395680
EPA 8270E	03/22/2023	03/24/2023 08:00	Fe-Val Siddell	03/27/2023 18:45	Arthur Maknenko	2395769
	03/22/2023	03/24/2023 08:00	Fe-Val Siddell	03/29/2023 19:37	Michael Poppell	2395769
	03/22/2023	03/24/2023 08:00	Fe-Val Siddell	03/29/2023 20:03	Michael Poppell	2395769
	03/22/2023	03/27/2023 08:00	Fe-Val Siddell	03/31/2023 23:27	Michael Poppell	2395768
	03/22/2023	03/27/2023 08:00	Fe-Val Siddell	04/03/2023 05:32	Julie Wi	2395768
	03/22/2023	03/27/2023 08:00	Fe-Val Siddell	04/04/2023 02:36	Michael Poppell	2395768
EPA 8276	03/22/2023	03/27/2023 08:00	Fe-Val Siddell	03/29/2023 16:50	Arthur Maknenko	2395768
EPA 8321B	03/22/2023	03/22/2023 14:00	Hoor Shaik	03/30/2023 04:50	Juyoung Kim	2395757
	03/22/2023	03/22/2023 14:00	Manjita Shrestha	03/22/2023 21:06	Manjita Shrestha	2395758
	03/22/2023	03/22/2023 14:00	Manjita Shrestha	03/22/2023 21:19	Manjita Shrestha	2395759
	03/22/2023	03/22/2023 14:00	Manjita Shrestha	03/24/2023 17:27	Manjita Shrestha	2395758
	03/22/2023	03/22/2023 14:00	Manjita Shrestha	03/24/2023 17:41	Manjita Shrestha	2395759
	03/22/2023	03/23/2023 09:00	Hoor Shaik	03/30/2023 12:59	Juyoung Kim	2395758
SM 2320 B-2011	03/22/2023	03/23/2023 09:00	Hoor Shaik	03/30/2023 13:18	Juyoung Kim	2395759
	03/22/2023			03/29/2023 18:52	Dale L. Simmons	2395675
	03/22/2023			03/29/2023 19:06	Dale L. Simmons	2395677
	03/22/2023			03/29/2023 19:20	Dale L. Simmons	2395679

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2340 B-2011	03/22/2023			03/30/2023 02:35	McKinley C Carter	2395770
SM 2540 C-2015	03/22/2023			03/23/2023 14:25	Blanca Fach	2395675, 2395679
	03/22/2023			03/24/2023 15:34	Yijie Li	2395677
SM 2540 D-2015	03/22/2023			03/23/2023 14:25	Blanca Fach	2395675, 2395679
	03/22/2023			03/24/2023 15:34	Yijie Li	2395677
SM 4500-F- C-2011	03/22/2023			03/24/2023 00:15	Chandler E Cox	2395675
	03/22/2023			03/24/2023 00:27	Chandler E Cox	2395677
	03/22/2023			03/24/2023 00:39	Chandler E Cox	2395679
SM 5310 B-2011	03/22/2023			03/29/2023 01:12	Elise M. Gillis	2395676
	03/22/2023			03/29/2023 01:31	Elise M. Gillis	2395678
	03/22/2023			03/29/2023 01:45	Elise M. Gillis	2395680