

Chemical Analysis Report

NE-DIST-2022-04-12-02

Florida Department of Environmental Protection
Central Laboratory
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Tallahassee, FL 32399-2400
DOH Accreditation E31780

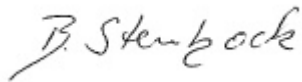
Event Description: **LSJR Palatka 2022**
Request ID: **RQ-2022-04-04-35**
Customer: **NE-DIST**
Project ID: **SMP**

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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 29-APR-2022 17:50



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: MILL BR. @ OLD SAN MATEO RD.

Collection Date/Time: 04/11/2022 10:50

Field ID: 20030577

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318471	DEP SOP: NU-094-1	Color (true)**	440		PCU	P412266	
	EPA 300.0 Rev. 2.1	Chloride	74		mg Cl/L	P412485	
		Sulfate	32		mg SO4/L	P412487	
	SM 2320 B-2011	Total Alkalinity	50		mg CaCO3/L	P412679	
	SM 2540 C-2011	TDS	283		mg/L	P412662	
	SM 2540 D-2011	TSS	4	I	mg/L	P412558	
	SM 4500-F- C-2011	Fluoride	0.14		mg F/L	P412683	
2318472	EPA 350.1 Rev. 2.0	Ammonia-N	0.074		mg N/L	P412375	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P412523	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.14		mg N/L	P412336	
	EPA 365.1 Rev. 2.0	Total-P	0.19		mg P/L	P412449	
	SM 5310 B-2011	Organic Carbon	38		mg C/L	P412476	
2318476	EPA 8321B	Aldicarb	0.020	U	ug/L	P412371	RPD
		Aldicarb Sulfone	0.0020	U	ug/L	P412371	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P412371	
		Carbaryl	0.0020	U	ug/L	P412371	
		Carbofuran	0.0020	U	ug/L	P412371	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P412371	
		Methiocarb	0.0020	U	ug/L	P412371	
		Methomyl	0.0020	U	ug/L	P412371	
		Oxamyl	0.029		ug/L	P412371	
		Propoxur	0.0020	U	ug/L	P412371	
2318477		2,4-D	0.0023	I	ug/L	P412254	
		Acesulfame K	0.10	U	ug/L	P412352	
		2,4,5-T	0.0040	U	ug/L	P412254	
		AMPA	0.20	I	ug/L	P412352	
		Acetaminophen	0.0080	U	ug/L	P412254	
		Acetamiprid	0.0020	U	ug/L	P412254	
		Endothall	0.25	U	ug/L	P412352	
		Glufosinate	0.10	U	ug/L	P412352	
		Glyphosate	0.36	I	ug/L	P412352	
		Afidopyropen	0.0020	U	ug/L	P412254	
		Bentazon	8.0E-04	U	ug/L	P412254	
		Sucralose	0.15		ug/L	P412352	
		Benzovindiflupyr	0.0020	U	ug/L	P412254	
		Carbamazepine	8.0E-04	U	ug/L	P412254	
		Clothianidin	0.0020	U	ug/L	P412254	
		Dinotefuran	0.0020	U	ug/L	P412254	
		Diuron	0.0020	U	ug/L	P412254	
		Fenuron	0.032	U	ug/L	P412254	MS
		Fluridone	8.0E-04	U	ug/L	P412254	
		Imazapyr	0.17		ug/L	P412254	
		Hydrocodone	0.0020	U	ug/L	P412254	
		Ibuprofen	0.020	U	ug/L	P412254	

Field ID: 20030577

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318477	EPA 8321B	Imidacloprid	0.011		ug/L	P412254	
		Linuron	0.0040	U	ug/L	P412254	
		Mandestrobin	0.0020	U	ug/L	P412254	
		MCPD	0.0040	U	ug/L	P412254	
		Naproxen	0.0080	U	ug/L	P412254	
		Primidone	0.0040	U	ug/L	P412254	
		Pyraclostrobin	0.0020	U	ug/L	P412254	
		Silvex	0.0040	U	ug/L	P412254	
		Thiamethoxam	0.021		ug/L	P412254	
		Tolfenpyrad	0.0020	U	ug/L	P412254	
		Triclopyr	0.0040	U	ug/L	P412254	
2318481	EPA 8270E	Aldrin	0.66	U	ng/L	P412338	
		Alpha-BHC	0.10	U	ng/L	P412338	
		Alpha-Chlordane	0.20	U	ng/L	P412338	
		PCB-1016	2.0	U	ng/L	P412338	
		Beta-BHC	0.10	U	ng/L	P412338	
		PCB-1221	2.0	U	ng/L	P412338	
		Beta-Cyfluthrin**	1.3	U	ng/L	P412338	
		PCB-1232	2.0	U	ng/L	P412338	
		Bifenthrin**	0.51	U	ng/L	P412338	
		PCB-1242	2.0	U	ng/L	P412338	
		PCB-1248	2.0	U	ng/L	P412338	
		Chlorothalonil	1.3	U	ng/L	P412338	
		PCB-1254	2.0	U	ng/L	P412338	
		Cis-Nonachlor**	0.20	U	ng/L	P412338	
		PCB-1260	2.0	U	ng/L	P412338	
		Cypermethrin	1.5	U	ng/L	P412338	
		Dacthal**	0.15	U	ng/L	P412338	
		DDD-p,p'	0.25	U	ng/L	P412338	
		DDE-p,p'	0.20	U	ng/L	P412338	
		DDT-p,p'	0.25	U	ng/L	P412338	
		Delta-BHC	0.41	U	ng/L	P412338	
		Deltamethrin**	1.3	U	ng/L	P412338	
		Dichlobenil**	0.25	U	ng/L	P412338	
		Dicofol	1.3	U	ng/L	P412338	
		Dieldrin	0.41	U	ng/L	P412338	
		Endosulfan I	0.41	U	ng/L	P412338	
		Endosulfan II	0.41	U	ng/L	P412338	
		Endosulfan Sulfate	0.31	U	ng/L	P412338	
		Endrin	0.41	U	ng/L	P412338	
		Endrin Aldehyde	0.76	U	ng/L	P412338	
		Endrin Ketone	0.41	U	ng/L	P412338	MS, RPD
		Esfenvalerate**	0.76	U	ng/L	P412338	
		Ethalfuralin**	0.15	U	ng/L	P412338	
		Fenpropathrin**	0.25	U	ng/L	P412338	

Field ID: 20030577

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes	
2318481	EPA 8270E	Gamma-BHC	0.13	U	ng/L	P412338		
		Gamma-Chlordane	0.20	U	ng/L	P412338		
		Heptachlor	0.20	U	ng/L	P412338		
		Heptachlor Epoxide	0.25	U	ng/L	P412338		
		Hexachlorobenzene**	1.0	U	ng/L	P412338		
		Kepone**	5.1	U	ng/L	P412338		
		Lambda-Cyhalothrin**	0.76	U	ng/L	P412338		
		Methoprene**	0.76	U	ng/L	P412338		
		Methoxychlor	0.31	U	ng/L	P412338		
		MGK-264**	0.20	U	ng/L	P412338		
		Mirex	0.71	U	ng/L	P412338		
		Oxychlordane**	0.31	U	ng/L	P412338		
		Permethrin	1.6	U	ng/L	P412338		
		Phenothrin**	0.92	U	ng/L	P412338		
		Piperonyl Butoxide**	0.15	I	ng/L	P412338		
		Prallethrin**	2.0	U	ng/L	P412338		
		Tau-Fluvalinate**	0.25	U	ng/L	P412338		
		Tetramethrin**	0.76	U	ng/L	P412338		
		Trans-Nonachlor**	0.20	U	ng/L	P412338		
		Triclosan Methyl**	0.15	U	ng/L	P412338		
		Trifluralin	0.23	I	ng/L	P412338		
		EPA 8276	Chlordane	2.5	U	ng/L	P412338	
			Toxaphene	15	U	ng/L	P412338	
2318482	EPA 8270E	Oxybenzone**	10	U	ng/L	P412269		
		Acetochlor	0.26	U	ng/L	P412269		
		Octinoxate**	21	U	ng/L	P412269		
		Alachlor	0.26	U	ng/L	P412269		
		Avobenzone**	100	U	ng/L	P412269		
		Ametryn	0.63	U	ng/L	P412269		
		Atrazine	1.1		ng/L	P412269		
		Atrazine Desethyl	1.7	I	ng/L	P412269		
		Azinphos Methyl	2.1	U	ng/L	P412269		
		Azoxystrobin**	8.7		ng/L	P412269		
		Bromacil	0.52	U	ng/L	P412269		
		Butylate	0.42	U	ng/L	P412269		
		Caffeine**	7.8	U	ng/L	P412269		
		Carbophenothion	0.21	U	ng/L	P412269		
		Carfentrazone Ethyl**	0.10	U	ng/L	P412269		
		Chlorfenapyr**	0.18	UJ	ng/L	P412269	LCS	
		Chlorpyrifos Ethyl	0.26	U	ng/L	P412269		
		Chlorpyrifos Methyl	0.052	U	ng/L	P412269		
		Coumaphos**	0.52	U	ng/L	P412269		
		Cyanazine	3.4	U	ng/L	P412269		
		Cyprodinil**	0.21	I	ng/L	P412269		
		Demeton	1.6	U	ng/L	P412269		

Field ID: 20030577

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318482	EPA 8270E	Diazinon	0.13	U	ng/L	P412269	
		Difenoconazole**	0.63	U	ng/L	P412269	
		Dimethenamid**	0.10	U	ng/L	P412269	
		Dimethomorph**	0.18	U	ng/L	P412269	MS
		Disulfoton	0.52	U	ng/L	P412269	
		Dithiopyr**	0.18	U	ng/L	P412269	
		EPTC	1.3	U	ng/L	P412269	
		Ethion	0.16	U	ng/L	P412269	
		Ethoprop	14		ng/L	P412269	
		Etridiazole**	0.16	U	ng/L	P412269	
		Fenamiphos	0.52	U	ng/L	P412269	
		Fenbuconazole**	0.13	U	ng/L	P412269	
		Fipronil	0.47	I	ng/L	P412269	
		Fipronil Desulfinyl**	0.18	I	ng/L	P412269	
		Fipronil Sulfide	0.16	U	ng/L	P412269	
		Fipronil Sulfone	6.8	J	ng/L	P412269	
		Fluazifop-P-butyl**	0.10	U	ng/L	P412269	
		Fludioxonil**	5.5	J	ng/L	P412269	
		Flumioxazin**	1.8	U	ng/L	P412269	
		Flutolanil**	0.10	U	ng/L	P412269	
		Fluxapyroxad**	4.4		ng/L	P412269	
		Fonofos	0.21	U	ng/L	P412269	
		Hexazinone	1.9	I	ng/L	P412269	
		Imazalil**	0.78	U	ng/L	P412269	
		Iprodione**	0.63	U	ng/L	P412269	
		Loratadine**	0.10	U	ng/L	P412269	
		Malathion	0.37	U	ng/L	P412269	
		Metaxyl	1.9	I	ng/L	P412269	
		Metolachlor	37		ng/L	P412269	
		Metribuzin	86		ng/L	P412269	
		Mevinphos	1.1	U	ng/L	P412269	
		Molinate	0.31	U	ng/L	P412269	
		Myclobutanil**	0.26	U	ng/L	P412269	
		Naled**	1.6	U	ng/L	P412269	
		Napropamide**	0.42	U	ng/L	P412269	
		Norflurazon	0.52	U	ng/L	P412269	
		Oxadiazon	0.87	I	ng/L	P412269	
		Oxyfluorfen**	0.16	U	ng/L	P412269	
		Parathion Ethyl	0.26	U	ng/L	P412269	
		Parathion Methyl	0.58	U	ng/L	P412269	
		Pendimethalin	5.0		ng/L	P412269	
		Phenytol**	3.7	U	ng/L	P412269	MS, RPD
		Phorate	0.55	U	ng/L	P412269	
		Prodiamine**	0.18	U	ng/L	P412269	MS, RPD
		Prometon	0.94	U	ng/L	P412269	

Field ID: 20030577

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318482	EPA 8270E	Prometryn	0.21	U	ng/L	P412269	
		Pronamide**	0.16	U	ng/L	P412269	
		Propanil**	0.13	U	ng/L	P412269	
		Propargite**	1.6	U	ng/L	P412269	
		Propiconazole**	0.52	U	ng/L	P412269	
		Pyraflufen Ethyl**	0.26	U	ng/L	P412269	
		Pyridaben**	0.47	U	ng/L	P412269	
		Pyriproxyfen**	0.13	U	ng/L	P412269	
		Simazine	0.52	U	ng/L	P412269	
		Stirophos**	0.13	U	ng/L	P412269	
		Sulfentrazone**	0.52	U	ng/L	P412269	
		Tebuconazole**	0.52	U	ng/L	P412269	
		Terbufos	0.10	U	ng/L	P412269	
		Terbuthylazine	0.44	U	ng/L	P412269	
		Thiobencarb**	0.63	U	ng/L	P412269	
2318485	EPA 200.7 Rev. 4.4	Triadimefon**	0.26	U	ng/L	P412269	
		Calcium	37.1		mg/L	P412351	
		Iron	2.46E+03		ug/L	P412351	
		Magnesium	9.53		mg/L	P412351	
		Potassium	3.0		mg/L	P412351	
		Sodium	37.4		mg/L	P412351	
		Strontium	474		ug/L	P412351	
		Tin	3.0	U	ug/L	P412351	
		Titanium	2.2	I	ug/L	P412351	
		Vanadium	2.0	U	ug/L	P412351	
		Zinc	6.4	I	ug/L	P412351	
	EPA 200.8 Rev. 5.4	Aluminum	487		ug/L	P412351	
		Antimony	0.081	I	ug/L	P412351	
		Arsenic	0.89		ug/L	P412351	
		Barium	20.5		ug/L	P412351	
		Beryllium	0.064		ug/L	P412351	
		Boron**	42.1		ug/L	P412351	
		Cadmium	0.023	I	ug/L	P412351	
		Chromium	1.5	I	ug/L	P412351	
		Cobalt	0.323		ug/L	P412351	
		Copper	1.09		ug/L	P412351	
		Lead	0.60		ug/L	P412351	
		Manganese	50.2		ug/L	P412351	
		Molybdenum	0.21	I	ug/L	P412351	
		Nickel	1.1	I	ug/L	P412351	
		Selenium	0.24	I	ug/L	P412351	
		Silver	0.010	U	ug/L	P412351	
		Thallium	0.10	U	ug/L	P412351	
	SM 2340 B-2011	Hardness	132		mg/L	P412351	

Field ID: 20030577

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 8270E: MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked. Estimated values for fipronil sulfone and fludioxonil due to internal standards recoveries exceeding control limits. Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for chromium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: MILL BRANCH @ McCORMICK RD

Collection Date/Time: 04/11/2022 11:15

Field ID: 20030681

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318478	EPA 8321B	Aldicarb	0.020	U	ug/L	P412371	RPD
		Aldicarb Sulfone	0.0020	U	ug/L	P412371	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P412371	
		Carbaryl	0.0020	U	ug/L	P412371	
		Carbofuran	0.0020	U	ug/L	P412371	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P412371	
		Methiocarb	0.0020	U	ug/L	P412371	
		Methomyl	0.0020	U	ug/L	P412371	
		Oxamyl	0.0020	U	ug/L	P412371	
		Propoxur	0.0020	U	ug/L	P412371	
2318479		2,4-D	0.0020	U	ug/L	P412254	MS
		Acesulfame K	0.10	U	ug/L	P412352	
		2,4,5-T	0.0040	U	ug/L	P412254	
		AMPA	0.20	I	ug/L	P412352	
		Acetaminophen	0.0080	U	ug/L	P412254	
		Acetamiprid	0.0020	U	ug/L	P412254	
		Endothall	0.25	U	ug/L	P412352	
		Glufosinate	0.10	U	ug/L	P412352	
		Glyphosate	0.21	I	ug/L	P412352	
		Afidopyropen	0.0020	U	ug/L	P412254	
		Bentazon	8.0E-04	U	ug/L	P412254	
		Sucralose	0.059		ug/L	P412352	
		Benzovindiflupyr	0.0020	U	ug/L	P412254	
		Carbamazepine	8.0E-04	U	ug/L	P412254	
		Clothianidin	0.0020	U	ug/L	P412254	
		Dinotefuran	0.0020	U	ug/L	P412254	
		Diuron	0.0020	U	ug/L	P412254	
		Fenuron	0.032	U	ug/L	P412254	
		Fluridone	8.0E-04	U	ug/L	P412254	
		Imazapyr	0.074		ug/L	P412254	
		Hydrocodone	0.0020	U	ug/L	P412254	
		Ibuprofen	0.020	U	ug/L	P412254	
		Imidacloprid	0.0043	I	ug/L	P412254	
		Linuron	0.0040	U	ug/L	P412254	
		Mandestrobin	0.0020	U	ug/L	P412254	
		MCPP	0.0040	U	ug/L	P412254	
		Naproxen	0.0080	U	ug/L	P412254	
		Primidone	0.0040	U	ug/L	P412254	
		Pyraclostrobin	0.0020	U	ug/L	P412254	
		Silvex	0.0040	U	ug/L	P412254	
		Thiamethoxam	0.0091		ug/L	P412254	
		Tolfenpyrad	0.0020	U	ug/L	P412254	
		Triclopyr	0.0040	U	ug/L	P412254	
2318483	EPA 8270E	Aldrin	0.67	U	ng/L	P412338	

Field ID: 20030681

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318483	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P412338	
		Alpha-Chlordane	0.21	U	ng/L	P412338	
		PCB-1016	2.1	U	ng/L	P412338	
		Beta-BHC	0.10	U	ng/L	P412338	
		PCB-1221	2.1	U	ng/L	P412338	
		Beta-Cyfluthrin**	1.3	U	ng/L	P412338	
		PCB-1232	2.1	U	ng/L	P412338	
		Bifenthrin**	0.51	U	ng/L	P412338	
		PCB-1242	2.1	U	ng/L	P412338	
		PCB-1248	2.1	U	ng/L	P412338	
		Chlorothalonil	1.3	U	ng/L	P412338	
		PCB-1254	2.1	U	ng/L	P412338	
		Cis-Nonachlor**	0.21	U	ng/L	P412338	
		PCB-1260	2.1	U	ng/L	P412338	
		Cypermethrin	1.5	U	ng/L	P412338	
		Dacthal**	0.15	U	ng/L	P412338	
		DDD-p,p'	0.26	U	ng/L	P412338	
		DDE-p,p'	0.21	U	ng/L	P412338	
		DDT-p,p'	0.26	U	ng/L	P412338	
		Delta-BHC	0.41	U	ng/L	P412338	
		Deltamethrin**	1.3	U	ng/L	P412338	
		Dichlobenil**	0.26	U	ng/L	P412338	
		Dicofol	1.3	U	ng/L	P412338	
		Dieldrin	0.41	U	ng/L	P412338	
		Endosulfan I	0.41	U	ng/L	P412338	
		Endosulfan II	0.41	U	ng/L	P412338	
		Endosulfan Sulfate	0.31	U	ng/L	P412338	
		Endrin	0.41	U	ng/L	P412338	
		Endrin Aldehyde	0.77	U	ng/L	P412338	
		Endrin Ketone	0.41	U	ng/L	P412338	MS, RPD
		Esfenvalerate**	0.77	U	ng/L	P412338	
		Ethalfuralin**	0.15	U	ng/L	P412338	
		Fenpropathrin**	0.26	U	ng/L	P412338	
		Gamma-BHC	0.13	U	ng/L	P412338	
		Gamma-Chlordane	0.21	U	ng/L	P412338	
		Heptachlor	0.21	U	ng/L	P412338	
		Heptachlor Epoxide	0.26	U	ng/L	P412338	
		Hexachlorobenzene**	1.0	U	ng/L	P412338	
		Kepone**	5.1	U	ng/L	P412338	
		Lambda-Cyhalothrin**	0.77	U	ng/L	P412338	
		Methoprene**	0.77	U	ng/L	P412338	
		Methoxychlor	0.31	U	ng/L	P412338	
		MGK-264**	0.21	U	ng/L	P412338	
		Mirex	0.72	U	ng/L	P412338	
		Oxychlordane**	0.31	U	ng/L	P412338	

Field ID: 20030681

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318483	EPA 8270E	Permethrin	1.6	U	ng/L	P412338	
		Phenothrin**	0.92	U	ng/L	P412338	
		Piperonyl Butoxide**	0.16	I	ng/L	P412338	
		Prallethrin**	2.1	U	ng/L	P412338	
		Tau-Fluvalinate**	0.26	U	ng/L	P412338	
		Tetramethrin**	0.77	U	ng/L	P412338	
		Trans-Nonachlor**	0.21	U	ng/L	P412338	
		Triclosan Methyl**	0.15	U	ng/L	P412338	
		Trifluralin	0.21	U	ng/L	P412338	
		Chlordane	2.6	U	ng/L	P412338	
	EPA 8276	Toxaphene	15	U	ng/L	P412338	
		Oxybenzone**	10	U	ng/L	P412269	
		Acetochlor	0.26	U	ng/L	P412269	
		Octinoxate**	20	U	ng/L	P412269	
		Alachlor	0.26	U	ng/L	P412269	
		Avobenzone**	100	U	ng/L	P412269	
		Ametryn	0.61	U	ng/L	P412269	
		Atrazine	0.43	I	ng/L	P412269	
		Atrazine Desethyl	1.5	U	ng/L	P412269	
		Azinphos Methyl	2.0	U	ng/L	P412269	
2318484	EPA 8270E	Azoxystrobin**	0.51	U	ng/L	P412269	
		Bromacil	0.51	U	ng/L	P412269	
		Butylate	0.41	U	ng/L	P412269	
		Caffeine**	7.7	U	ng/L	P412269	
		Carbophenothion	0.20	U	ng/L	P412269	
		Carfentrazone Ethyl**	0.10	U	ng/L	P412269	
		Chlorfenapyr**	0.18	UJ	ng/L	P412269	LCS
		Chlorpyrifos Ethyl	0.26	U	ng/L	P412269	
		Chlorpyrifos Methyl	0.051	U	ng/L	P412269	
		Coumaphos**	0.51	U	ng/L	P412269	
		Cyanazine	3.3	U	ng/L	P412269	
		Cyprodinil**	0.10	U	ng/L	P412269	
		Demeton	1.5	U	ng/L	P412269	
		Diazinon	0.13	U	ng/L	P412269	
		Difenoconazole**	0.61	U	ng/L	P412269	
		Dimethenamid**	0.10	U	ng/L	P412269	
		Dimethomorph**	0.18	U	ng/L	P412269	MS
		Disulfoton	0.51	U	ng/L	P412269	
		Dithiopyr**	0.18	U	ng/L	P412269	
		EPTC	1.3	U	ng/L	P412269	
		Ethion	0.15	U	ng/L	P412269	
		Ethoprop	11		ng/L	P412269	
		Etridiazole**	0.15	U	ng/L	P412269	
		Fenamiphos	0.51	U	ng/L	P412269	
		Fenbuconazole**	0.13	U	ng/L	P412269	

Field ID: 20030681

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318484	EPA 8270E	Fipronil	0.26	U	ng/L	P412269	
		Fipronil Desulfinyll**	0.13	U	ng/L	P412269	
		Fipronil Sulfide	0.26	I	ng/L	P412269	
		Fipronil Sulfone	0.15	U	ng/L	P412269	
		Fluazifop-P-butyl**	0.10	U	ng/L	P412269	
		Fludioxonil**	4.1	J	ng/L	P412269	
		Flumioxazin**	1.8	U	ng/L	P412269	
		Flutolanil**	0.10	U	ng/L	P412269	
		Fluxapyroxad**	0.10	U	ng/L	P412269	
		Fonofos	0.20	U	ng/L	P412269	
		Hexazinone	2.5		ng/L	P412269	
		Imazalil**	0.77	U	ng/L	P412269	
		Iprodione**	0.61	U	ng/L	P412269	
		Loratadine**	0.10	U	ng/L	P412269	
		Malathion	0.36	U	ng/L	P412269	
		Metalaxyl	0.84	I	ng/L	P412269	
		Metolachlor	0.36	U	ng/L	P412269	
		Metribuzin	68		ng/L	P412269	
		Mevinphos	1.1	U	ng/L	P412269	
		Molinate	0.31	U	ng/L	P412269	
		Myclobutanil**	0.26	U	ng/L	P412269	
		Naled**	1.5	U	ng/L	P412269	
		Napropamide**	0.41	U	ng/L	P412269	
		Norflurazon	0.51	U	ng/L	P412269	
		Oxadiazon	1.2	I	ng/L	P412269	
		Oxyfluorfen**	0.15	U	ng/L	P412269	
		Parathion Ethyl	0.26	U	ng/L	P412269	
		Parathion Methyl	0.56	U	ng/L	P412269	
		Pendimethalin	1.0	U	ng/L	P412269	
		Phenytol**	3.6	U	ng/L	P412269	MS, RPD
		Phorate	0.54	U	ng/L	P412269	
		Prodiamine**	0.18	U	ng/L	P412269	MS, RPD
		Prometon	0.92	U	ng/L	P412269	
		Prometryn	0.20	U	ng/L	P412269	
		Pronamide**	0.15	U	ng/L	P412269	
		Propanil**	0.13	U	ng/L	P412269	
		Propargite**	1.5	U	ng/L	P412269	
		Propiconazole**	0.51	U	ng/L	P412269	
		Pyraflufen Ethyl**	0.26	U	ng/L	P412269	
		Pyridaben**	0.46	U	ng/L	P412269	
		Pyriproxyfen**	0.13	U	ng/L	P412269	
		Simazine	0.51	U	ng/L	P412269	
		Stirophos**	0.13	U	ng/L	P412269	
		Sulfentrazone**	0.51	U	ng/L	P412269	
		Tebuconazole**	0.51	U	ng/L	P412269	

Field ID: 20030681

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318484	EPA 8270E	Terbufos	0.10	U	ng/L	P412269	
		Terbutylazine	0.44	U	ng/L	P412269	
		Thiobencarb**	0.61	U	ng/L	P412269	
		Triadimefon**	0.26	U	ng/L	P412269	
2318486	EPA 200.7 Rev. 4.4	Calcium	30.6		mg/L	P412351	
		Iron	2.62E+03		ug/L	P412351	
		Magnesium	7.67		mg/L	P412351	
		Potassium	1.9		mg/L	P412351	
		Sodium	30.5		mg/L	P412351	
		Strontium	373		ug/L	P412351	
		Tin	3.0	U	ug/L	P412351	
		Titanium	2.2	I	ug/L	P412351	
		Vanadium	2.0	U	ug/L	P412351	
		Zinc	5.8	I	ug/L	P412351	
	EPA 200.8 Rev. 5.4	Aluminum	625		ug/L	P412351	
		Antimony	0.064	I	ug/L	P412351	
		Arsenic	0.75		ug/L	P412351	
		Barium	22.6		ug/L	P412351	
		Beryllium	0.084		ug/L	P412351	
		Boron**	32.4		ug/L	P412351	
		Cadmium	0.027	I	ug/L	P412351	
		Chromium	1.5	I	ug/L	P412351	
		Cobalt	0.420		ug/L	P412351	
		Copper	0.99		ug/L	P412351	
		Lead	0.62		ug/L	P412351	
		Manganese	39.3		ug/L	P412351	
		Molybdenum	0.15	I	ug/L	P412351	
		Nickel	1.1	I	ug/L	P412351	
		Selenium	0.29	I	ug/L	P412351	
		Silver	0.010	U	ug/L	P412351	
		Thallium	0.10	U	ug/L	P412351	
	SM 2340 B-2011	Hardness	108		mg/L	P412351	

Ref. Method and Comment:

EPA 8270E: MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked. Estimated value for fludioxonil due to internal standard recovery exceeding control limits. Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for chromium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: Unnamed Ditch at Cowpen Branch Rd.

Collection Date/Time: 04/11/2022 13:35

Field ID: G2NE1222

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2318480	EPA 8321B	2,4-D	0.064		ug/L	P412254	
		Acesulfame K	0.10	U	ug/L	P412352	
		2,4,5-T	0.0040	U	ug/L	P412254	
		AMPA	0.57		ug/L	P412352	
		Acetaminophen	0.0080	U	ug/L	P412254	
		Acetamiprid	0.0020	U	ug/L	P412254	
		Endothall	0.25	U	ug/L	P412352	
		Glufosinate	0.10	U	ug/L	P412352	
		Glyphosate	0.24	I	ug/L	P412352	
		Afidopyropen	0.0020	U	ug/L	P412254	
		Bentazon	0.0037		ug/L	P412254	
		Sucralose	0.010	U	ug/L	P412352	
		Benzovindiflupyr	0.0020	U	ug/L	P412254	
		Carbamazepine	8.0E-04	U	ug/L	P412254	
		Clothianidin	0.019		ug/L	P412254	
		Dinotefuran	0.0020	U	ug/L	P412254	
		Diuron	0.0020	U	ug/L	P412254	
		Fenuron	0.032	U	ug/L	P412254	MS
		Fluridone	8.0E-04	U	ug/L	P412254	
		Imazapyr	0.0040	U	ug/L	P412254	
		Hydrocodone	0.0020	U	ug/L	P412254	
		Ibuprofen	0.070	I	ug/L	P412254	
		Imidacloprid	0.018		ug/L	P412254	
		Linuron	0.0040	U	ug/L	P412254	
		Mandestrobin	0.0020	U	ug/L	P412254	
		MCPP	0.0040	U	ug/L	P412254	
		Naproxen	0.0080	U	ug/L	P412254	
		Primidone	0.0040	U	ug/L	P412254	
		Pyraclostrobin	0.0020	U	ug/L	P412254	
		Silvex	0.0040	U	ug/L	P412254	
		Thiamethoxam	0.038		ug/L	P412254	
		Tolfenpyrad	0.0020	U	ug/L	P412254	
		Triclopyr	0.0040	U	ug/L	P412254	

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P412266

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P412351

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: P412351

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P412485

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P412487

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P412375

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P412523

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P412336

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P412449

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

Reference Method: EPA 8270E
Batch ID: P412269

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P412269

Component	Result	Code	Units
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P412269

Component	Result	Code	Units
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P412269

Component	Result	Code	Units
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L
Terbuthylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8270E

Batch ID: P412338

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	1.2	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P412338

Component	Result	Code	Units
Chlorothalonil	1.2	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P412338

Component	Result	Code	Units
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.70	U	ng/L
Mirex	0.70	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: P412338

Component	Result	Code	Units
Chlordane	2.5	U	ng/L
Chlordane	2.5	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8276

Batch ID: P412338

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

Reference Method: EPA 8321B

Batch ID: P412254

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

Reference Method: EPA 8321B

Batch ID: P412352

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: P412371

Component	Result	Code	Units
3-Hydroxycarbofuran	0.0020	U	ug/L
Aldicarb	0.020	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P412371

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

Reference Method: SM 2320 B-2011

Batch ID: P412679

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

Reference Method: SM 2540 C-2011

Batch ID: P412662

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011

Batch ID: P412558

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P412683

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P412476

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: P412266

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	102		P	85 - 115

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P412351

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	106		P	85 - 115
Iron	107		P	85 - 115
Magnesium	108		P	85 - 115
Potassium	105		P	85 - 115
Sodium	105		P	85 - 115
Strontium	104		P	85 - 115
Tin	101		P	85 - 115
Titanium	102		P	85 - 115
Vanadium	95.2		P	85 - 115
Zinc	97.8		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P412351

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	104		P	85 - 115
Antimony	104		P	85 - 115
Arsenic	105		P	85 - 115
Barium	107		P	85 - 115
Beryllium	104		P	85 - 115
Boron	109		P	85 - 115
Cadmium	103		P	85 - 115
Chromium	101		P	85 - 115
Cobalt	106		P	85 - 115
Copper	101		P	85 - 115
Lead	104		P	85 - 115
Manganese	101		P	85 - 115
Molybdenum	104		P	85 - 115
Nickel	104		P	85 - 115
Selenium	101		P	85 - 115
Silver	104		P	85 - 115
Thallium	107		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P412485

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P412487

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.6		P	90 - 110

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P412375

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

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P412523

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	95.2		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P412336

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

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P412449

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

Reference Method: EPA 8270E

Batch ID: P412269

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	87.7		P	70 - 121
Alachlor	92.3		P	68 - 119
Ametryn	103		P	64 - 139
Atrazine	105		P	76 - 120
Atrazine Desethyl	64.9		P	44 - 126
Avobenzone	91.4		P	76 - 212
Azinphos Methyl	107		P	43 - 192
Azoxystrobin	142		P	36 - 224
Bromacil	66.7		P	52 - 121
Butylate	74.3		P	28 - 91.0
Caffeine	76.0		P	50 - 134
Carbophenothion	119		P	56 - 129
Carfentrazone Ethyl	129		P	60 - 141
Chlorfenapyr	122		F	56 - 115
Chlorpyrifos Ethyl	86.3		P	60 - 118
Chlorpyrifos Methyl	71.6		P	68 - 119
Coumaphos	65.0		P	18 - 250
Cyanazine	179		P	61 - 250
Cyprodinil	59.0		P	55 - 145
Demeton	71.4		P	30 - 159
Diazinon	72.4		P	70 - 123
Difenoconazole	62.8		P	49 - 204
Dimethenamid	69.6		P	64 - 115
Dimethomorph	170		P	12 - 219
Disulfoton	72.2		P	44 - 125
Dithiopyr	86.8		P	64 - 115
EPTC	61.6		P	28 - 86.0
Ethion	36.3		P	33 - 125

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
 Batch ID: P412269

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ethoprop	104		P	64 - 116
Etridiazole	69.2		P	34 - 91.0
Fenamiphos	71.8		P	12 - 127
Fenbuconazole	84.1		P	59 - 151
Fipronil	67.8		P	67 - 129
Fipronil Desulfinyl	118		P	65 - 127
Fipronil Sulfide	113		P	61 - 116
Fipronil Sulfone	116		P	55 - 117
Fluazifop-P-butyl	110		P	62 - 127
Fludioxonil	126		P	62 - 128
Flumioxazin	62.2		P	33 - 250
Flutolanil	71.1		P	56 - 127
Fluxapyroxad	59.6		P	45 - 128
Fonofos	70.1		P	62 - 111
Hexazinone	80.1		P	46 - 139
Imazalil	47.7		P	38 - 142
Iprodione	70.8		P	47 - 135
Loratadine	220		P	10 - 244
Malathion	77.3		P	61 - 139
Metalaxyl	57.8		P	10 - 119
Metolachlor	78.0		P	65 - 118
Metribuzin	89.1		P	51 - 250
Mevinphos	80.7		P	53 - 121
Molinate	60.0		P	42 - 96.0
Myclobutanil	66.1		P	55 - 128
Naled	75.6		P	10 - 98.0
Napropamide	53.2		P	49 - 121
Norflurazon	110		P	61 - 126
Octinoxate	85.2		P	30 - 159
Oxadiazon	65.2		P	59 - 116
Oxybenzone	77.1		P	61 - 139
Oxyfluorfen	76.6		P	64 - 137
Parathion Ethyl	98.3		P	70 - 112
Parathion Methyl	86.2		P	76 - 133
Pendimethalin	78.5		P	52 - 117
Phenytoin	15.6		P	10 - 199
Phorate	83.5		P	48 - 121
Prodiamine	31.8		P	26 - 142
Prometon	74.2		P	43 - 123
Prometryn	95.6		P	66 - 127
Pronamide	100		P	75 - 121
Propanil	85.5		P	45 - 150
Propargite	90.0		P	42 - 208
Propiconazole	109		P	60 - 125
Pyraflufen Ethyl	108		P	70 - 138
Pyridaben	71.3		P	35 - 245
Pyriproxyfen	78.5		P	30 - 149
Simazine	98.3		P	72 - 125
Stiophos	35.9		P	29 - 164
Sulfentrazone	48.7		P	21 - 139
Tebuconazole	15.3		P	10 - 115
Terbufos	105		P	60 - 123

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P412269

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Terbutylazine	75.8		P	72 - 115
Thiobencarb	76.7		P	31 - 139
Triadimefon	100		P	65 - 116

Reference Method: EPA 8270E
Batch ID: P412338

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	47.4		P	10 - 93.0
Alpha-BHC	96.4		P	75 - 106
Alpha-Chlordane	78.6		P	50 - 109
Beta-BHC	102		P	36 - 138
Beta-Cyfluthrin	65.1		P	23 - 167
Bifenthrin	47.0		P	11 - 123
Chlorothalonil	47.8		P	27 - 190
Cis-Nonachlor	67.6		P	40 - 111
Cypermethrin	65.6		P	25 - 155
Dacthal	89.4		P	72 - 119
DDD-p,p'	73.4		P	47 - 108
DDE-p,p'	74.6		P	48 - 107
DDT-p,p'	74.1		P	49 - 111
Delta-BHC	107		P	54 - 138
Deltamethrin	76.5		P	22 - 189
Dichlobenil	89.7		P	32 - 113
Dicofol	72.3		P	50 - 108
Dieldrin	76.7		P	56 - 110
Endosulfan I	80.2		P	60 - 105
Endosulfan II	78.0		P	50 - 120
Endosulfan Sulfate	87.7		P	55 - 121
Endrin	77.6		P	31 - 119
Endrin Aldehyde	100		P	36 - 116
Endrin Ketone	103		P	69 - 177
Esfenvalerate	67.4		P	10 - 179
Ethalfuralin	80.1		P	49 - 99.0
Fenpropathrin	60.8		P	35 - 119
Gamma-BHC	94.4		P	69 - 120
Gamma-Chlordane	72.7		P	45 - 107
Heptachlor	70.4		P	41 - 100
Heptachlor Epoxide	92.6		P	58 - 106
Hexachlorobenzene	73.7		P	39 - 100
Kepone	108		P	10 - 191
Lambda-Cyhalothrin	51.3		P	21 - 206
Methoprene	48.8		P	10 - 129
Methoxychlor	85.4		P	61 - 111
MGK-264	72.4		P	20 - 123
Mirex	52.9		P	10 - 182
Oxychlordane	78.6		P	39 - 110
PCB-1016	83.8		P	49 - 111
PCB-1260	101		P	42 - 116
Permethrin	64.6		P	26 - 152
Phenothrin	39.8		P	10 - 109
Piperonyl Butoxide	96.3		P	19 - 147

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P412338

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Prallethrin	69.6		P	14 - 109
Tau-Fluvalinate	52.4		P	16 - 134
Tetramethrin	86.5		P	10 - 125
Trans-Nonachlor	66.6		P	45 - 107
Triclosan Methyl	78.9		P	60 - 110
Trifluralin	75.6		P	44 - 101

Reference Method: EPA 8276
Batch ID: P412338

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	96.4		P	61 - 118
Toxaphene	81.2		P	51 - 122

Reference Method: EPA 8321B
Batch ID: P412254

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	98.5		P	40 - 150
2,4,5-T	74.5		P	40 - 150
Acetaminophen	65.9		P	30 - 150
Acetamiprid	102		P	40 - 150
Afidopyropen	99.0		P	40 - 150
Bentazon	93.7		P	30 - 150
Benzovindiflupyr	101		P	40 - 150
Carbamazepine	115		P	40 - 150
Clothianidin	104		P	40 - 150
Dinotefuran	101		P	40 - 150
Diuron	76.7		P	40 - 150
Fenuron	114		P	40 - 150
Fluridone	95.3		P	40 - 150
Hydrocodone	97.9		P	40 - 150
Ibuprofen	108		P	40 - 150
Imazapyr	107		P	40 - 150
Imidacloprid	94.3		P	40 - 150
Linuron	78.3		P	40 - 150
Mandestrobin	108		P	40 - 150
MCPP	110		P	40 - 150
Naproxen	81.0		P	40 - 150
Primidone	116		P	40 - 150
Pyraclostrobin	86.0		P	40 - 150
Silvex	66.9		P	40 - 150
Thiamethoxam	113		P	40 - 150
Tolfenpyrad	48.5		P	30 - 150
Triclopyr	71.2		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P412352

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	86.5		P	40 - 150
AMPA	99.5		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P412352

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endothall	114		P	40 - 150
Glufosinate	109		P	40 - 150
Glyphosate	127		P	40 - 150
Sucralose	78.2		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P412371

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	93.1		P	40 - 150
Aldicarb	81.9		P	30 - 150
Aldicarb Sulfone	102		P	40 - 150
Aldicarb Sulfoxide	115		P	40 - 150
Carbaryl	79.2		P	40 - 150
Carbofuran	97.5		P	40 - 150
Methiocarb	83.4		P	40 - 150
Methomyl	96.2		P	40 - 150
Oxamyl	106		P	40 - 150
Propoxur	89.4		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P412679

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.1		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P412683

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.5		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P412476

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.5		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P412351

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2318392	Calcium	106		P	80 - 120
2318392	Iron	108	108	P/P	80 - 120
2318392	Magnesium	108	107	P/P	80 - 120
2318392	Potassium	106	105	P/P	80 - 120
2318392	Sodium	105		P	80 - 120
2318392	Strontium	104	106	P/P	80 - 120
2318392	Tin	97.8	102	P/P	80 - 120
2318392	Titanium	100	102	P/P	80 - 120
2318392	Vanadium	95.7	97.1	P/P	80 - 120
2318392	Zinc	96.3	97.9	P/P	80 - 120
2318567	Calcium	103		P	80 - 120
2318567	Iron	102		P	80 - 120
2318567	Magnesium	108		P	80 - 120
2318567	Potassium	108		P	80 - 120
2318567	Sodium	108		P	80 - 120
2318567	Strontium	106		P	80 - 120
2318567	Tin	102		P	80 - 120
2318567	Titanium	104		P	80 - 120
2318567	Vanadium	98.8		P	80 - 120
2318567	Zinc	98.5		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P412351

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2318392	Aluminum	105	102	P/P	80 - 120
2318392	Antimony	106	106	P/P	80 - 120
2318392	Arsenic	105	104	P/P	80 - 120
2318392	Barium	107	106	P/P	80 - 120
2318392	Beryllium	100	99.3	P/P	80 - 120
2318392	Boron	106	105	P/P	80 - 120
2318392	Cadmium	105	107	P/P	80 - 120
2318392	Chromium	103	102	P/P	80 - 120
2318392	Cobalt	106	104	P/P	80 - 120
2318392	Copper	100	98.9	P/P	80 - 120
2318392	Lead	106	105	P/P	80 - 120
2318392	Manganese	104	101	P/P	80 - 120
2318392	Molybdenum	107	106	P/P	80 - 120
2318392	Nickel	101	100	P/P	80 - 120
2318392	Selenium	100	101	P/P	80 - 120
2318392	Silver	105	103	P/P	80 - 120
2318392	Thallium	111	111	P/P	80 - 120
2318567	Aluminum	104		P	80 - 120
2318567	Antimony	107		P	80 - 120
2318567	Arsenic	106		P	80 - 120
2318567	Barium	110		P	80 - 120
2318567	Beryllium	104		P	80 - 120
2318567	Boron	110		P	80 - 120
2318567	Cadmium	104		P	80 - 120
2318567	Cobalt	106		P	80 - 120
2318567	Copper	98.4		P	80 - 120
2318567	Lead	106		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P412351

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2318567	Manganese	101		P	80 - 120
2318567	Molybdenum	83.5		P	80 - 120
2318567	Nickel	101		P	80 - 120
2318567	Selenium	103		P	80 - 120
2318567	Silver	105		P	80 - 120
2318567	Thallium	110		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P412485

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2318059	Chloride	96.7		P	90 - 110
2318224	Chloride	99.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P412487

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2318059	Sulfate	96.9		P	90 - 110
2318224	Sulfate	99.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P412375

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2318505	Ammonia-N	100	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P412523

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2318070	Kjeldahl Nitrogen	97.3	94.3	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P412336

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2318386	NO2NO3-N	96.2	96.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P412449

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2318506	Total-P	101	102	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P412269

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2318871	Acetochlor	100	113	P/P	65 - 124
2318871	Alachlor	94.4	109	P/P	61 - 121
2318871	Ametryn	132	126	P/P	52 - 216

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P412269

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2318871	Atrazine Desethyl	43.6	51.0	P/P	15 - 160
2318871	Avobenzone	85.1	92.0	P/P	59 - 206
2318871	Azinphos Methyl	106	99.2	P/P	40 - 292
2318871	Azoxystrobin	118	126	P/P	12 - 242
2318871	Bromacil	68.9	100	P/P	54 - 167
2318871	Butylate	50.3	41.4	P/P	14 - 94.0
2318871	Caffeine	85.9	85.4	P/P	10 - 226
2318871	Carbophenothion	70.1	54.7	P/P	49 - 122
2318871	Carfentrazone Ethyl	123	116	P/P	53 - 138
2318871	Chlorfenapyr	59.9	64.6	P/P	50 - 150
2318871	Chlorpyrifos Ethyl	77.5	91.3	P/P	52 - 122
2318871	Chlorpyrifos Methyl	74.1	95.2	P/P	66 - 117
2318871	Coumaphos	161	166	P/P	50 - 220
2318871	Cyanazine	58.7	70.1	P/P	43 - 245
2318871	Cyprodinil	68.7	92.8	P/P	50 - 150
2318871	Demeton	65.7	76.6	P/P	43 - 188
2318871	Diazinon	69.6	81.2	P/P	69 - 131
2318871	Difenoconazole	101	105	P/P	34 - 231
2318871	Dimethenamid	73.2	87.0	P/P	55 - 118
2318871	Dimethomorph	179	158	F/F	50 - 150
2318871	Disulfoton	63.3	74.4	P/P	38 - 141
2318871	Dithiopyr	90.2	80.9	P/P	42 - 116
2318871	EPTC	54.8	49.7	P/P	18 - 85.0
2318871	Ethion	45.3	30.3	P/P	10 - 131
2318871	Ethoprop	83.3	87.8	P/P	65 - 129
2318871	Etridiazole	58.1	62.9	P/P	50 - 150
2318871	Fenamiphos	69.4	61.7	P/P	31 - 137
2318871	Fenbuconazole	79.9	92.0	P/P	57 - 160
2318871	Fipronil	72.3	73.0	P/P	62 - 132
2318871	Fipronil Desulfinyl	125	111	P/P	57 - 131
2318871	Fipronil Sulfide	50.4	50.1	P/P	15 - 138
2318871	Fipronil Sulfone	60.9	63.7	P/P	21 - 134
2318871	Fluazifop-P-butyl	57.9	72.6	P/P	54 - 133
2318871	Fludioxonil	70.0	86.3	P/P	58 - 127
2318871	Flumioxazin	121	105	P/P	33 - 300
2318871	Flutolanil	70.8	76.0	P/P	42 - 130
2318871	Fluxapyroxad	61.7	75.8	P/P	23 - 141
2318871	Fonofos	91.8	92.1	P/P	58 - 119
2318871	Hexazinone	105	113	P/P	68 - 172
2318871	Imazalil	80.0	75.8	P/P	48 - 283
2318871	Iprodione	73.5	87.7	P/P	38 - 140
2318871	Loratadine	147	145	P/P	50 - 150
2318871	Malathion	77.2	93.8	P/P	40 - 137
2318871	Metalaxyl	71.8	102	P/P	21 - 129
2318871	Metolachlor	96.1	119	P/P	55 - 122
2318871	Metribuzin	93.6	90.9	P/P	38 - 187
2318871	Mevinphos	66.1	63.9	P/P	54 - 134
2318871	Molinate	74.2	75.2	P/P	41 - 97.0
2318871	Myclobutanil	71.6	86.8	P/P	56 - 125
2318871	Naled	77.9	86.8	P/P	10 - 108
2318871	Napropamide	53.5	58.1	P/P	50 - 150
2318871	Norflurazon	115	113	P/P	32 - 122

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P412269

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2318871	Octinoxate	74.6	80.6	P/P	25 - 150
2318871	Oxadiazon	66.3	76.7	P/P	40 - 119
2318871	Oxybenzone	70.2	82.5	P/P	59 - 147
2318871	Oxyfluorfen	89.8	103	P/P	61 - 153
2318871	Parathion Ethyl	107	97.1	P/P	59 - 130
2318871	Parathion Methyl	105	99.4	P/P	65 - 155
2318871	Pendimethalin	111	96.1	P/P	49 - 138
2318871	Phenytoin	4.46	17.5	F/F	50 - 200
2318871	Phorate	99.8	95.3	P/P	54 - 161
2318871	Prodiamine	213	117	F/P	33 - 161
2318871	Prometon	94.5	89.3	P/P	48 - 140
2318871	Prometryn	109	98.7	P/P	55 - 134
2318871	Pronamide	80.8	101	P/P	66 - 137
2318871	Propanil	121	117	P/P	50 - 150
2318871	Propargite	91.6	87.0	P/P	50 - 200
2318871	Propiconazole	109	96.8	P/P	36 - 150
2318871	Pyraflufen Ethyl	105	84.8	P/P	50 - 150
2318871	Pyridaben	53.7	54.2	P/P	50 - 200
2318871	Pyriproxyfen	78.7	88.3	P/P	10 - 165
2318871	Simazine	95.2	79.5	P/P	57 - 145
2318871	Stirophos	89.5	83.1	P/P	50 - 150
2318871	Sulfentrazone	71.1	73.7	P/P	34 - 140
2318871	Tebuconazole	92.0	82.1	P/P	10 - 127
2318871	Terbufos	82.2	92.1	P/P	59 - 138
2318871	Terbutylazine	71.0	76.2	P/P	68 - 119
2318871	Thiobencarb	83.0	97.2	P/P	50 - 150
2318871	Triadimefon	71.0	81.0	P/P	50 - 150

Reference Method: EPA 8270E

Batch ID: P412338

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2318339	Aldrin	64.4	64.7	P/P	10 - 89.0
2318339	Alpha-BHC	94.2	95.4	P/P	71 - 105
2318339	Alpha-Chlordane	72.7	72.2	P/P	43 - 107
2318339	Beta-BHC	118	120	P/P	57 - 152
2318339	Beta-Cyfluthrin	78.7	79.6	P/P	29 - 186
2318339	Bifenthrin	61.7	63.5	P/P	19 - 119
2318339	Chlorothalonil	129	157	P/P	10 - 245
2318339	Cis-Nonachlor	66.7	72.7	P/P	36 - 110
2318339	Cypermethrin	84.2	84.6	P/P	24 - 169
2318339	Dacthal	87.8	87.9	P/P	62 - 115
2318339	DDD-p,p'	73.0	73.2	P/P	36 - 109
2318339	DDE-p,p'	75.9	75.7	P/P	30 - 114
2318339	DDT-p,p'	80.7	80.5	P/P	42 - 108
2318339	Delta-BHC	126	131	P/P	60 - 164
2318339	Deltamethrin	60.7	63.2	P/P	10 - 210
2318339	Dichlobenil	61.3	56.2	P/P	23 - 108
2318339	Dicofol	77.1	76.2	P/P	44 - 109
2318339	Dieldrin	78.4	80.2	P/P	37 - 119
2318339	Endosulfan I	81.4	82.1	P/P	52 - 105
2318339	Endosulfan II	72.9	74.6	P/P	35 - 127

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P412338

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2318339	Endosulfan Sulfate	80.0	78.9	P/P	39 - 130
2318339	Endrin	79.1	78.6	P/P	30 - 116
2318339	Endrin Aldehyde	81.8	86.1	P/P	20 - 110
2318339	Endrin Ketone	96.2	140	P/F	48 - 134
2318339	Esfenvalerate	86.9	86.5	P/P	10 - 199
2318339	Ethalfuralin	86.9	87.4	P/P	48 - 95.0
2318339	Fenpropathrin	77.1	77.2	P/P	37 - 121
2318339	Gamma-BHC	99.1	104	P/P	61 - 126
2318339	Gamma-Chlordane	78.4	77.8	P/P	39 - 105
2318339	Heptachlor	76.0	75.7	P/P	38 - 96.0
2318339	Heptachlor Epoxide	96.8	94.0	P/P	42 - 114
2318339	Hexachlorobenzene	82.7	83.0	P/P	39 - 93.0
2318339	Kepone	58.0	68.3	P/P	10 - 215
2318339	Lambda-Cyhalothrin	72.8	75.6	P/P	10 - 204
2318339	Methoprene	71.0	72.1	P/P	17 - 108
2318339	Methoxychlor	98.5	97.3	P/P	56 - 115
2318339	MGK-264	82.1	79.5	P/P	35 - 120
2318339	Mirex	60.6	62.2	P/P	10 - 178
2318339	Oxychlordane	79.3	82.9	P/P	47 - 91.0
2318339	Permethrin	77.8	79.3	P/P	27 - 170
2318339	Phenothrin	65.1	66.4	P/P	10 - 133
2318339	Piperonyl Butoxide	93.3	96.5	P/P	23 - 150
2318339	Prallethrin	75.1	79.2	P/P	21 - 113
2318339	Tau-Fluvalinate	70.2	70.2	P/P	16 - 158
2318339	Tetramethrin	106	102	P/P	22 - 132
2318339	Trans-Nonachlor	72.5	76.1	P/P	43 - 102
2318339	Triclosan Methyl	79.6	80.2	P/P	49 - 109
2318339	Trifluralin	86.1	86.6	P/P	48 - 93.0
2318668	PCB-1016	85.4	82.1	P/P	46 - 110
2318668	PCB-1260	84.4	86.1	P/P	42 - 111

Reference Method: EPA 8276

Batch ID: P412338

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2318668	Chlordane	91.5	88.2	P/P	55 - 128
2318668	Toxaphene	90.1	90.5	P/P	57 - 211

Reference Method: EPA 8321B

Batch ID: P412254

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2318087	2,4-D	77.0	93.1	P/P	40 - 150
2318087	2,4,5-T	72.1	75.2	P/P	40 - 150
2318087	Acetaminophen	102	97.5	P/P	30 - 150
2318087	Acetamiprid	85.8	74.4	P/P	40 - 150
2318087	Afidopyropen	80.8	74.7	P/P	40 - 150
2318087	Bentazon	81.3	79.8	P/P	30 - 150
2318087	Benzovindiflupyr	108	98.8	P/P	40 - 150
2318087	Carbamazepine	112	110	P/P	40 - 150
2318087	Clothianidin	95.4	96.2	P/P	40 - 150
2318087	Dinotefuran	112	110	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P412254

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2318087	Diuron	94.1	93.8	P/P	40 - 150
2318087	Fenuron	142	156	P/F	40 - 150
2318087	Fluridone	93.2	91.5	P/P	40 - 150
2318087	Hydrocodone	94.9	104	P/P	40 - 150
2318087	Ibuprofen	127	130	P/P	40 - 150
2318087	Imazapyr	102	90.8	P/P	40 - 150
2318087	Imidacloprid	115	98.9	P/P	40 - 150
2318087	Linuron	75.8	59.2	P/P	40 - 150
2318087	Mandestrobin	93.0	101	P/P	40 - 150
2318087	MCPP	115	94.7	P/P	40 - 150
2318087	Naproxen	70.5	55.6	P/P	40 - 150
2318087	Primidone	140	138	P/P	40 - 150
2318087	Pyraclostrobin	87.1	86.0	P/P	40 - 150
2318087	Silvex	61.0	59.7	P/P	40 - 150
2318087	Thiamethoxam	116	115	P/P	40 - 150
2318087	Tolfenpyrad	45.0	46.8	P/P	30 - 150
2318087	Triclopyr	74.1	65.8	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P412352

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2318391	Acesulfame K	95.8	101	P/P	40 - 150
2318391	AMPA	80.2	91.9	P/P	40 - 150
2318391	Endothall	115	122	P/P	40 - 150
2318391	Glufosinate	110	112	P/P	40 - 150
2318391	Glyphosate	101	117	P/P	40 - 150
2318391	Sucralose	74.2	81.7	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P412371

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2318337	3-Hydroxycarbofuran	93.5	104	P/P	40 - 150
2318337	Aldicarb	63.1	110	P/P	30 - 150
2318337	Aldicarb Sulfone	95.3	112	P/P	40 - 150
2318337	Aldicarb Sulfoxide	57.8	59.7	P/P	40 - 150
2318337	Carbaryl	65.4	64.1	P/P	40 - 150
2318337	Carbofuran	91.9	106	P/P	40 - 150
2318337	Methiocarb	86.3	92.8	P/P	40 - 150
2318337	Methomyl	88.7	96.5	P/P	40 - 150
2318337	Oxamyl	93.4	102	P/P	40 - 150
2318337	Propoxur	74.9	81.1	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P412683

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2319288	Fluoride	98.4	96.8	P/P	92 - 107

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P412476

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2318688	Organic Carbon	96.3	99.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P412266

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2318385	Color (true)	0.454	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P412351

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2318392	Calcium	0.844	Spike	P	0 - 20
2318392	Iron	0.225	Spike	P	0 - 20
2318392	Magnesium	0.267	Spike	P	0 - 20
2318392	Potassium	0.909	Spike	P	0 - 20
2318392	Sodium	0.801	Spike	P	0 - 20
2318392	Strontium	1.27	Spike	P	0 - 20
2318392	Tin	4.07	Spike	P	0 - 20
2318392	Titanium	2.01	Spike	P	0 - 20
2318392	Vanadium	1.38	Spike	P	0 - 20
2318392	Zinc	1.62	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P412351

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2318392	Aluminum	1.87	Spike	P	0 - 20
2318392	Antimony	0.101	Spike	P	0 - 20
2318392	Arsenic	0.411	Spike	P	0 - 20
2318392	Barium	0.673	Spike	P	0 - 20
2318392	Beryllium	0.966	Spike	P	0 - 20
2318392	Boron	0.864	Spike	P	0 - 20
2318392	Cadmium	2.52	Spike	P	0 - 20
2318392	Chromium	0.880	Spike	P	0 - 20
2318392	Cobalt	1.88	Spike	P	0 - 20
2318392	Copper	1.30	Spike	P	0 - 20
2318392	Lead	1.08	Spike	P	0 - 20
2318392	Manganese	1.98	Spike	P	0 - 20
2318392	Molybdenum	0.595	Spike	P	0 - 20
2318392	Nickel	0.999	Spike	P	0 - 20
2318392	Selenium	0.795	Spike	P	0 - 20
2318392	Silver	2.01	Spike	P	0 - 20
2318392	Thallium	0.287	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P412485

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2318059	Chloride	0.216	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P412487

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2318059	Sulfate	0.407	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P412375

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2318505	Ammonia-N	1.92	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P412523

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2318070	Kjeldahl Nitrogen	1.93	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P412336

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2318386	NO2NO3-N	0.375	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P412449

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2318506	Total-P	1.22	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P412269

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2318871	Acetochlor	11.8	Spike	P	0 - 27
2318871	Alachlor	14.2	Spike	P	0 - 27
2318871	Ametryn	4.70	Spike	P	0 - 34
2318871	Atrazine	5.73	Spike	P	0 - 41
2318871	Atrazine Desethyl	10.3	Spike	P	0 - 38
2318871	Avobenzone	7.73	Spike	P	0 - 30
2318871	Azinphos Methyl	6.45	Spike	P	0 - 62
2318871	Azoxystrobin	5.72	Spike	P	0 - 32
2318871	Bromacil	29.7	Spike	P	0 - 30
2318871	Butylate	19.3	Spike	P	0 - 59
2318871	Caffeine	0.662	Spike	P	0 - 60
2318871	Carbophenothion	24.6	Spike	P	0 - 25
2318871	Carfentrazone Ethyl	6.27	Spike	P	0 - 26
2318871	Chlorfenapyr	7.51	Spike	P	0 - 30
2318871	Chlorpyrifos Ethyl	16.4	Spike	P	0 - 27
2318871	Chlorpyrifos Methyl	25.0	Spike	P	0 - 26

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P412269

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2318871	Coumaphos	3.28	Spike	P	0 - 30
2318871	Cyanazine	17.7	Spike	P	0 - 58
2318871	Cyprodinil	29.9	Spike	P	0 - 30
2318871	Demeton	15.3	Spike	P	0 - 25
2318871	Diazinon	15.3	Spike	P	0 - 29
2318871	Difenoconazole	4.46	Spike	P	0 - 25
2318871	Dimethenamid	17.2	Spike	P	0 - 30
2318871	Dimethomorph	12.4	Spike	P	0 - 30
2318871	Disulfoton	16.1	Spike	P	0 - 33
2318871	Dithiopyr	10.9	Spike	P	0 - 22
2318871	EPTC	9.88	Spike	P	0 - 38
2318871	Ethion	39.8	Spike	P	0 - 79
2318871	Ethoprop	5.28	Spike	P	0 - 23
2318871	Etridiazole	7.93	Spike	P	0 - 30
2318871	Fenamiphos	11.7	Spike	P	0 - 58
2318871	Fenbuconazole	14.2	Spike	P	0 - 37
2318871	Fipronil	0.934	Spike	P	0 - 33
2318871	Fipronil Desulfinyl	11.8	Spike	P	0 - 26
2318871	Fipronil Sulfide	0.580	Spike	P	0 - 37
2318871	Fipronil Sulfone	4.42	Spike	P	0 - 50
2318871	Fluazifop-P-butyl	22.6	Spike	P	0 - 24
2318871	Fludioxonil	20.9	Spike	P	0 - 26
2318871	Flumioxazin	13.4	Spike	P	0 - 37
2318871	Flutolanil	7.09	Spike	P	0 - 26
2318871	Fluxapyroxad	20.4	Spike	P	0 - 34
2318871	Fonofos	0.386	Spike	P	0 - 27
2318871	Hexazinone	6.91	Spike	P	0 - 36
2318871	Imazalil	5.35	Spike	P	0 - 65
2318871	Iprodione	17.7	Spike	P	0 - 33
2318871	Loratadine	1.88	Spike	P	0 - 30
2318871	Malathion	19.4	Spike	P	0 - 44
2318871	Metalaxyl	32.3	Spike	P	0 - 38
2318871	Metolachlor	18.2	Spike	P	0 - 36
2318871	Metribuzin	2.91	Spike	P	0 - 63
2318871	Mevinphos	3.27	Spike	P	0 - 26
2318871	Molinate	1.33	Spike	P	0 - 40
2318871	Myclobutanil	19.1	Spike	P	0 - 21
2318871	Naled	10.8	Spike	P	0 - 26
2318871	Napropamide	8.26	Spike	P	0 - 30
2318871	Norflurazon	1.05	Spike	P	0 - 24
2318871	Octinoxate	7.63	Spike	P	0 - 30
2318871	Oxadiazon	13.0	Spike	P	0 - 27
2318871	Oxybenzone	16.1	Spike	P	0 - 30
2318871	Oxyfluorfen	13.2	Spike	P	0 - 24
2318871	Parathion Ethyl	9.97	Spike	P	0 - 28
2318871	Parathion Methyl	5.39	Spike	P	0 - 27
2318871	Pendimethalin	13.9	Spike	P	0 - 31
2318871	Phenytoin	119	Spike	F	0 - 30
2318871	Phorate	4.56	Spike	P	0 - 27
2318871	Prodiamine	58.3	Spike	F	0 - 52
2318871	Prometon	5.66	Spike	P	0 - 31

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P412269

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2318871	Prometryn	9.58	Spike	P	0 - 28
2318871	Pronamide	22.3	Spike	P	0 - 26
2318871	Propanil	2.70	Spike	P	0 - 30
2318871	Propargite	5.18	Spike	P	0 - 30
2318871	Propiconazole	12.3	Spike	P	0 - 31
2318871	Pyraflufen Ethyl	20.9	Spike	P	0 - 30
2318871	Pyridaben	0.855	Spike	P	0 - 30
2318871	Pyriproxyfen	11.5	Spike	P	0 - 50
2318871	Simazine	10.3	Spike	P	0 - 29
2318871	Stiropfos	7.39	Spike	P	0 - 30
2318871	Sulfentrazone	3.20	Spike	P	0 - 33
2318871	Tebuconazole	11.3	Spike	P	0 - 44
2318871	Terbufos	11.4	Spike	P	0 - 29
2318871	Terbuthylazine	7.04	Spike	P	0 - 27
2318871	Thiobencarb	15.7	Spike	P	0 - 30
2318871	Triadimefon	13.1	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P412338

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2318339	Aldrin	0.350	Spike	P	0 - 37
2318339	Alpha-BHC	1.23	Spike	P	0 - 16
2318339	Alpha-Chlordane	0.737	Spike	P	0 - 28
2318339	Beta-BHC	1.77	Spike	P	0 - 32
2318339	Beta-Cyfluthrin	1.25	Spike	P	0 - 41
2318339	Bifenthrin	2.92	Spike	P	0 - 36
2318339	Chlorothalonil	18.9	Spike	P	0 - 54
2318339	Cis-Nonachlor	8.63	Spike	P	0 - 33
2318339	Cypermethrin	0.458	Spike	P	0 - 38
2318339	Dacthal	0.0569	Spike	P	0 - 23
2318339	DDD-p,p'	0.340	Spike	P	0 - 35
2318339	DDE-p,p'	0.320	Spike	P	0 - 27
2318339	DDT-p,p'	0.186	Spike	P	0 - 31
2318339	Delta-BHC	4.15	Spike	P	0 - 30
2318339	Deltamethrin	4.11	Spike	P	0 - 76
2318339	Dichlobenil	8.80	Spike	P	0 - 33
2318339	Dicofol	1.15	Spike	P	0 - 24
2318339	Dieldrin	2.03	Spike	P	0 - 35
2318339	Endosulfan I	0.849	Spike	P	0 - 25
2318339	Endosulfan II	2.32	Spike	P	0 - 31
2318339	Endosulfan Sulfate	1.43	Spike	P	0 - 38
2318339	Endrin	0.626	Spike	P	0 - 53
2318339	Endrin Aldehyde	5.18	Spike	P	0 - 81
2318339	Endrin Ketone	37.4	Spike	F	0 - 33
2318339	Esfenvalerate	0.483	Spike	P	0 - 46
2318339	Ethalfuralin	0.606	Spike	P	0 - 22
2318339	Fenpropathrin	0.113	Spike	P	0 - 29
2318339	Gamma-BHC	4.68	Spike	P	0 - 17
2318339	Gamma-Chlordane	0.730	Spike	P	0 - 28

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P412338

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2318339	Heptachlor	0.488	Spike	P	0 - 28
2318339	Heptachlor Epoxide	2.89	Spike	P	0 - 23
2318339	Hexachlorobenzene	0.405	Spike	P	0 - 22
2318339	Kepone	5.54	Spike	P	0 - 61
2318339	Lambda-Cyhalothrin	3.76	Spike	P	0 - 52
2318339	Methoprene	1.49	Spike	P	0 - 38
2318339	Methoxychlor	1.20	Spike	P	0 - 29
2318339	MGK-264	3.23	Spike	P	0 - 41
2318339	Mirex	2.61	Spike	P	0 - 39
2318339	Oxychlordane	4.45	Spike	P	0 - 33
2318339	Permethrin	1.88	Spike	P	0 - 39
2318339	Phenothrin	2.08	Spike	P	0 - 52
2318339	Piperonyl Butoxide	3.38	Spike	P	0 - 91
2318339	Prallethrin	5.33	Spike	P	0 - 34
2318339	Tau-Fluvalinate	0.0401	Spike	P	0 - 41
2318339	Tetramethrin	3.60	Spike	P	0 - 43
2318339	Trans-Nonachlor	4.79	Spike	P	0 - 31
2318339	Triclosan Methyl	0.745	Spike	P	0 - 24
2318339	Trifluralin	0.503	Spike	P	0 - 23
2318668	PCB-1016	3.95	Spike	P	0 - 32
2318668	PCB-1260	2.02	Spike	P	0 - 31

Reference Method: EPA 8276

Batch ID: P412338

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2318668	Chlordane	3.63	Spike	P	0 - 25
2318668	Toxaphene	0.501	Spike	P	0 - 24

Reference Method: EPA 8321B

Batch ID: P412254

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2318087	2,4-D	19.0	Spike	P	0 - 30
2318087	2,4,5-T	4.17	Spike	P	0 - 30
2318087	Acetaminophen	4.53	Spike	P	0 - 30
2318087	Acetamiprid	14.3	Spike	P	0 - 30
2318087	Afidopyropen	7.90	Spike	P	0 - 30
2318087	Bentazon	1.89	Spike	P	0 - 30
2318087	Benzovindiflupyr	8.82	Spike	P	0 - 30
2318087	Carbamazepine	2.45	Spike	P	0 - 30
2318087	Clothianidin	0.793	Spike	P	0 - 30
2318087	Dinotefuran	1.89	Spike	P	0 - 30
2318087	Diuron	0.255	Spike	P	0 - 30
2318087	Fenuron	9.54	Spike	P	0 - 30
2318087	Fluridone	1.85	Spike	P	0 - 30
2318087	Hydrocodone	8.98	Spike	P	0 - 30
2318087	Ibuprofen	1.80	Spike	P	0 - 30
2318087	Imazapyr	11.2	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P412254

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2318087	Imidacloprid	14.9	Spike	P	0 - 30
2318087	Linuron	24.7	Spike	P	0 - 30
2318087	Mandestrobin	8.33	Spike	P	0 - 30
2318087	MCPP	19.7	Spike	P	0 - 30
2318087	Naproxen	23.6	Spike	P	0 - 30
2318087	Primidone	1.73	Spike	P	0 - 30
2318087	Pyraclostrobin	1.32	Spike	P	0 - 30
2318087	Silvex	2.26	Spike	P	0 - 30
2318087	Thiamethoxam	0.550	Spike	P	0 - 30
2318087	Tolfenpyrad	3.91	Spike	P	0 - 30
2318087	Triclopyr	11.9	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P412352

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2318391	Acesulfame K	4.94	Spike	P	0 - 30
2318391	AMPA	12.5	Spike	P	0 - 30
2318391	Endothall	5.70	Spike	P	0 - 30
2318391	Glufosinate	1.81	Spike	P	0 - 30
2318391	Glyphosate	14.5	Spike	P	0 - 30
2318391	Sucralose	9.25	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P412371

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2318337	3-Hydroxycarbofuran	10.8	Spike	P	0 - 30
2318337	Aldicarb	54.3	Spike	F	0 - 30
2318337	Aldicarb Sulfone	16.4	Spike	P	0 - 30
2318337	Aldicarb Sulfoxide	3.26	Spike	P	0 - 30
2318337	Carbaryl	1.96	Spike	P	0 - 30
2318337	Carbofuran	13.8	Spike	P	0 - 30
2318337	Methiocarb	7.20	Spike	P	0 - 30
2318337	Methomyl	8.46	Spike	P	0 - 30
2318337	Oxamyl	8.63	Spike	P	0 - 30
2318337	Propoxur	7.91	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P412679

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2319288	Total Alkalinity	0.409	Sample	P	0 - 5.2

Quality Assurance Report Precision

Reference Method: SM 2540 C-2011
Batch ID: P412662

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2318385	TDS	2.51	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P412683

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2319288	Fluoride	1.50	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P412476

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2318688	Organic Carbon	2.26	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2318476
Field Sample ID: 20030577

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	72.4	P	30 - 160

Lab Sample ID: 2318477
Field Sample ID: 20030577

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	120	P	30 - 160
EPA 8321B	Acetaminophen-d4	108	P	30 - 160
EPA 8321B	Carbamazepine-d10	119	P	30 - 160
EPA 8321B	Diuron-d6	76.4	P	30 - 160
EPA 8321B	Endothall-d6	87.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	62.4	P	30 - 160
EPA 8321B	Ibuprofen-d3	65.1	P	30 - 160
EPA 8321B	Primidone-d5	122	P	30 - 160
EPA 8321B	Sucralose-d6	50.6	P	30 - 160

Lab Sample ID: 2318478
Field Sample ID: 20030681

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	55.2	P	30 - 160

Lab Sample ID: 2318479
Field Sample ID: 20030681

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	104	P	30 - 160
EPA 8321B	Acetaminophen-d4	107	P	30 - 160
EPA 8321B	Carbamazepine-d10	115	P	30 - 160
EPA 8321B	Diuron-d6	62.1	P	30 - 160
EPA 8321B	Endothall-d6	83.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	63.6	P	30 - 160
EPA 8321B	Ibuprofen-d3	99.5	P	30 - 160
EPA 8321B	Primidone-d5	87.8	P	30 - 160
EPA 8321B	Sucralose-d6	70.2	P	30 - 160

Lab Sample ID: 2318480
Field Sample ID: G2NE1222

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	95.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	104	P	30 - 160
EPA 8321B	Carbamazepine-d10	138	P	30 - 160
EPA 8321B	Diuron-d6	72.8	P	30 - 160
EPA 8321B	Endothall-d6	90.7	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	55.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	103	P	30 - 160
EPA 8321B	Primidone-d5	152	P	30 - 160
EPA 8321B	Sucralose-d6	48.0	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2318481
Field Sample ID: 20030577

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	79.6	P	38 - 115
EPA 8270E	Decachlorobiphenyl	101	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	84.0	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	81.4	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	84.9	P	30 - 97.0
EPA 8276	PCNB	81.7	P	45 - 119

Lab Sample ID: 2318482
Field Sample ID: 20030577

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	63.0	P	20 - 200
EPA 8270E	Simazine-d10	122	P	71 - 140
EPA 8270E	Terbufos-d10	123	P	62 - 131
EPA 8270E	Terphenyl-d14	84.4	P	50 - 124

Lab Sample ID: 2318483
Field Sample ID: 20030681

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	64.1	P	38 - 115
EPA 8270E	Decachlorobiphenyl	89.6	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	83.6	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	79.4	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	75.1	P	30 - 97.0
EPA 8276	PCNB	83.8	P	45 - 119

Lab Sample ID: 2318484
Field Sample ID: 20030681

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	60.2	P	20 - 200
EPA 8270E	Simazine-d10	97.6	P	71 - 140
EPA 8270E	Terbufos-d10	62.9	P	62 - 131
EPA 8270E	Terphenyl-d14	70.4	P	50 - 124

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A111435

Included Lab Sample IDs: 2318471

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	102	P/P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A111443

Included Lab Sample IDs: 2318471

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.5	97.7	P/P	90 - 110
Sulfate	98.9	99.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A111459

Included Lab Sample IDs: 2318472

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A111476

Included Lab Sample IDs: 2318472

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A111511

Included Lab Sample IDs: 2318485, 2318486

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	107	108	P/P	90 - 110
Antimony	106	107	P/P	90 - 110
Arsenic	104	106	P/P	90 - 110
Barium	104	104	P/P	90 - 110
Beryllium	102	103	P/P	90 - 110
Cadmium	106	107	P/P	90 - 110
Chromium	103	104	P/P	90 - 110
Cobalt	104	106	P/P	90 - 110
Copper	103	103	P/P	90 - 110
Lead	104	104	P/P	90 - 110
Manganese	103	104	P/P	90 - 110
Molybdenum	105	105	P/P	90 - 110
Nickel	103	104	P/P	90 - 110
Selenium	103	105	P/P	90 - 110
Silver	107	107	P/P	90 - 110
Thallium	105	104	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A111518

Included Lab Sample IDs: 2318472

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A111518

Included Lab Sample IDs: 2318472

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.8	96.5	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A111537

Included Lab Sample IDs: 2318485, 2318486

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Boron	95.3	99.3	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A111564

Included Lab Sample IDs: 2318482, 2318484

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	92.3		P	80 - 120
Alachlor	106		P	80 - 120
Ametryn	110		P	80 - 120
Atrazine	101		P	80 - 120
Atrazine Desethyl	101		P	80 - 120
Azinphos Methyl	102		P	80 - 120
Azoxystrobin	98.9		P	80 - 120
Bromacil	109		P	80 - 120
Butylate	109		P	80 - 120
Caffeine	112		P	80 - 120
Carbophenothion	106		P	80 - 120
Carfentrazone Ethyl	118		P	80 - 120
Chlorfenapyr	98.1		P	80 - 120
Chlorpyrifos Ethyl	91.9		P	80 - 120
Chlorpyrifos Methyl	94.7		P	80 - 120
Coumaphos	99.1		P	80 - 120
Cyanazine	93.1		P	80 - 120
Cyprodinil	99.4		P	80 - 120
Demeton	95.0		P	80 - 120
Diazinon	108		P	80 - 120
Difenoconazole	100		P	80 - 120
Dimethenamid	97.3		P	80 - 120
Dimethomorph	101		P	80 - 120
Disulfoton	97.6		P	80 - 120
Dithiopyr	104		P	80 - 120
EPTC	108		P	80 - 120
Ethion	106		P	80 - 120
Ethoprop	98.4		P	80 - 120
Etridiazole	95.0		P	80 - 120
Fenamiphos	103		P	80 - 120
Fenbuconazole	96.4		P	80 - 120
Fipronil	96.5		P	80 - 120
Fipronil Desulfinyl	113		P	80 - 120
Fipronil Sulfide	90.2		P	80 - 120
Fipronil Sulfone	103		P	80 - 120
Fluazifop-P-butyl	106		P	80 - 120
Flumioxazin	112		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A111564

Included Lab Sample IDs: 2318482, 2318484

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Flutolanil	108		P	80 - 120
Fluxapyroxad	106		P	80 - 120
Fonofos	98.0		P	80 - 120
Hexazinone	106		P	80 - 120
Imazalil	106		P	80 - 120
Iprodione	110		P	80 - 120
Loratadine	102		P	80 - 120
Malathion	96.1		P	80 - 120
Metaxyl	96.8		P	80 - 120
Metolachlor	95.9		P	80 - 120
Metribuzin	88.3		P	80 - 120
Mevinphos	92.3		P	80 - 120
Molinate	112		P	80 - 120
Myclobutanil	105		P	80 - 120
Naled	91.0		P	80 - 120
Napropamide	109		P	80 - 120
Norflurazon	106		P	80 - 120
Oxadiazon	106		P	80 - 120
Oxyfluorfen	110		P	80 - 120
Parathion Ethyl	95.4		P	80 - 120
Parathion Methyl	95.8		P	80 - 120
Pendimethalin	96.7		P	80 - 120
Phenytoin	98.6		P	80 - 120
Phorate	86.9		P	80 - 120
Prodiamine	114		P	80 - 120
Prometon	95.2		P	80 - 120
Prometryn	105		P	80 - 120
Pronamide	101		P	80 - 120
Propanil	101		P	80 - 120
Propargite	109		P	80 - 120
Propiconazole	109		P	80 - 120
Pyraflufen Ethyl	108		P	80 - 120
Pyridaben	106		P	80 - 120
Pyriproxyfen	105		P	80 - 120
Simazine	94.2		P	80 - 120
Stirophos	106		P	80 - 120
Sulfentrazone	98.9		P	80 - 120
Tebuconazole	102		P	80 - 120
Terbufos	97.5		P	80 - 120
Terbutylazine	100		P	80 - 120
Thiobencarb	99.6		P	80 - 120
Triadimefon	89.9		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A111583

Included Lab Sample IDs: 2318485, 2318486

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	102	103	P/P	90 - 110
Iron	103	104	P/P	90 - 110
Magnesium	102	103	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A111583

Included Lab Sample IDs: 2318485, 2318486

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Potassium	104	106	P/P	90 - 110
Sodium	102	103	P/P	90 - 110
Strontium	103	104	P/P	90 - 110
Tin	96.6	98.4	P/P	90 - 110
Titanium	101	100	P/P	90 - 110
Vanadium	99.9	100	P/P	90 - 110
Zinc	97.1	98.1	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A111588

Included Lab Sample IDs: 2318481, 2318483

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	97.7		P	80 - 120
Toxaphene	104		P	80 - 120

Reference Method: SM 2320 B-2011

Run ID: A111591

Included Lab Sample IDs: 2318471

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.1	97.0	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A111591

Included Lab Sample IDs: 2318471

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

Reference Method: EPA 8270E

Run ID: A111594

Included Lab Sample IDs: 2318481, 2318483

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	98.7		P	80 - 120
Alpha-BHC	99.5		P	80 - 120
Alpha-Chlordane	95.6		P	80 - 120
Beta-BHC	99.3		P	80 - 120
Beta-Cyfluthrin	92.9		P	80 - 120
Bifenthrin	93.9		P	80 - 120
Chlorothalonil	112		P	80 - 120
Cis-Nonachlor	96.4		P	80 - 120
Cypermethrin	95.3		P	80 - 120
Dacthal	96.6		P	80 - 120
DDD-p,p'	96.4		P	80 - 120
DDE-p,p'	98.1		P	80 - 120
DDT-p,p'	100		P	80 - 120
Delta-BHC	103		P	80 - 120
Deltamethrin	93.8		P	80 - 120
Dichlobenil	95.5		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A111594

Included Lab Sample IDs: 2318481, 2318483

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dicofol	93.5		P	80 - 120
Dieldrin	94.3		P	80 - 120
Endosulfan I	100		P	80 - 120
Endosulfan II	97.4		P	80 - 120
Endosulfan Sulfate	100		P	80 - 120
Endrin	99.9		P	80 - 120
Endrin Aldehyde	91.8		P	80 - 120
Endrin Ketone	103		P	80 - 120
Esfenvalerate	96.8		P	80 - 120
Ethalfuralin	97.8		P	80 - 120
Fenpropathrin	95.8		P	80 - 120
Gamma-BHC	100		P	80 - 120
Gamma-Chlordane	97.2		P	80 - 120
Heptachlor	99.2		P	80 - 120
Heptachlor Epoxide	98.4		P	80 - 120
Hexachlorobenzene	99.3		P	80 - 120
Kepone	110		P	80 - 120
Lambda-Cyhalothrin	92.8		P	80 - 120
Methoprene	97.4		P	80 - 120
Methoxychlor	99.5		P	80 - 120
MGK-264	94.4		P	80 - 120
Mirex	97.6		P	80 - 120
Oxychlordane	99.1		P	80 - 120
Permethrin	95.6		P	80 - 120
Phenothrin	94.5		P	80 - 120
Piperonyl Butoxide	93.7		P	80 - 120
Prallethrin	99.5		P	80 - 120
Tau-Fluvalinate	94.7		P	80 - 120
Tetramethrin	95.0		P	80 - 120
Trans-Nonachlor	96.7		P	80 - 120
Triclosan Methyl	97.3		P	80 - 120
Trifluralin	99.7		P	80 - 120

Reference Method: EPA 8321B

Run ID: A111604

Included Lab Sample IDs: 2318477, 2318479, 2318480

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	77.3	83.0	P/P	60 - 160
Sucralose	77.5	70.7	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A111607

Included Lab Sample IDs: 2318477, 2318479, 2318480

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	79.6	89.3	P/P	60 - 160
Endothall	100	104	P/P	60 - 160
Glufosinate	93.2	95.4	P/P	60 - 160
Glyphosate	109	104	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A111610

Included Lab Sample IDs: 2318472

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A111625

Included Lab Sample IDs: 2318472

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

Reference Method: EPA 8270E

Run ID: A111632

Included Lab Sample IDs: 2318481, 2318483

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	97.0		P	80 - 120
PCB-1260	97.8		P	80 - 120

Reference Method: EPA 8270E

Run ID: A111635

Included Lab Sample IDs: 2318482, 2318484

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Avobenzone	90.5		P	80 - 120
Octinoxate	91.4		P	80 - 120
Oxybenzone	97.7		P	80 - 120

Reference Method: EPA 8321B

Run ID: A111642

Included Lab Sample IDs: 2318477, 2318479, 2318480

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	104	107	P/P	50 - 150
2,4,5-T	128	109	P/P	50 - 150
3-Hydroxycarbofuran	89.9	94.9	P/P	60 - 150
Acetaminophen	99.5	87.4	P/P	60 - 160
Acetamiprid	96.8	104	P/P	50 - 150
Afidopyropen	110	110	P/P	50 - 150
Aldicarb	124	84.5	P/P	60 - 150
Aldicarb Sulfone	102	90.9	P/P	50 - 150
Aldicarb Sulfoxide	98.1	98.4	P/P	50 - 150
Bentazon	112	111	P/P	50 - 160
Benzovindiflupyr	105	94.0	P/P	50 - 150
Carbamazepine	111	92.6	P/P	60 - 150
Carbaryl	95.0	90.6	P/P	60 - 150
Carbofuran	98.2	109	P/P	50 - 150
Clothianidin	75.3	64.5	P/P	60 - 150
Dinotefuran	102	100	P/P	50 - 150
Diuron	125	99.3	P/P	60 - 160
Fenuron	88.9	87.0	P/P	60 - 150
Fluridone	95.3	95.0	P/P	60 - 160
Hydrocodone	101	102	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A111642

Included Lab Sample IDs: 2318477, 2318479, 2318480

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ibuprofen	137	128	P/P	50 - 160
Imazapyr	125	142	P/P	50 - 150
Imidacloprid	94.8	93.3	P/P	60 - 150
Linuron	60.7	134	P/P	60 - 150
Mandestrobin	97.4	103	P/P	50 - 150
MCPD	111	114	P/P	50 - 150
Methiocarb	106	119	P/P	50 - 150
Methomyl	82.4	94.5	P/P	50 - 150
Naproxen	66.0	148	P/P	50 - 160
Oxamyl	91.8	97.2	P/P	50 - 150
Primidone	87.4	147	P/P	60 - 150
Propoxur	89.1	92.6	P/P	50 - 150
Pyraclostrobin	99.8	107	P/P	60 - 150
Silvex	120	112	P/P	50 - 150
Thiamethoxam	90.9	92.2	P/P	50 - 150
Tolfenpyrad	105	111	P/P	60 - 150
Triclopyr	105	119	P/P	50 - 150

Reference Method: EPA 8270E

Run ID: A111718

Included Lab Sample IDs: 2318482, 2318484

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fipronil Sulfone	92.8		P	80 - 120
Fludioxonil	102		P	80 - 120
Hexazinone	96.0		P	80 - 120

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	102					0.454	
EPA 200.7 Rev. 4.4	Calcium	106	106	103				0.844
	Iron	107	108	108	102			0.225
	Magnesium	108	108	107	108			0.267
	Potassium	105	106	105	108			0.909
	Sodium	105	105	108				0.801
	Strontium	104	104	106	106			1.27
	Tin	101	97.8	102	102			4.07
	Titanium	102	100	102	104			2.01
	Vanadium	95.2	95.7	97.1	98.8			1.38
	Zinc	97.8	96.3	97.9	98.5			1.62
EPA 200.8 Rev. 5.4	Aluminum	104	104	105	102			1.87
	Antimony	104	107	106	106			0.101
	Arsenic	105	106	105	104			0.411
	Barium	107	110	107	106			0.673
	Beryllium	104	104	100	99.3			0.966
	Boron	109	106	105	110			0.864
	Cadmium	103	104	105	107			2.52
	Chromium	101	103	102				0.880
	Cobalt	106	106	106	104			1.88
	Copper	101	98.4	100	98.9			1.30
	Lead	104	106	106	105			1.08
	Manganese	101	101	104	101			1.98
	Molybdenum	104	83.5	107	106			0.595
	Nickel	104	101	101	100			0.999
	Selenium	101	103	100	101			0.795
	Silver	104	105	105	103			2.01
	Thallium	107	110	111	111			0.287
EPA 300.0 Rev. 2.1	Chloride	98.1	96.7	99.6			0.216	
	Sulfate	98.6	96.9	99.7			0.407	
EPA 350.1 Rev. 2.0	Ammonia-N	99.6	100	103				1.92
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	95.2	97.3	94.3				1.93
EPA 353.2 Rev. 2.0	NO2NO3-N	99.5	96.2	96.7				0.375
EPA 365.1 Rev. 2.0	Total-P	98.2	101	102				1.22
EPA 8270E	Acetochlor	87.7	100	113				11.8
	Alachlor	92.3	94.4	109				14.2
	Aldrin	47.4	64.4	64.7				0.350
	Alpha-BHC	96.4	94.2	95.4				1.23
	Alpha-Chlordane	78.6	72.7	72.2				0.737
	Ametryn	103	132	126				4.70
	Atrazine	105						5.73
	Atrazine Desethyl	64.9	43.6	51.0				10.3
	Avobenzone	91.4	85.1	92.0				7.73
	Azinphos Methyl	107	106	99.2				6.45
	Azoxystrobin	142	118	126				5.72
	Beta-BHC	102	118	120				1.77
	Beta-Cyfluthrin	65.1	78.7	79.6				1.25
	Bifenthrin	47.0	61.7	63.5				2.92
	Bromacil	66.7	68.9	100				29.7
	Butylate	74.3	50.3	41.4				19.3
	Caffeine	76.0	85.9	85.4				0.662
	Carbophenothion	119	70.1	54.7				24.6
	Carfentrazone Ethyl	129	123	116				6.27
	Chlorfenapyr	122	59.9	64.6				7.51

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Chlorothalonil	47.8	129	157			18.9
	Chlorpyrifos Ethyl	86.3	77.5	91.3			16.4
	Chlorpyrifos Methyl	71.6	74.1	95.2			25.0
	Cis-Nonachlor	67.6	66.7	72.7			8.63
	Coumaphos	65.0	161	166			3.28
	Cyanazine	179	58.7	70.1			17.7
	Cypermethrin	65.6	84.2	84.6			0.458
	Cyprodinil	59.0	68.7	92.8			29.9
	Dacthal	89.4	87.8	87.9			0.0569
	DDD-p,p'	73.4	73.0	73.2			0.340
	DDE-p,p'	74.6	75.9	75.7			0.320
	DDT-p,p'	74.1	80.7	80.5			0.186
	Delta-BHC	107	126	131			4.15
	Deltamethrin	76.5	60.7	63.2			4.11
	Demeton	71.4	65.7	76.6			15.3
	Diazinon	72.4	69.6	81.2			15.3
	Dichlobenil	89.7	61.3	56.2			8.80
	Dicofol	72.3	77.1	76.2			1.15
	Dieldrin	76.7	78.4	80.2			2.03
	Difenoconazole	62.8	101	105			4.46
	Dimethenamid	69.6	73.2	87.0			17.2
	Dimethomorph	170	179	158			12.4
	Disulfoton	72.2	63.3	74.4			16.1
	Dithiopyr	86.8	90.2	80.9			10.9
	Endosulfan I	80.2	81.4	82.1			0.849
	Endosulfan II	78.0	72.9	74.6			2.32
	Endosulfan Sulfate	87.7	80.0	78.9			1.43
	Endrin	77.6	79.1	78.6			0.626
	Endrin Aldehyde	100	81.8	86.1			5.18
	Endrin Ketone	103	96.2	140			37.4
	EPTC	61.6	54.8	49.7			9.88
	Esfenvalerate	67.4	86.9	86.5			0.483
	Ethalfuralin	80.1	86.9	87.4			0.606
	Ethion	36.3	45.3	30.3			39.8
	Ethoprop	104	83.3	87.8			5.28
	Etridiazole	69.2	58.1	62.9			7.93
	Fenamiphos	71.8	69.4	61.7			11.7
	Fenbuconazole	84.1	79.9	92.0			14.2
	Fenpropathrin	60.8	77.1	77.2			0.113
	Fipronil	67.8	72.3	73.0			0.934
	Fipronil Desulfinyl	118	111	125			11.8
	Fipronil Sulfide	113	50.4	50.1			0.580
	Fipronil Sulfone	116	60.9	63.7			4.42
	Fluazifop-P-butyl	110	57.9	72.6			22.6
	Fludioxonil	126	70.0	86.3			20.9
	Flumioxazin	62.2	121	105			13.4
	Flutolanil	71.1	70.8	76.0			7.09
	Fluxapyroxad	59.6	61.7	75.8			20.4
	Fonofos	70.1	91.8	92.1			0.386
	Gamma-BHC	94.4	99.1	104			4.68
	Gamma-Chlordane	72.7	78.4	77.8			0.730
	Heptachlor	70.4	76.0	75.7			0.488
	Heptachlor Epoxide	92.6	96.8	94.0			2.89
	Hexachlorobenzene	73.7	82.7	83.0			0.405

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Hexazinone	80.1	105	113			6.91
	Imazalil	47.7	80.0	75.8			5.35
	Iprodione	70.8	73.5	87.7			17.7
	Kepone	108	58.0	68.3			5.54
	Lambda-Cyhalothrin	51.3	72.8	75.6			3.76
	Loratadine	220	147	145			1.88
	Malathion	77.3	77.2	93.8			19.4
	Metalaxyl	57.8	71.8	102			32.3
	Methoprene	48.8	71.0	72.1			1.49
	Methoxychlor	85.4	98.5	97.3			1.20
	Metolachlor	78.0	96.1	119			18.2
	Metribuzin	89.1	93.6	90.9			2.91
	Mevinphos	80.7	66.1	63.9			3.27
	MGK-264	72.4	82.1	79.5			3.23
	Mirex	52.9	60.6	62.2			2.61
	Molinate	60.0	74.2	75.2			1.33
	Myclobutanil	66.1	71.6	86.8			19.1
	Naled	75.6	77.9	86.8			10.8
	Napropamide	53.2	53.5	58.1			8.26
	Norflurazon	110	115	113			1.05
	Octinoxate	85.2	74.6	80.6			7.63
	Oxadiazon	65.2	66.3	76.7			13.0
	Oxybenzone	77.1	70.2	82.5			16.1
	Oxychlordane	78.6	79.3	82.9			4.45
	Oxyfluorfen	76.6	89.8	103			13.2
	Parathion Ethyl	98.3	107	97.1			9.97
	Parathion Methyl	86.2	105	99.4			5.39
	PCB-1016	83.8	85.4	82.1			3.95
	PCB-1260	101	84.4	86.1			2.02
	Pendimethalin	78.5	111	96.1			13.9
	Permethrin	64.6	77.8	79.3			1.88
	Phenothrin	39.8	65.1	66.4			2.08
	Phenytoin	15.6	4.46	17.5			119
	Phorate	83.5	99.8	95.3			4.56
	Piperonyl Butoxide	96.3	93.3	96.5			3.38
	Prallethrin	69.6	75.1	79.2			5.33
	Prodiamine	31.8	213	117			58.3
	Prometon	74.2	94.5	89.3			5.66
	Prometryn	95.6	109	98.7			9.58
	Pronamide	100	80.8	101			22.3
	Propanil	85.5	121	117			2.70
	Propargite	90.0	91.6	87.0			5.18
	Propiconazole	109	109	96.8			12.3
	Pyraflufen Ethyl	108	105	84.8			20.9
	Pyridaben	71.3	53.7	54.2			0.855
	Pyriproxyfen	78.5	78.7	88.3			11.5
	Simazine	98.3	95.2	79.5			10.3
	Stirophos	35.9	89.5	83.1			7.39
	Sulfentrazone	48.7	71.1	73.7			3.20
	Tau-Fluvalinate	52.4	70.2	70.2			0.0401
	Tebuconazole	15.3	92.0	82.1			11.3
	Terbufos	105	82.2	92.1			11.4
	Terbuthylazine	75.8	71.0	76.2			7.04
	Tetramethrin	86.5	106	102			3.60

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Thiobencarb	76.7	83.0	97.2			15.7
	Trans-Nonachlor	66.6	72.5	76.1			4.79
	Triadimefon	100	71.0	81.0			13.1
	Triclosan Methyl	78.9	79.6	80.2			0.745
	Trifluralin	75.6	86.1	86.6			0.503
EPA 8276	Chlordane	96.4	91.5	88.2			3.63
	Toxaphene	81.2	90.1	90.5			0.501
EPA 8321B	2,4-D	98.5	77.0	93.1			19.0
	2,4,5-T	74.5	72.1	75.2			4.17
	3-Hydroxycarbofuran	93.1	93.5	104			10.8
	Acesulfame K	86.5	95.8	101			4.94
	Acetaminophen	65.9	102	97.5			4.53
	Acetamiprid	102	85.8	74.4			14.3
	Afidopyropen	99.0	80.8	74.7			7.90
	Aldicarb	81.9	63.1	110			54.3
	Aldicarb Sulfone	102	95.3	112			16.4
	Aldicarb Sulfoxide	115	57.8	59.7			3.26
	AMPA	99.5	80.2	91.9			12.5
	Bentazon	93.7	81.3	79.8			1.89
	Benzovindiflupyr	101	108	98.8			8.82
	Carbamazepine	115	112	110			2.45
	Carbaryl	79.2	65.4	64.1			1.96
	Carbofuran	97.5	91.9	106			13.8
	Clothianidin	104	95.4	96.2			0.793
	Dinotefuran	101	112	110			1.89
	Diuron	76.7	94.1	93.8			0.255
	Endothall	114	115	122			5.70
	Fenuron	114	142	156			9.54
	Fluridone	95.3	93.2	91.5			1.85
	Glufosinate	109	110	112			1.81
	Glyphosate	127	101	117			14.5
	Hydrocodone	97.9	94.9	104			8.98
	Ibuprofen	108	127	130			1.80
	Imazapyr	107	102	90.8			11.2
	Imidacloprid	94.3	115	98.9			14.9
	Linuron	78.3	75.8	59.2			24.7
	Mandestrobin	108	93.0	101			8.33
	MCPP	110	115	94.7			19.7
	Methiocarb	83.4	86.3	92.8			7.20
	Methomyl	96.2	88.7	96.5			8.46
	Naproxen	81.0	70.5	55.6			23.6
	Oxamyl	106	93.4	102			8.63
	Primidone	116	140	138			1.73
	Propoxur	89.4	74.9	81.1			7.91
	Pyraclostrobin	86.0	87.1	86.0			1.32
	Silvex	66.9	61.0	59.7			2.26
	Sucralose	78.2	74.2	81.7			9.25
	Thiamethoxam	113	116	115			0.550
	Tolfenpyrad	48.5	45.0	46.8			3.91
	Triclopyr	71.2	74.1	65.8			11.9
SM 2320 B-2011	Total Alkalinity	98.1				0.409	
SM 2540 C-2011	TDS					2.51	
SM 4500-F- C-2011	Fluoride	98.5	98.4	96.8			1.50
SM 5310 B-2011	Organic Carbon	96.5	96.3	99.2			2.26

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2318471
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2318485, 2318486
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2318485, 2318486
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2318471
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2318471
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2318472
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2318472
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2318472
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2318472
EPA 8270E	Analysis of Sunscreen Compounds in Water by GC/MS-SIM	2318482, 2318484
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2318481, 2318483
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2318482, 2318484
EPA 8270E	PCBs in water matrices by GC/MS/MS	2318481, 2318483
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2318481, 2318483
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2318476, 2318478
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2318477, 2318479, 2318480
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2318471
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2318485, 2318486
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2318471
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2318471
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2318471
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2318472

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	04/12/2022			04/12/2022 16:20	Anna M. Plaviak	2318471
EPA 200.7 Rev. 4.4	04/12/2022	04/14/2022 10:32	Megan Whitefoot	04/21/2022 00:39	Josef B Mick	2318485
	04/12/2022	04/14/2022 10:32	Megan Whitefoot	04/21/2022 00:47	Josef B Mick	2318486
EPA 200.8 Rev. 5.4	04/12/2022	04/14/2022 10:32	Megan Whitefoot	04/15/2022 17:22	Alexander Thompson	2318485
	04/12/2022	04/14/2022 10:32	Megan Whitefoot	04/15/2022 17:31	Alexander Thompson	2318486
	04/12/2022	04/14/2022 10:32	Megan Whitefoot	04/18/2022 12:05	Alexander Thompson	2318485
	04/12/2022	04/14/2022 10:32	Megan Whitefoot	04/18/2022 12:11	Alexander Thompson	2318486
EPA 300.0 Rev. 2.1	04/12/2022			04/15/2022 16:46	Anna M. Plaviak	2318471
EPA 350.1 Rev. 2.0	04/12/2022			04/14/2022 13:48	Judith K. Clark	2318472
EPA 351.2 Rev. 2.0	04/12/2022	04/20/2022 14:26	Samantha L Bates	04/21/2022 13:47	Samantha L Bates	2318472
EPA 353.2 Rev. 2.0	04/12/2022			04/13/2022 16:30	Nathaniel J Jones	2318472
EPA 365.1 Rev. 2.0	04/12/2022	04/19/2022 14:35	Simonne.V. Calhoun	04/20/2022 19:04	Sarah A Nixon	2318472
EPA 8270E	04/12/2022	04/15/2022 08:00	Fe-Val Siddell	04/18/2022 22:25	Michael Poppell	2318482
	04/12/2022	04/15/2022 08:00	Fe-Val Siddell	04/18/2022 22:51	Michael Poppell	2318484
	04/12/2022	04/15/2022 08:00	Fe-Val Siddell	04/21/2022 20:18	Lipi Saha	2318482
	04/12/2022	04/15/2022 08:00	Fe-Val Siddell	04/21/2022 20:42	Lipi Saha	2318484
	04/12/2022	04/15/2022 08:00	Fe-Val Siddell	04/25/2022 22:07	Michael Poppell	2318482
	04/12/2022	04/15/2022 08:00	Fe-Val Siddell	04/25/2022 22:33	Michael Poppell	2318484
	04/12/2022	04/15/2022 08:00	Rasheda Ghaffari	04/18/2022 23:35	Julie Wi	2318481
	04/12/2022	04/15/2022 08:00	Rasheda Ghaffari	04/19/2022 00:05	Julie Wi	2318483
	04/12/2022	04/15/2022 08:00	Rasheda Ghaffari	04/19/2022 21:12	Vandana T. Nagar	2318481
	04/12/2022	04/15/2022 08:00	Rasheda Ghaffari	04/19/2022 21:41	Vandana T. Nagar	2318483
EPA 8276	04/12/2022	04/15/2022 08:00	Rasheda Ghaffari	04/20/2022 11:41	Arthur Maknenko	2318481
	04/12/2022	04/15/2022 08:00	Rasheda Ghaffari	04/20/2022 12:37	Arthur Maknenko	2318483
EPA 8321B	04/12/2022	04/14/2022 08:30	June Rhew	04/16/2022 03:09	Juyoung Kim	2318477
	04/12/2022	04/14/2022 08:30	June Rhew	04/16/2022 03:44	Juyoung Kim	2318479
	04/12/2022	04/14/2022 08:30	June Rhew	04/16/2022 04:18	Juyoung Kim	2318480
	04/12/2022	04/14/2022 11:00	Manjita Shrestha	04/15/2022 18:14	Manjita Shrestha	2318477
	04/12/2022	04/14/2022 11:00	Manjita Shrestha	04/15/2022 18:29	Manjita Shrestha	2318479
	04/12/2022	04/14/2022 11:00	Manjita Shrestha	04/15/2022 18:44	Manjita Shrestha	2318480
	04/12/2022	04/14/2022 11:00	Manjita Shrestha	04/16/2022 04:21	Manjita Shrestha	2318477
	04/12/2022	04/14/2022 11:00	Manjita Shrestha	04/16/2022 04:33	Manjita Shrestha	2318479
	04/12/2022	04/14/2022 11:00	Manjita Shrestha	04/16/2022 04:46	Manjita Shrestha	2318480
	04/12/2022	04/15/2022 14:00	June Rhew	04/16/2022 10:39	Juyoung Kim	2318476
	04/12/2022	04/15/2022 14:00	June Rhew	04/16/2022 11:14	Juyoung Kim	2318478
SM 2320 B-2011	04/12/2022			04/20/2022 08:17	Dale L. Simmons	2318471
SM 2340 B-2011	04/12/2022			04/21/2022 00:39	Josef B Mick	2318485
	04/12/2022			04/21/2022 00:47	Josef B Mick	2318486
SM 2540 C-2011	04/12/2022			04/13/2022 14:02	Yijie Li	2318471
SM 2540 D-2011	04/12/2022			04/13/2022 14:26	Yijie Li	2318471

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 4500-F- C-2011	04/12/2022			04/20/2022 08:17	Dale L. Simmons	2318471
SM 5310 B-2011	04/12/2022			04/15/2022 16:57	Judith K. Clark	2318472