

Chemical Analysis Report

NW-DIST-2022-01-12-01

Florida Department of Environmental Protection
Central Laboratory
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DOH Accreditation E31780

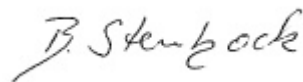
Event Description: **Pensacola Run**
Request ID: **RQ-2022-01-10-29**
Customer: **NW-DIST**
Project ID: **SMP**

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

Date Certified: 02-FEB-2022 18:30



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: Jackson Creek downstream of Old Corry Rd. Collection Date/Time: 01/11/2022 09:20

Field ID: G4NW0412

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2299121	EPA 200.7 Rev. 4.4	Calcium	13.8		mg/L	P408532	
		Iron	130		ug/L	P408532	
		Magnesium	2.70		mg/L	P408532	
		Potassium	1.6		mg/L	P408532	
		Sodium	9.1		mg/L	P408532	
		Strontium	45.5		ug/L	P408532	
		Tin	3.0	U	ug/L	P408532	
		Titanium	3.0	I	ug/L	P408532	
		Vanadium	2.0	U	ug/L	P408532	
	EPA 200.8 Rev. 5.4	Zinc	11	I	ug/L	P408532	
		Aluminum	207		ug/L	P408532	
		Antimony	0.13	I	ug/L	P408532	
		Arsenic	0.20		ug/L	P408532	
		Barium	31.8		ug/L	P408532	
		Beryllium	0.023	I	ug/L	P408532	
		Boron**	39.5		ug/L	P408532	
		Cadmium	0.059	I	ug/L	P408532	
		Chromium	0.40	U	ug/L	P408532	
		Cobalt	0.319		ug/L	P408532	
		Copper	1.0		ug/L	P408532	
		Lead	0.39	I	ug/L	P408532	
		Manganese	16.6		ug/L	P408532	
		Molybdenum	0.15	U	ug/L	P408532	
		Nickel	0.50	U	ug/L	P408532	
		Selenium	0.55	I	ug/L	P408532	
		Silver	0.010	U	ug/L	P408710	
		Thallium	0.10	U	ug/L	P408532	

Ref. Method and Comment:

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

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

Sample Location: Jackson Creek upstream of Prieto Drive

Collection Date/Time: 01/11/2022 09:45

Field ID: G4NW0505

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2299122	EPA 200.7 Rev. 4.4	Calcium	8.76		mg/L	P408532	
		Iron	210		ug/L	P408532	
		Magnesium	1.96		mg/L	P408532	
		Potassium	1.3		mg/L	P408532	
		Sodium	8.7		mg/L	P408532	
		Strontium	27.9		ug/L	P408532	
		Tin	3.0	U	ug/L	P408532	
		Titanium	5.0		ug/L	P408532	
		Vanadium	2.0	U	ug/L	P408532	
	EPA 200.8 Rev. 5.4	Zinc	14	I	ug/L	P408532	
		Aluminum	524		ug/L	P408532	
		Antimony	0.20		ug/L	P408532	
		Arsenic	0.20		ug/L	P408532	
		Barium	26.5		ug/L	P408532	
		Beryllium	0.038	I	ug/L	P408532	
		Boron**	35.1		ug/L	P408532	
		Cadmium	0.088		ug/L	P408532	
		Chromium	0.68	I	ug/L	P408532	
		Cobalt	0.420		ug/L	P408532	
		Copper	1.88		ug/L	P408532	
		Lead	1.65		ug/L	P408532	
		Manganese	15.1		ug/L	P408532	
		Molybdenum	0.16	I	ug/L	P408532	
		Nickel	0.56	I	ug/L	P408532	
		Selenium	0.55	I	ug/L	P408532	
		Silver	0.010	U	ug/L	P408710	
		Thallium	0.10	U	ug/L	P408532	

Ref. Method and Comment:

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for boron and manganese are unavailable for one of two spiked samples because of high analyte concentration in the QC sample. The lead result was confirmed in the undigested sample on 01/18/2022.

Sample Location: Jones Creek upstream of N Navy Blvd

Collection Date/Time: 01/11/2022 10:00

Field ID: G4NW0429

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2299108	EPA 8321B	2,4-D	0.0020	U	ug/L	P408408	
		Acesulfame K	0.10	I J	ug/L	P408383	SUR
		AMPA	0.10	U	ug/L	P408383	
		2,4,5-T	0.0040	U	ug/L	P408408	
		Acetaminophen	0.0080	U	ug/L	P408408	
		Acetamiprid	0.0020	U	ug/L	P408408	
		Endothall	0.25	UJ	ug/L	P408383	SUR
		Glufosinate	0.10	U	ug/L	P408383	
		Glyphosate	0.10	U	ug/L	P408383	
		Afidopyropen	0.0020	U	ug/L	P408408	RPD
		Sucralose	0.65		ug/L	P408383	
		Bentazon	0.0025	I	ug/L	P408408	
		Benzovindiflupyr	0.0020	U	ug/L	P408408	
		Carbamazepine	8.8E-04	I	ug/L	P408408	
		Clothianidin	0.0020	U	ug/L	P408408	
		Dinotefuran	0.0020	U	ug/L	P408408	
		Diuron	0.0020	U	ug/L	P408408	
		Fenuron	0.016	U	ug/L	P408408	
		Fluridone	8.0E-04	U	ug/L	P408408	
		Imazapyr	0.0068	I	ug/L	P408408	
		Hydrocodone	0.0020	U	ug/L	P408408	
		Ibuprofen	0.020	U	ug/L	P408408	
		Imidacloprid	0.0054	I	ug/L	P408408	MS
		Linuron	0.0040	U	ug/L	P408408	RPD
		Mandestrobin	0.0020	U	ug/L	P408408	
		MCPP	0.0040	U	ug/L	P408408	
		Naproxen	0.0080	U	ug/L	P408408	
		Primidone	0.0040	U	ug/L	P408408	
		Pyraclostrobin	0.0020	U	ug/L	P408408	
		Silvex	0.0040	U	ug/L	P408408	
		Thiamethoxam	0.0020	U	ug/L	P408408	MS
		Tolfenpyrad	0.0020	U	ug/L	P408408	
		Triclopyr	0.0040	U	ug/L	P408408	

Ref. Method and Comment:
EPA 8321B: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Jones Creek Behind PSC

Collection Date/Time: 01/11/2022 10:26

Field ID: G4NW0130

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2299109	EPA 8321B	2,4-D	0.0020	U	ug/L	P408408	
		Acesulfame K	0.10	U	ug/L	P408383	
		2,4,5-T	0.0040	U	ug/L	P408408	
		AMPA	0.10	U	ug/L	P408383	
		Acetaminophen	0.0080	U	ug/L	P408408	
		Acetamiprid	0.0020	U	ug/L	P408408	
		Endothall	0.25	U	ug/L	P408383	
		Glufosinate	0.10	U	ug/L	P408383	
		Glyphosate	0.10	U	ug/L	P408383	
		Afidopyropen	0.0020	U	ug/L	P408408	RPD
		Bentazon	0.0027	I	ug/L	P408408	
		Sucralose	0.62		ug/L	P408383	
		Benzovindiflupyr	0.0020	U	ug/L	P408408	
		Carbamazepine	8.0E-04	I	ug/L	P408408	
		Clothianidin	0.0020	U	ug/L	P408408	
		Dinotefuran	0.0020	U	ug/L	P408408	
		Diuron	0.0020	U	ug/L	P408408	
		Fenuron	0.016	U	ug/L	P408408	
		Fluridone	8.0E-04	U	ug/L	P408408	
		Imazapyr	0.0060	I	ug/L	P408408	
		Hydrocodone	0.0020	U	ug/L	P408408	
		Ibuprofen	0.020	U	ug/L	P408408	
		Imidacloprid	0.0030	I	ug/L	P408408	MS
		Linuron	0.0040	U	ug/L	P408408	RPD
		Mandestrobin	0.0020	U	ug/L	P408408	
		MCPP	0.0040	U	ug/L	P408408	
		Naproxen	0.0080	U	ug/L	P408408	
		Primidone	0.0040	U	ug/L	P408408	
		Pyraclostrobin	0.0020	U	ug/L	P408408	
		Silvex	0.0040	U	ug/L	P408408	
		Thiamethoxam	0.0020	U	ug/L	P408408	MS
		Tolfenpyrad	0.0020	U	ug/L	P408408	
		Triclopyr	0.0040	U	ug/L	P408408	

Sample Location: Bayou Marcus Creek upstream of Patricia Drive Collection Date/Time: 01/11/2022 11:00

Field ID: G5NW0155

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2299114	EPA 8321B	Aldicarb	0.020	U	ug/L	P408407	
		Aldicarb Sulfone	0.0020	U	ug/L	P408407	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P408407	
		Carbaryl	0.0020	U	ug/L	P408407	
		Carbofuran	0.0020	U	ug/L	P408407	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P408407	
		Methiocarb	0.0020	U	ug/L	P408407	
		Methomyl	0.0020	U	ug/L	P408407	
		Oxamyl	0.0020	U	ug/L	P408407	
		Propoxur	0.0020	U	ug/L	P408407	
2299115		2,4-D	0.0020	U	ug/L	P408408	
		Acesulfame K	0.10	U	ug/L	P408383	
		2,4,5-T	0.0040	U	ug/L	P408408	
		AMPA	0.10	U	ug/L	P408383	
		Acetaminophen	0.0080	U	ug/L	P408408	
		Acetamiprid	0.0020	U	ug/L	P408408	
		Endothall	0.25	U	ug/L	P408383	
		Glufosinate	0.10	U	ug/L	P408383	
		Glyphosate	0.10	U	ug/L	P408383	
		Afidopyropen	0.0020	U	ug/L	P408408	RPD
		Bentazon	0.0025	I	ug/L	P408408	
		Sucralose	0.57		ug/L	P408383	
		Benzovindiflupyr	0.0020	U	ug/L	P408408	
		Carbamazepine	0.0031	I	ug/L	P408408	
		Clothianidin	0.0020	U	ug/L	P408408	
		Dinotefuran	0.0020	U	ug/L	P408408	
		Diuron	0.0020	U	ug/L	P408408	
		Fenuron	0.016	U	ug/L	P408408	
		Fluridone	8.0E-04	U	ug/L	P408408	
		Imazapyr	0.0040	U	ug/L	P408408	
		Hydrocodone	0.0020	U	ug/L	P408408	
		Ibuprofen	0.020	U	ug/L	P408408	
		Imidacloprid	0.016		ug/L	P408408	MS
		Linuron	0.0040	U	ug/L	P408408	RPD
		Mandestrobin	0.0020	U	ug/L	P408408	
		MCPP	0.0040	U	ug/L	P408408	
		Naproxen	0.0080	U	ug/L	P408408	
		Primidone	0.0040	U	ug/L	P408408	
		Pyraclostrobin	0.0020	U	ug/L	P408408	
		Silvex	0.0040	U	ug/L	P408408	
		Thiamethoxam	0.0020	U	ug/L	P408408	MS
		Tolfenpyrad	0.0020	U	ug/L	P408408	
		Triclopyr	0.0040	U	ug/L	P408408	
2299118	EPA 8270E	Aldrin	0.65	U	ng/L	P408463	

Field ID: G5NW0155

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2299118	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P408463	
		Alpha-Chlordane	0.20	U	ng/L	P408463	
		Beta-BHC	0.10	U	ng/L	P408463	
		Beta-Cyfluthrin**	1.2	U	ng/L	P408463	
		Bifenthrin**	0.50	U	ng/L	P408463	
		Chlorothalonil	1.2	U	ng/L	P408463	
		Cis-Nonachlor**	0.20	U	ng/L	P408463	
		Cypermethrin	1.5	U	ng/L	P408463	
		Dacthal**	0.15	U	ng/L	P408463	
		DDD-p,p'	0.25	U	ng/L	P408463	
		DDE-p,p'	0.20	U	ng/L	P408463	
		DDT-p,p'	0.25	U	ng/L	P408463	
		Delta-BHC	0.40	U	ng/L	P408463	
		Deltamethrin**	1.2	U	ng/L	P408463	
		Dichlobenil**	0.25	U	ng/L	P408463	RPD
		Dicofol	1.2	U	ng/L	P408463	
		Dieldrin	1.2	I	ng/L	P408463	
		Endosulfan I	0.40	U	ng/L	P408463	
		Endosulfan II	0.40	U	ng/L	P408463	
		Endosulfan Sulfate	0.30	U	ng/L	P408463	
		Endrin	0.40	U	ng/L	P408463	
		Endrin Aldehyde	0.75	U	ng/L	P408463	
		Endrin Ketone	0.40	U	ng/L	P408463	
		Esfenvalerate**	0.75	U	ng/L	P408463	
		Ethalfuralin**	0.15	U	ng/L	P408463	
		Fenpropathrin**	0.25	U	ng/L	P408463	
		Gamma-BHC	0.12	U	ng/L	P408463	
		Gamma-Chlordane	0.20	U	ng/L	P408463	
		Heptachlor	0.20	U	ng/L	P408463	
		Heptachlor Epoxide	0.92	I	ng/L	P408463	
		Hexachlorobenzene	1.0	U	ng/L	P408463	
		Kepone**	5.0	UJ	ng/L	P408463	CCV
		Lambda-Cyhalothrin**	0.75	U	ng/L	P408463	
		Methoprene**	0.75	U	ng/L	P408463	
		Methoxychlor	0.30	U	ng/L	P408463	
		MGK-264**	0.20	U	ng/L	P408463	
		Mirex	0.70	U	ng/L	P408463	
		Oxychlordane**	0.30	U	ng/L	P408463	
		Permethrin	1.6	U	ng/L	P408463	
		Phenothrin**	0.90	U	ng/L	P408463	
		Piperonyl Butoxide**	0.15	UJ	ng/L	P408463	CCV
		Prallethrin**	2.0	U	ng/L	P408463	
		Tau-Fluvalinate**	0.25	U	ng/L	P408463	
		Tetramethrin**	0.75	UJ	ng/L	P408463	CCV
		Trans-Nonachlor**	0.20	U	ng/L	P408463	

Field ID: G5NW0155

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2299118	EPA 8270E	Triclosan Methyl**	0.15	U	ng/L	P408463	
		Trifluralin	0.20	U	ng/L	P408463	
	EPA 8276	Chlordane	2.5	U	ng/L	P408463	
		Toxaphene	15	U	ng/L	P408463	
2299119	EPA 8270E	Acetochlor	0.26	U	ng/L	P408428	
		Alachlor	0.26	U	ng/L	P408428	
		Ametryn	0.61	U	ng/L	P408428	
		Atrazine	7.0		ng/L	P408428	
		Atrazine Desethyl	4.2	I	ng/L	P408428	
		Azinphos Methyl	2.0	U	ng/L	P408428	
		Azoxystrobin**	0.51	U	ng/L	P408428	
		Bromacil	11		ng/L	P408428	
		Butylate	0.41	U	ng/L	P408428	
		Caffeine**	7.7	U	ng/L	P408428	
		Carbophenothion	0.20	U	ng/L	P408428	
		Carfentrazone Ethyl**	0.10	U	ng/L	P408428	
		Chlorfenapyr**	0.18	U	ng/L	P408428	
		Chlorpyrifos Ethyl	0.26	U	ng/L	P408428	
		Chlorpyrifos Methyl	0.051	U	ng/L	P408428	
		Coumaphos**	0.51	U	ng/L	P408428	
		Cyanazine	3.3	U	ng/L	P408428	
		Cyprodinil**	0.10	U	ng/L	P408428	
		Demeton	1.5	U	ng/L	P408428	
		Diazinon	0.13	U	ng/L	P408428	
		Difenoconazole**	0.61	U	ng/L	P408428	
		Dimethenamid**	0.10	U	ng/L	P408428	
		Dimethomorph**	0.18	U	ng/L	P408428	
		Disulfoton	0.51	U	ng/L	P408428	
		Dithiopyr**	0.18	U	ng/L	P408428	
		EPTC	1.3	U	ng/L	P408428	
		Ethion	0.15	U	ng/L	P408428	
		Ethoprop	0.10	U	ng/L	P408428	
		Etridiazole**	0.15	U	ng/L	P408428	
		Fenamiphos	0.51	U	ng/L	P408428	
		Fenbuconazole**	0.13	U	ng/L	P408428	
		Fipronil	1.4		ng/L	P408428	
		Fipronil Desulfinyl**	0.38	I	ng/L	P408428	
		Fipronil Sulfide	0.59	I	ng/L	P408428	
		Fipronil Sulfone	3.2		ng/L	P408428	
		Fluazifop-P-butyl**	0.10	U	ng/L	P408428	
		Fludioxonil**	0.13	U	ng/L	P408428	
		Flumioxazin**	1.8	U	ng/L	P408428	
		Flutolanil**	0.57		ng/L	P408428	
		Fluxapyroxad**	0.14	I	ng/L	P408428	
		Fonofos	0.20	U	ng/L	P408428	

Field ID: G5NW0155

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2299119	EPA 8270E	Hexazinone	0.51	U	ng/L	P408428	
		Imazalil**	0.77	U	ng/L	P408428	
		Iprodione**	0.61	U	ng/L	P408428	
		Loratadine**	0.10	U	ng/L	P408428	
		Malathion	0.36	U	ng/L	P408428	
		Metalaxyl	1.3	I	ng/L	P408428	
		Metolachlor	2.6		ng/L	P408428	
		Metribuzin	2.6	U	ng/L	P408428	
		Mevinphos	1.1	UJ	ng/L	P408428	LCS, MS, RPD
		Molinate	0.31	U	ng/L	P408428	
		Myclobutanil**	0.26	U	ng/L	P408428	
		Naled**	1.5	U	ng/L	P408428	
		Napropamide**	0.41	U	ng/L	P408428	
		Norflurazon	0.51	U	ng/L	P408428	
		Oxadiazon	0.45	I	ng/L	P408428	
		Oxyfluorfen**	0.15	U	ng/L	P408428	
		Parathion Ethyl	0.26	U	ng/L	P408428	
		Parathion Methyl	0.56	U	ng/L	P408428	
		Pendimethalin	1.0	U	ng/L	P408428	
		Phenytol**	3.6	U	ng/L	P408428	
		Phorate	0.54	U	ng/L	P408428	
		Prodiamine**	0.18	U	ng/L	P408428	
		Prometon	0.92	U	ng/L	P408428	
		Prometryn	0.20	U	ng/L	P408428	
		Pronamide**	0.26	I	ng/L	P408428	
		Propanil**	0.13	U	ng/L	P408428	
		Propargite**	1.5	U	ng/L	P408428	
		Propiconazole**	0.69	I	ng/L	P408428	
		Pyraflufen Ethyl**	0.26	U	ng/L	P408428	
		Pyridaben**	0.46	U	ng/L	P408428	
		Pyriproxyfen**	0.13	U	ng/L	P408428	
		Simazine	2.8		ng/L	P408428	
		Stirophos**	0.13	U	ng/L	P408428	
		Sulfentrazone**	8.2		ng/L	P408428	
		Tebuconazole**	1.0	I	ng/L	P408428	
		Terbufos	0.10	U	ng/L	P408428	
		Terbuthylazine	0.43	U	ng/L	P408428	
		Thiobencarb**	0.61	U	ng/L	P408428	
		Triadimefon**	0.26	U	ng/L	P408428	

Ref. Method and Comment:

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

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

Sample Location: Marcus Creek upstream of Marcus Pointe Blvd Collection Date/Time: 01/11/2022 11:35

Field ID: G4NW0179

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2299081	EPA 180.1 Rev. 2.0	Turbidity	2.7		NTU	P408460	
	EPA 300.0 Rev. 2.1	Chloride	9.4		mg Cl/L	P409115	
		Sulfate	6.0		mg SO4/L	P409118	
		Color (true)**	19		PCU	P408448	
	SM 2120 B-2011	Total Alkalinity	72		mg CaCO3/L	P408539	
	SM 2540 C-2011	TDS	110	A	mg/L	P408873	
	SM 2540 D-2011	TSS	2	I	mg/L	P408773	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P408542	
2299082	EPA 350.1 Rev. 2.0	Ammonia-N	0.026		mg N/L	P408830	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.39		mg N/L	P408668	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.79		mg N/L	P408601	
	EPA 365.1 Rev. 2.0	Total-P	0.009		mg P/L	P408643	
	SM 5310 B-2011	Organic Carbon	3.9		mg C/L	P408584	
2299083	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P408454	
2299120	EPA 200.7 Rev. 4.4	Calcium	21.0		mg/L	P408532	
		Iron	500		ug/L	P408532	
		Magnesium	4.41		mg/L	P408532	
		Potassium	6.6		mg/L	P408532	
		Sodium	8.7		mg/L	P408532	
		Strontium	83.5		ug/L	P408532	
		Tin	3.0	U	ug/L	P408532	
	EPA 200.8 Rev. 5.4	Titanium	0.76	I	ug/L	P408532	
		Vanadium	2.0	U	ug/L	P408532	
		Zinc	5.0	U	ug/L	P408532	
		Aluminum	17	I	ug/L	P408532	
		Antimony	0.050	U	ug/L	P408532	
		Arsenic	0.22		ug/L	P408532	
		Barium	23.1		ug/L	P408532	
		Beryllium	0.010	I	ug/L	P408532	
		Boron**	147		ug/L	P408532	
		Cadmium	0.020	U	ug/L	P408532	
		Chromium	0.40	U	ug/L	P408532	
		Cobalt	0.121		ug/L	P408532	
		Copper	0.40	U	ug/L	P408532	
		Lead	0.20	U	ug/L	P408532	
		Manganese	48.5		ug/L	P408532	
		Molybdenum	0.15	U	ug/L	P408532	
		Nickel	0.50	U	ug/L	P408532	
		Selenium	0.20	U	ug/L	P408532	
		Silver	0.010	U	ug/L	P408710	
		Thallium	0.10	U	ug/L	P408532	
	SM 2340B	Hardness	70.5		mg/L	P408532	

Field ID: G4NW0179

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 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for boron and manganese are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: Carpenter Creek below Target Stormwater Pond

Collection Date/Time: 01/11/2022 12:40

Field ID: G4NW0244

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2299106	EPA 8321B	2,4-D	0.0020	U	ug/L	P408408	
		Acesulfame K	0.10	U	ug/L	P408383	
		2,4,5-T	0.0040	U	ug/L	P408408	
		AMPA	0.10	U	ug/L	P408383	
		Acetaminophen	0.0080	U	ug/L	P408408	
		Acetamiprid	0.0020	U	ug/L	P408408	
		Endothall	0.25	U	ug/L	P408383	
		Glufosinate	0.10	U	ug/L	P408383	
		Glyphosate	0.10	U	ug/L	P408383	
		Afidopyropen	0.0020	U	ug/L	P408408	RPD
		Bentazon	0.0013	I	ug/L	P408408	
		Sucralose	0.40		ug/L	P408383	
		Benzovindiflupyr	0.0020	U	ug/L	P408408	
		Carbamazepine	0.0022	I	ug/L	P408408	
		Clothianidin	0.0020	U	ug/L	P408408	
		Dinotefuran	0.0020	U	ug/L	P408408	
		Diuron	0.0022	I	ug/L	P408408	
		Fenuron	0.016	U	ug/L	P408408	
		Fluridone	8.0E-04	U	ug/L	P408408	
		Imazapyr	0.0040	U	ug/L	P408408	
		Hydrocodone	0.0020	U	ug/L	P408408	
		Ibuprofen	0.020	U	ug/L	P408408	
		Imidacloprid	0.029		ug/L	P408408	MS
		Linuron	0.0040	U	ug/L	P408408	RPD
		Mandestrobin	0.0020	U	ug/L	P408408	
		MCPP	0.0040	U	ug/L	P408408	
		Naproxen	0.0080	U	ug/L	P408408	
		Primidone	0.0040	U	ug/L	P408408	
		Pyraclostrobin	0.0020	U	ug/L	P408408	
		Silvex	0.0040	U	ug/L	P408408	
		Thiamethoxam	0.0020	U	ug/L	P408408	MS
		Tolfenpyrad	0.0020	U	ug/L	P408408	
		Triclopyr	0.0040	U	ug/L	P408408	
2299116	EPA 8270E	Aldrin	0.67	U	ng/L	P408463	
		Alpha-BHC	0.10	U	ng/L	P408463	
		Alpha-Chlordane	0.47	I	ng/L	P408463	
		Beta-BHC	0.10	U	ng/L	P408463	
		Beta-Cyfluthrin**	1.3	U	ng/L	P408463	
		Bifenthrin**	0.52	U	ng/L	P408463	
		Chlorothalonil	1.3	U	ng/L	P408463	
		Cis-Nonachlor**	0.21	U	ng/L	P408463	
		Cypermethrin	1.6	U	ng/L	P408463	
		Dacthal**	0.16	U	ng/L	P408463	

Field ID: G4NW0244

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2299116	EPA 8270E	DDD-p,p'	0.26	U	ng/L	P408463	
		DDE-p,p'	0.21	U	ng/L	P408463	
		DDT-p,p'	0.26	U	ng/L	P408463	
		Delta-BHC	0.41	U	ng/L	P408463	
		Deltamethrin**	1.3	U	ng/L	P408463	
		Dichlobenil**	0.26	U	ng/L	P408463	RPD
		Dicofol	1.3	U	ng/L	P408463	
		Dieldrin	4.9		ng/L	P408463	
		Endosulfan I	0.41	U	ng/L	P408463	
		Endosulfan II	0.41	U	ng/L	P408463	
		Endosulfan Sulfate	0.31	U	ng/L	P408463	
		Endrin	0.41	U	ng/L	P408463	
		Endrin Aldehyde	0.78	U	ng/L	P408463	
		Endrin Ketone	0.41	U	ng/L	P408463	
		Esfenvalerate**	0.78	U	ng/L	P408463	
		Ethalfuralin**	0.16	U	ng/L	P408463	
		Fenpropathrin**	0.26	U	ng/L	P408463	
		Gamma-BHC	0.13	U	ng/L	P408463	
		Gamma-Chlordane	0.31	I	ng/L	P408463	
		Heptachlor	0.21	U	ng/L	P408463	
		Heptachlor Epoxide	3.3		ng/L	P408463	
		Hexachlorobenzene	1.0	U	ng/L	P408463	
		Kepone**	5.2	UJ	ng/L	P408463	CCV
		Lambda-Cyhalothrin**	0.78	U	ng/L	P408463	
		Methoprene**	0.78	U	ng/L	P408463	
		Methoxychlor	0.31	U	ng/L	P408463	
		MGK-264**	0.21	U	ng/L	P408463	
		Mirex	0.72	U	ng/L	P408463	
		Oxychlordane**	0.31	U	ng/L	P408463	
		Permethrin	1.7	U	ng/L	P408463	
		Phenothrin**	0.93	U	ng/L	P408463	
		Piperonyl Butoxide**	0.16	UJ	ng/L	P408463	CCV
		Prallethrin**	2.1	U	ng/L	P408463	
		Tau-Fluvalinate**	0.26	U	ng/L	P408463	
		Tetramethrin**	0.78	UJ	ng/L	P408463	CCV
		Trans-Nonachlor**	0.21	U	ng/L	P408463	
		Triclosan Methyl**	0.16	U	ng/L	P408463	
		Trifluralin	0.21	U	ng/L	P408463	
	EPA 8276	Chlordane	4.6	I	ng/L	P408463	
		Toxaphene	16	U	ng/L	P408463	

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

Sample Location: Ten Mile Creek upstream of Pine Forest Road Collection Date/Time: 01/11/2022 13:36

Field ID: G5NW0051

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2299110	EPA 8321B	2,4-D	0.0020	U	ug/L	P408408	
		Acesulfame K	0.10	U	ug/L	P408383	
		2,4,5-T	0.0040	U	ug/L	P408408	
		AMPA	0.10	U	ug/L	P408383	
		Acetaminophen	0.0080	U	ug/L	P408408	
		Acetamiprid	0.0020	U	ug/L	P408408	
		Endothall	0.25	U	ug/L	P408383	
		Glufosinate	0.10	U	ug/L	P408383	
		Glyphosate	0.10	U	ug/L	P408383	
		Afidopyropen	0.0020	U	ug/L	P408408	RPD
		Bentazon	8.0E-04	U	ug/L	P408408	
		Sucralose	0.34		ug/L	P408383	
		Benzovindiflupyr	0.0020	U	ug/L	P408408	
		Carbamazepine	8.0E-04	U	ug/L	P408408	
		Clothianidin	0.0020	U	ug/L	P408408	
		Dinotefuran	0.0020	U	ug/L	P408408	
		Diuron	0.0020	U	ug/L	P408408	
		Fenuron	0.016	U	ug/L	P408408	
		Fluridone	8.0E-04	U	ug/L	P408408	
		Imazapyr	0.0086	I	ug/L	P408408	
		Hydrocodone	0.0020	U	ug/L	P408408	
		Ibuprofen	0.020	U	ug/L	P408408	
		Imidacloprid	0.0034	I	ug/L	P408408	MS
		Linuron	0.0040	U	ug/L	P408408	RPD
		Mandestrobin	0.0020	U	ug/L	P408408	
		MCPP	0.0040	U	ug/L	P408408	
		Naproxen	0.0080	U	ug/L	P408408	
		Primidone	0.0045	I	ug/L	P408408	
		Pyraclostrobin	0.0020	U	ug/L	P408408	
		Silvex	0.0040	U	ug/L	P408408	
		Thiamethoxam	0.0020	U	ug/L	P408408	MS
		Tolfenpyrad	0.0020	U	ug/L	P408408	
		Triclopyr	0.0040	U	ug/L	P408408	

Sample Location: Ten Mile Creek above Powerlines

Collection Date/Time: 01/11/2022 13:55

Field ID: G5NW0045

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2299111	EPA 8321B	2,4-D	0.0020	U	ug/L	P408408	
		Acesulfame K	0.10	U	ug/L	P408383	
		2,4,5-T	0.0040	U	ug/L	P408408	
		AMPA	0.10	U	ug/L	P408383	
		Acetaminophen	0.0080	U	ug/L	P408408	
		Acetamiprid	0.0020	U	ug/L	P408408	
		Endothall	0.25	U	ug/L	P408383	
		Glufosinate	0.10	U	ug/L	P408383	
		Glyphosate	0.10	U	ug/L	P408383	
		Afidopyropen	0.0020	U	ug/L	P408408	RPD
		Bentazon	8.0E-04	U	ug/L	P408408	
		Sucralose	0.48		ug/L	P408383	
		Benzovindiflupyr	0.0020	U	ug/L	P408408	
		Carbamazepine	8.0E-04	U	ug/L	P408408	
		Clothianidin	0.0020	U	ug/L	P408408	
		Dinotefuran	0.0020	U	ug/L	P408408	
		Diuron	0.0020	U	ug/L	P408408	
		Fenuron	0.016	U	ug/L	P408408	
		Fluridone	8.0E-04	U	ug/L	P408408	
		Imazapyr	0.0052	I	ug/L	P408408	
		Hydrocodone	0.0020	U	ug/L	P408408	
		Ibuprofen	0.020	U	ug/L	P408408	
		Imidacloprid	0.0052	I	ug/L	P408408	MS
		Linuron	0.0040	U	ug/L	P408408	RPD
		Mandestrobin	0.0020	U	ug/L	P408408	
		MCPP	0.0040	U	ug/L	P408408	
		Naproxen	0.0080	U	ug/L	P408408	
		Primidone	0.0040	U	ug/L	P408408	
		Pyraclostrobin	0.0020	U	ug/L	P408408	
		Silvex	0.0040	U	ug/L	P408408	
		Thiamethoxam	0.0020	U	ug/L	P408408	MS
		Tolfenpyrad	0.0020	U	ug/L	P408408	
		Triclopyr	0.0040	U	ug/L	P408408	

Sample Location: Thompson Bayou at Greenbriar Road

Collection Date/Time: 01/11/2022 14:25

Field ID: G4NW0240

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2299112	EPA 8321B	2,4-D	0.0027	I	ug/L	P408408	
		Acesulfame K	0.10	U	ug/L	P408383	
		2,4,5-T	0.0040	U	ug/L	P408408	
		AMPA	0.10	U	ug/L	P408383	
		Acetaminophen	0.0080	U	ug/L	P408408	
		Acetamiprid	0.0020	U	ug/L	P408408	
		Endothall	0.25	U	ug/L	P408383	
		Glufosinate	0.10	U	ug/L	P408383	
		Glyphosate	0.10	U	ug/L	P408383	
		Afidopyropen	0.0020	U	ug/L	P408408	RPD
		Bentazon	0.0031	I	ug/L	P408408	
		Sucralose	0.26		ug/L	P408383	
		Benzovindiflupyr	0.0020	U	ug/L	P408408	
		Carbamazepine	0.0012	I	ug/L	P408408	
		Clothianidin	0.0020	U	ug/L	P408408	
		Dinotefuran	0.0020	U	ug/L	P408408	
		Diuron	0.0020	U	ug/L	P408408	
		Fenuron	0.016	U	ug/L	P408408	
		Fluridone	8.0E-04	U	ug/L	P408408	
		Imazapyr	0.0040	U	ug/L	P408408	
		Hydrocodone	0.0020	U	ug/L	P408408	
		Ibuprofen	0.020	U	ug/L	P408408	
		Imidacloprid	0.014		ug/L	P408408	MS
		Linuron	0.0040	U	ug/L	P408408	RPD
		Mandestrobin	0.0020	U	ug/L	P408408	
		MCPP	0.0040	U	ug/L	P408408	
		Naproxen	0.0080	U	ug/L	P408408	
		Primidone	0.0040	U	ug/L	P408408	
		Pyraclostrobin	0.0020	U	ug/L	P408408	
		Silvex	0.0040	U	ug/L	P408408	
		Thiamethoxam	0.0020	U	ug/L	P408408	MS
		Tolfenpyrad	0.0020	U	ug/L	P408408	
		Triclopyr	0.0040	U	ug/L	P408408	

Sample Location: Thompson Bayou 50m west of Edward Ball Trail (UWF)

Collection Date/Time: 01/11/2022 15:11

Field ID: G4NW0424

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2299113	EPA 8321B	2,4-D	0.0064	I	ug/L	P408408	
		Acesulfame K	0.10	U	ug/L	P408383	
		2,4,5-T	0.0040	U	ug/L	P408408	
		AMPA	0.10	U	ug/L	P408383	
		Acetaminophen	0.0080	U	ug/L	P408408	
		Acetamiprid	0.0020	U	ug/L	P408408	
		Endothall	0.25	U	ug/L	P408383	
		Glufosinate	0.10	U	ug/L	P408383	
		Glyphosate	0.10	U	ug/L	P408383	
		Afidopyropen	0.0020	U	ug/L	P408408	RPD
		Bentazon	0.0023	I	ug/L	P408408	
		Sucralose	0.27		ug/L	P408383	
		Benzovindiflupyr	0.0020	U	ug/L	P408408	
		Carbamazepine	0.0016	I	ug/L	P408408	
		Clothianidin	0.0020	U	ug/L	P408408	
		Dinotefuran	0.0020	I	ug/L	P408408	
		Diuron	0.0020	U	ug/L	P408408	
		Fenuron	0.016	U	ug/L	P408408	
		Fluridone	8.0E-04	U	ug/L	P408408	
		Imazapyr	0.0040	U	ug/L	P408408	
		Hydrocodone	0.0020	U	ug/L	P408408	
		Ibuprofen	0.020	U	ug/L	P408408	
		Imidacloprid	0.016		ug/L	P408408	MS
		Linuron	0.0040	U	ug/L	P408408	RPD
		Mandestrobin	0.0020	U	ug/L	P408408	
		MCPP	0.0040	U	ug/L	P408408	
		Naproxen	0.0080	U	ug/L	P408408	
		Primidone	0.0040	U	ug/L	P408408	
		Pyraclostrobin	0.0020	U	ug/L	P408408	
		Silvex	0.0040	U	ug/L	P408408	
		Thiamethoxam	0.0020	U	ug/L	P408408	MS
		Tolfenpyrad	0.0020	U	ug/L	P408408	
		Triclopyr	0.0040	U	ug/L	P408408	

Sample Location: Carpenter Creek upstream of 9th Avenue

Collection Date/Time: 01/11/2022 12:05

Field ID: G4NW0415

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2299107	EPA 8321B	2,4-D	0.0020	U	ug/L	P408408	
		Acesulfame K	0.10	U	ug/L	P408383	
		2,4,5-T	0.0040	U	ug/L	P408408	
		AMPA	0.10	U	ug/L	P408383	
		Acetaminophen	0.0080	U	ug/L	P408408	
		Acetamiprid	0.0020	U	ug/L	P408408	
		Endothall	0.25	U	ug/L	P408383	
		Glufosinate	0.10	U	ug/L	P408383	
		Glyphosate	0.10	U	ug/L	P408383	
		Afidopyropen	0.0020	U	ug/L	P408408	RPD
		Bentazon	0.0012	I	ug/L	P408408	
		Sucralose	0.50		ug/L	P408383	
		Benzovindiflupyr	0.0020	U	ug/L	P408408	
		Carbamazepine	0.0022	I	ug/L	P408408	
		Clothianidin	0.0020	U	ug/L	P408408	
		Dinotefuran	0.0020	U	ug/L	P408408	
		Diuron	0.0020	U	ug/L	P408408	
		Fenuron	0.016	U	ug/L	P408408	
		Fluridone	8.0E-04	U	ug/L	P408408	
		Imazapyr	0.0047	I	ug/L	P408408	
		Hydrocodone	0.0020	U	ug/L	P408408	
		Ibuprofen	0.020	U	ug/L	P408408	
		Imidacloprid	0.027		ug/L	P408408	MS
		Linuron	0.0040	U	ug/L	P408408	RPD
		Mandestrobin	0.0020	U	ug/L	P408408	
		MCPP	0.0040	U	ug/L	P408408	
		Naproxen	0.0080	U	ug/L	P408408	
		Primidone	0.0040	U	ug/L	P408408	
		Pyraclostrobin	0.0020	U	ug/L	P408408	
		Silvex	0.0040	U	ug/L	P408408	
		Thiamethoxam	0.0020	U	ug/L	P408408	MS
		Tolfenpyrad	0.0020	U	ug/L	P408408	
		Triclopyr	0.0040	U	ug/L	P408408	
2299117	EPA 8270E	Aldrin	0.66	U	ng/L	P408463	
		Alpha-BHC	0.10	U	ng/L	P408463	
		Alpha-Chlordane	0.49	I	ng/L	P408463	
		Beta-BHC	0.10	U	ng/L	P408463	
		Beta-Cyfluthrin**	1.3	U	ng/L	P408463	
		Bifenthrin**	0.51	U	ng/L	P408463	
		Carbophenothion	0.91	U	ng/L	P408463	
		Chlorothalonil	1.3	U	ng/L	P408463	
		Cis-Nonachlor**	0.20	U	ng/L	P408463	
		Cypermethrin	1.5	U	ng/L	P408463	
		Dacthal**	0.15	U	ng/L	P408463	

Field ID: G4NW0415

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2299117	EPA 8270E	DDD-p,p'	0.25	U	ng/L	P408463	
		DDE-p,p'	0.20	U	ng/L	P408463	
		DDT-p,p'	0.25	U	ng/L	P408463	
		Delta-BHC	0.41	U	ng/L	P408463	
		Deltamethrin**	1.3	U	ng/L	P408463	
		Dichlobenil**	0.25	U	ng/L	P408463	RPD
		Dicofol	1.3	U	ng/L	P408463	
		Dieldrin	4.2		ng/L	P408463	
		Endosulfan I	0.41	U	ng/L	P408463	
		Endosulfan II	0.41	U	ng/L	P408463	
		Endosulfan Sulfate	0.30	U	ng/L	P408463	
		Endrin	0.41	U	ng/L	P408463	
		Endrin Aldehyde	0.76	U	ng/L	P408463	
		Endrin Ketone	0.41	U	ng/L	P408463	
		Esfenvalerate**	0.76	U	ng/L	P408463	
		Ethalfuralin**	0.15	U	ng/L	P408463	
		Fenpropathrin**	0.25	U	ng/L	P408463	
		Gamma-BHC	0.13	U	ng/L	P408463	
		Gamma-Chlordane	0.35	I	ng/L	P408463	
		Heptachlor	0.20	U	ng/L	P408463	
		Heptachlor Epoxide	3.3		ng/L	P408463	
		Hexachlorobenzene	1.0	U	ng/L	P408463	
		Kepone**	5.1	UJ	ng/L	P408463	CCV
		Lambda-Cyhalothrin**	0.76	U	ng/L	P408463	
		Methoprene**	0.76	U	ng/L	P408463	
		Methoxychlor	0.30	U	ng/L	P408463	
		MGK-264**	0.20	U	ng/L	P408463	
		Mirex	0.71	U	ng/L	P408463	
		Oxychlordane**	0.30	U	ng/L	P408463	
		Permethrin	1.6	U	ng/L	P408463	
		Phenothrin**	0.91	U	ng/L	P408463	
		Piperonyl Butoxide**	0.15	UJ	ng/L	P408463	CCV
		Prallethrin**	2.0	U	ng/L	P408463	
		Tau-Fluvalinate**	0.25	U	ng/L	P408463	
		Tetramethrin**	0.76	UJ	ng/L	P408463	CCV
		Trans-Nonachlor**	0.20	U	ng/L	P408463	
		Triclosan Methyl**	0.15	U	ng/L	P408463	
		Trifluralin	0.20	U	ng/L	P408463	
	EPA 8276	Chlordane	5.0	I	ng/L	P408463	
		Toxaphene	15	U	ng/L	P408463	

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P408460

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P408532

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: P408532

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
Thallium	0.10	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P408710

Component	Result	Code	Units
Silver	0.010	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409115

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409118

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P408830

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408668

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P408601

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P408643

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P408454

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

Reference Method: EPA 8270E
Batch ID: P408428

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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
 Batch ID: P408428

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P408428

Component	Result	Code	Units
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
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
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
Batch ID: P408428

Component	Result	Code	Units
Phenytoin	3.5	U	ng/L
Phenytoin	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
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: P408463

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P408463

Component	Result	Code	Units
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
Carbophenothion	0.90	U	ng/L
Carbophenothion	0.90	U	ng/L
Chlorothalonil	1.2	U	ng/L
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P408463

Component	Result	Code	Units
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.70	U	ng/L
Mirex	0.70	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	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: P408463

Component	Result	Code	Units
Chlordane	2.5	U	ng/L
Chlordane	2.5	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P408383

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: P408407

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

Reference Method: EPA 8321B

Batch ID: P408408

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	0.016	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P408408

Component	Result	Code	Units
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2120 B-2011
Batch ID: P408448

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P408539

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

Reference Method: SM 2540 C-2011
Batch ID: P408873

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P408773

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P408542

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P408584

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P408532

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	107		P	85 - 115
Iron	111		P	85 - 115
Magnesium	105		P	85 - 115
Potassium	103		P	85 - 115
Sodium	104		P	85 - 115
Strontium	103		P	85 - 115
Tin	109		P	85 - 115
Titanium	106		P	85 - 115
Vanadium	104		P	85 - 115
Zinc	105		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P408532

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	103		P	85 - 115
Antimony	101		P	85 - 115
Arsenic	98.6		P	85 - 115
Barium	106		P	85 - 115
Beryllium	102		P	85 - 115
Boron	97.1		P	85 - 115
Cadmium	99.3		P	85 - 115
Chromium	103		P	85 - 115
Cobalt	99.2		P	85 - 115
Copper	100		P	85 - 115
Lead	95.9		P	85 - 115
Manganese	103		P	85 - 115
Molybdenum	99.7		P	85 - 115
Nickel	101		P	85 - 115
Selenium	98.8		P	85 - 115
Thallium	105		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P408710

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Silver	102		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409115

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409118

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	96.6		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P408830

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408668

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P408601

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P408643

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	108		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P408454

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

Reference Method: EPA 8270E
Batch ID: P408428

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	96.2		P	70 - 121
Alachlor	85.4		P	68 - 119
Ametryn	102		P	64 - 139
Atrazine	87.9		P	76 - 120
Atrazine Desethyl	45.1		P	44 - 126
Azinphos Methyl	87.6		P	43 - 192
Azoxystrobin	98.7		P	36 - 224
Bromacil	70.8		P	52 - 121
Butylate	60.1		P	28 - 91.0
Caffeine	103		P	50 - 134
Carbophenothion	100		P	56 - 129
Carfentrazone Ethyl	95.0		P	60 - 141
Chlorfenapyr	82.6		P	56 - 115
Chlorpyrifos Ethyl	95.5		P	60 - 118
Chlorpyrifos Methyl	91.2		P	68 - 119
Coumaphos	155		P	18 - 250
Cyanazine	97.9		P	44 - 205
Cyprodinil	103		P	55 - 145
Demeton	69.0		P	41 - 118
Diazinon	98.5		P	70 - 123
Difenoconazole	78.1		P	49 - 204
Dimethenamid	76.8		P	64 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P408428

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dimethomorph	101		P	12 - 219
Disulfoton	86.1		P	44 - 125
Dithiopyr	89.9		P	64 - 115
EPTC	55.0		P	28 - 86.0
Ethion	90.9		P	33 - 125
Ethoprop	72.2		P	64 - 116
Etridiazole	57.9		P	34 - 91.0
Fenamiphos	96.3		P	59 - 126
Fenbuconazole	135		P	59 - 151
Fipronil	92.9		P	67 - 129
Fipronil Desulfinyl	90.5		P	65 - 127
Fipronil Sulfide	85.2		P	61 - 116
Fipronil Sulfone	81.1		P	55 - 117
Fluazifop-P-butyl	90.6		P	62 - 127
Fludioxonil	85.4		P	62 - 128
Flumioxazin	217		P	33 - 250
Flutolanil	72.5		P	56 - 127
Fluxapyroxad	125		P	45 - 128
Fonofos	85.3		P	62 - 111
Hexazinone	90.6		P	64 - 125
Imazalil	90.9		P	38 - 142
Iprodione	53.7		P	47 - 135
Loratadine	83.0		P	10 - 244
Malathion	93.6		P	61 - 139
Metalaxyl	81.7		P	57 - 127
Metolachlor	91.4		P	65 - 118
Metribuzin	87.3		P	47 - 161
Mevinphos	47.6		F	53 - 121
Molinate	69.3		P	42 - 96.0
Myclobutanil	84.3		P	55 - 128
Naled	87.5		P	10 - 98.0
Napropamide	86.6		P	49 - 121
Norflurazon	91.7		P	61 - 126
Oxadiazon	76.2		P	59 - 116
Oxyfluorfen	95.8		P	64 - 137
Parathion Ethyl	88.2		P	70 - 112
Parathion Methyl	105		P	76 - 133
Pendimethalin	73.5		P	52 - 117
Phenytol	65.7		P	10 - 199
Phorate	52.7		P	48 - 121
Prodiamine	89.9		P	10 - 136
Prometon	113		P	61 - 121
Prometryn	92.0		P	66 - 127
Pronamide	89.7		P	75 - 121
Propanil	72.4		P	45 - 150
Propargite	116		P	42 - 208
Propiconazole	99.0		P	60 - 125
Pyraflufen Ethyl	106		P	70 - 138
Pyridaben	171		P	35 - 245
Pyriproxyfen	44.9		P	30 - 149
Simazine	82.3		P	72 - 125
Stirophos	89.3		P	29 - 164

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P408428

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfentrazone	91.0		P	21 - 139
Tebuconazole	110		P	10 - 115
Terbufos	96.6		P	60 - 123
Terbutylazine	86.1		P	72 - 115
Thiobencarb	88.4		P	31 - 139
Triadimefon	86.7		P	65 - 116

Reference Method: EPA 8270E
Batch ID: P408463

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	58.8		P	10 - 93.0
Alpha-BHC	94.8		P	75 - 106
Alpha-Chlordane	84.4		P	50 - 109
Beta-BHC	109		P	65 - 135
Beta-Cyfluthrin	74.1		P	23 - 167
Bifenthrin	57.6		P	11 - 123
Carbophenothion	49.4		P	18 - 96.0
Chlorothalonil	84.8		P	26 - 182
Cis-Nonachlor	76.9		P	40 - 111
Cypermethrin	83.3		P	25 - 155
Dacthal	98.1		P	73 - 112
DDD-p,p'	85.2		P	47 - 108
DDE-p,p'	77.6		P	48 - 107
DDT-p,p'	75.5		P	49 - 111
Delta-BHC	112		P	68 - 143
Deltamethrin	84.1		P	16 - 176
Dichlobenil	96.5		P	32 - 113
Dicofol	77.3		P	50 - 108
Dieldrin	84.1		P	56 - 110
Endosulfan I	84.3		P	60 - 105
Endosulfan II	89.0		P	50 - 120
Endosulfan Sulfate	95.0		P	55 - 121
Endrin	84.3		P	35 - 117
Endrin Aldehyde	84.9		P	36 - 116
Endrin Ketone	123		P	56 - 130
Esfenvalerate	66.6		P	10 - 179
Ethalfuralin	78.3		P	49 - 99.0
Fenpropathrin	76.0		P	35 - 119
Gamma-BHC	101		P	72 - 115
Gamma-Chlordane	79.1		P	45 - 107
Heptachlor	72.6		P	41 - 100
Heptachlor Epoxide	90.8		P	58 - 106
Hexachlorobenzene	78.2		P	39 - 100
Kepone	134		P	10 - 191
Lambda-Cyhalothrin	68.6		P	10 - 186
Methoprene	47.0		P	10 - 129
Methoxychlor	94.9		P	61 - 111
MGK-264	85.8		P	20 - 123
Mirex	53.1		P	10 - 182
Oxychlordane	78.1		P	39 - 110
Permethrin	75.2		P	26 - 152

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P408463

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Phenothrin	47.3		P	10 - 109
Piperonyl Butoxide	96.1		P	27 - 142
Prallethrin	67.7		P	14 - 109
Tau-Fluvalinate	65.0		P	16 - 134
Tetramethrin	83.6		P	10 - 125
Trans-Nonachlor	78.7		P	45 - 107
Triclosan Methyl	87.6		P	60 - 110
Trifluralin	77.6		P	49 - 98.0

Reference Method: EPA 8276
Batch ID: P408463

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	78.0		P	61 - 118
Toxaphene	67.6		P	51 - 122

Reference Method: EPA 8321B
Batch ID: P408383

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	99.0		P	40 - 150
AMPA	99.9		P	40 - 160
Endothall	85.8		P	40 - 150
Glufosinate	104		P	40 - 160
Glyphosate	100		P	40 - 160
Sucralose	111		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P408407

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	43.6		P	40 - 150
Aldicarb	63.5		P	30 - 150
Aldicarb Sulfone	102		P	40 - 150
Aldicarb Sulfoxide	107		P	40 - 150
Carbaryl	90.3		P	40 - 150
Carbofuran	108		P	40 - 150
Methiocarb	94.3		P	40 - 150
Methomyl	101		P	40 - 150
Oxamyl	100		P	40 - 150
Propoxur	103		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P408408

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	123		P	40 - 150
2,4,5-T	132		P	40 - 150
Acetaminophen	75.3		P	30 - 150
Acetamiprid	101		P	40 - 150
Afidopyropen	83.8		P	40 - 150
Bentazon	96.6		P	30 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P408408

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Benzovindiflupyr	99.1		P	40 - 150
Carbamazepine	105		P	40 - 150
Clothianidin	101		P	40 - 150
Dinotefuran	94.8		P	40 - 150
Diuron	95.7		P	40 - 150
Fenuron	101		P	40 - 150
Fluridone	96.1		P	40 - 150
Hydrocodone	89.0		P	40 - 150
Ibuprofen	138		P	40 - 150
Imazapyr	105		P	40 - 150
Imidacloprid	103		P	40 - 150
Linuron	91.4		P	40 - 150
Mandestrobin	99.6		P	40 - 150
MCPP	121		P	40 - 150
Naproxen	112		P	40 - 150
Primidone	106		P	40 - 150
Pyraclostrobin	90.3		P	40 - 150
Silvex	111		P	40 - 150
Thiamethoxam	96.7		P	40 - 150
Tolfenpyrad	46.3		P	30 - 150
Triclopyr	107		P	40 - 150

Reference Method: SM 2120 B-2011

Batch ID: P408448

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.0		P	85 - 115

Reference Method: SM 2320 B-2011

Batch ID: P408539

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.7		P	94 - 106

Reference Method: SM 4500 F-C-2011

Batch ID: P408542

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	93 - 104

Reference Method: SM 5310 B-2011

Batch ID: P408584

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P408532

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2299120	Calcium	105		P	80 - 120
2299120	Iron	109	109	P/P	80 - 120
2299120	Magnesium	103		P	80 - 120
2299120	Potassium	102		P	80 - 120
2299120	Sodium	105		P	80 - 120
2299120	Strontium	102	101	P/P	80 - 120
2299120	Tin	110	108	P/P	80 - 120
2299120	Titanium	106	105	P/P	80 - 120
2299120	Vanadium	105	104	P/P	80 - 120
2299120	Zinc	103	102	P/P	80 - 120
2299211	Iron	111		P	80 - 120
2299211	Magnesium	104		P	80 - 120
2299211	Potassium	107		P	80 - 120
2299211	Sodium	100		P	80 - 120
2299211	Strontium	102		P	80 - 120
2299211	Tin	103		P	80 - 120
2299211	Titanium	105		P	80 - 120
2299211	Vanadium	106		P	80 - 120
2299211	Zinc	103		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P408532

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2299120	Aluminum	99.7	99.3	P/P	80 - 120
2299120	Antimony	102	101	P/P	80 - 120
2299120	Arsenic	100	99.5	P/P	80 - 120
2299120	Barium	106	104	P/P	80 - 120
2299120	Beryllium	99.5	99.7	P/P	80 - 120
2299120	Cadmium	101	99.6	P/P	80 - 120
2299120	Chromium	106	104	P/P	80 - 120
2299120	Cobalt	100	97.7	P/P	80 - 120
2299120	Copper	101	99.3	P/P	80 - 120
2299120	Lead	96.4	95.1	P/P	80 - 120
2299120	Molybdenum	103	101	P/P	80 - 120
2299120	Nickel	103	101	P/P	80 - 120
2299120	Selenium	100	99.8	P/P	80 - 120
2299120	Thallium	106	105	P/P	80 - 120
2299211	Aluminum	97.4		P	80 - 120
2299211	Antimony	104		P	80 - 120
2299211	Arsenic	105		P	80 - 120
2299211	Barium	105		P	80 - 120
2299211	Beryllium	103		P	80 - 120
2299211	Boron	90.6		P	80 - 120
2299211	Cadmium	102		P	80 - 120
2299211	Chromium	106		P	80 - 120
2299211	Cobalt	102		P	80 - 120
2299211	Copper	101		P	80 - 120
2299211	Lead	97.6		P	80 - 120
2299211	Manganese	104		P	80 - 120
2299211	Molybdenum	104		P	80 - 120
2299211	Nickel	104		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P408532

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2299211	Selenium	104		P	80 - 120
2299211	Thallium	109		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P408710

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2299623	Silver	100	100	P/P	80 - 120
2299727	Silver	100		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409115

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2299011	Chloride	99.8		P	90 - 110
2299037	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409118

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2299011	Sulfate	94.2		P	90 - 110
2299037	Sulfate	96.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P408830

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2299219	Ammonia-N	98.4	99.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408668

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2299243	Kjeldahl Nitrogen	92.6	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P408601

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2299040	NO2NO3-N	108	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P408643

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2299082	Total-P	110	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P408454

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P408454

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2299016	O-Phosphate-P	90.4	91.5	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P408428

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2298468	Acetochlor	96.4	88.6	P/P	65 - 124
2298468	Alachlor	101	82.5	P/P	61 - 121
2298468	Ametryn	107	98.4	P/P	46 - 169
2298468	Atrazine	81.3	79.0	P/P	68 - 133
2298468	Atrazine Desethyl	36.9	36.7	P/P	26 - 133
2298468	Azinphos Methyl	83.8	71.2	P/P	10 - 228
2298468	Azoxystrobin	98.6	94.8	P/P	12 - 242
2298468	Butylate	57.6	62.2	P/P	14 - 94.0
2298468	Caffeine	149	113	P/P	10 - 226
2298468	Carbophenothion	78.2	81.8	P/P	49 - 122
2298468	Carfentrazone Ethyl	87.1	84.4	P/P	53 - 138
2298468	Chlorfenapyr	68.3	75.0	P/P	50 - 150
2298468	Chlorpyrifos Ethyl	72.8	71.9	P/P	52 - 122
2298468	Chlorpyrifos Methyl	76.9	72.0	P/P	66 - 117
2298468	Coumaphos	133	137	P/P	50 - 220
2298468	Cyanazine	99.7	94.8	P/P	27 - 211
2298468	Cyprodinil	88.7	97.1	P/P	50 - 150
2298468	Demeton	64.7	62.2	P/P	46 - 132
2298468	Diazinon	97.2	98.5	P/P	69 - 131
2298468	Difenoconazole	67.9	66.6	P/P	34 - 231
2298468	Dimethenamid	75.9	72.5	P/P	55 - 118
2298468	Dimethomorph	86.0	80.2	P/P	50 - 150
2298468	Disulfoton	80.1	73.0	P/P	38 - 141
2298468	Dithiopyr	90.9	88.5	P/P	49 - 123
2298468	EPTC	47.7	58.6	P/P	18 - 85.0
2298468	Ethion	79.7	79.6	P/P	10 - 131
2298468	Ethoprop	77.1	69.0	P/P	65 - 129
2298468	Etridiazole	57.4	61.5	P/P	50 - 150
2298468	Fenamiphos	88.9	84.3	P/P	34 - 130
2298468	Fenbuconazole	127	119	P/P	57 - 160
2298468	Fipronil	93.9	91.6	P/P	62 - 132
2298468	Fipronil Desulfinyl	87.0	85.4	P/P	57 - 131
2298468	Fipronil Sulfide	74.8	74.1	P/P	48 - 122
2298468	Fipronil Sulfone	72.9	73.2	P/P	44 - 122
2298468	Fluazifop-P-butyl	89.8	92.6	P/P	54 - 133
2298468	Fludioxonil	78.7	75.3	P/P	58 - 127
2298468	Flumioxazin	202	201	P/P	33 - 300
2298468	Flutolanil	66.5	67.9	P/P	42 - 130
2298468	Fluxapyroxad	122	112	P/P	23 - 141
2298468	Fonofos	75.3	69.8	P/P	58 - 119
2298468	Hexazinone	85.7	81.2	P/P	66 - 129
2298468	Imazalil	73.9	80.8	P/P	10 - 211
2298468	Iprodione	43.5	39.5	P/P	38 - 140
2298468	Loratadine	76.3	65.7	P/P	50 - 150
2298468	Malathion	83.8	93.7	P/P	57 - 138
2298468	Metolachlor	81.9	85.7	P/P	55 - 122

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P408428

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2298468	Metribuzin	80.3	77.7	P/P	38 - 187
2298468	Mevinphos	57.4	43.9	P/F	54 - 134
2298468	Molinate	65.3	68.9	P/P	41 - 97.0
2298468	Myclobutanil	82.8	78.5	P/P	56 - 125
2298468	Naled	78.4	84.9	P/P	10 - 108
2298468	Napropamide	78.3	79.1	P/P	50 - 150
2298468	Oxadiazon	71.9	72.6	P/P	40 - 119
2298468	Oxyfluorfen	102	103	P/P	61 - 153
2298468	Parathion Ethyl	80.7	79.2	P/P	59 - 130
2298468	Parathion Methyl	103	90.5	P/P	65 - 155
2298468	Pendimethalin	67.0	63.3	P/P	49 - 138
2298468	Phenytoin	70.2	63.0	P/P	50 - 200
2298468	Phorate	57.2	57.3	P/P	42 - 140
2298468	Prodiamine	111	104	P/P	10 - 155
2298468	Prometon	116	110	P/P	56 - 129
2298468	Prometryn	93.2	88.4	P/P	55 - 134
2298468	Pronamide	96.3	86.2	P/P	66 - 137
2298468	Propanil	76.4	73.8	P/P	50 - 150
2298468	Propargite	116	116	P/P	50 - 200
2298468	Propiconazole	94.3	91.0	P/P	36 - 150
2298468	Pyraflufen Ethyl	99.4	99.0	P/P	50 - 150
2298468	Pyriproxyfen	39.8	37.7	P/P	10 - 165
2298468	Stiropfos	70.4	72.0	P/P	50 - 150
2298468	Sulfentrazone	91.3	80.6	P/P	34 - 140
2298468	Tebuconazole	102	97.3	P/P	10 - 112
2298468	Terbufos	91.5	90.5	P/P	59 - 138
2298468	Terbutylazine	81.9	84.1	P/P	68 - 119
2298468	Thiobencarb	80.9	80.4	P/P	50 - 150
2298468	Triadimefon	69.0	70.1	P/P	50 - 150

Reference Method: EPA 8270E
Batch ID: P408463

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2298524	Aldrin	60.8		P	10 - 93.0
2298524	Aldrin	56.9		P	10 - 89.0
2298524	Alpha-BHC	93.2		P	75 - 106
2298524	Alpha-BHC	101		P	71 - 105
2298524	Alpha-Chlordane	76.2		P	50 - 109
2298524	Alpha-Chlordane	69.5		P	43 - 107
2298524	Beta-BHC	106		P	65 - 135
2298524	Beta-BHC	79.9		P	57 - 152
2298524	Beta-Cyfluthrin	94.0		P	23 - 167
2298524	Beta-Cyfluthrin	71.4		P	29 - 186
2298524	Bifenthrin	75.1		P	11 - 123
2298524	Bifenthrin	70.5		P	19 - 119
2298524	Carbophenothion	64.0		P	18 - 96.0
2298524	Carbophenothion	62.8		P	19 - 107
2298524	Chlorothalonil	76.1		P	26 - 182
2298524	Chlorothalonil	76.6		P	10 - 245
2298524	Cis-Nonachlor	64.3		P	40 - 111
2298524	Cis-Nonachlor	55.9		P	36 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P408463

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2298524	Cypermethrin	99.4		P	25 - 155
2298524	Cypermethrin	80.0		P	24 - 169
2298524	Dacthal	87.2		P	73 - 112
2298524	Dacthal	78.9		P	62 - 115
2298524	DDD-p,p'	78.5		P	47 - 108
2298524	DDD-p,p'	67.7		P	36 - 109
2298524	DDE-p,p'	69.7		P	48 - 107
2298524	DDE-p,p'	69.1		P	30 - 114
2298524	DDT-p,p'	76.6		P	49 - 111
2298524	DDT-p,p'	71.9		P	42 - 108
2298524	Delta-BHC	105		P	68 - 143
2298524	Delta-BHC	92.2		P	60 - 164
2298524	Deltamethrin	114		P	16 - 176
2298524	Deltamethrin	86.4		P	10 - 210
2298524	Dichlobenil	77.2		P	32 - 113
2298524	Dichlobenil	51.5		P	23 - 108
2298524	Dicofol	81.5		P	50 - 108
2298524	Dicofol	74.8		P	44 - 109
2298524	Dieldrin	71.4		P	56 - 110
2298524	Dieldrin	63.3		P	37 - 119
2298524	Endosulfan I	74.3		P	60 - 105
2298524	Endosulfan I	69.2		P	52 - 105
2298524	Endosulfan II	72.2		P	50 - 120
2298524	Endosulfan II	56.2		P	35 - 127
2298524	Endosulfan Sulfate	80.2		P	55 - 121
2298524	Endosulfan Sulfate	54.7		P	39 - 130
2298524	Endrin	76.1		P	35 - 117
2298524	Endrin	66.9		P	30 - 116
2298524	Endrin Aldehyde	75.8		P	36 - 116
2298524	Endrin Aldehyde	55.2		P	20 - 110
2298524	Endrin Ketone	103		P	56 - 130
2298524	Endrin Ketone	76.7		P	48 - 134
2298524	Esfenvalerate	84.8		P	10 - 179
2298524	Esfenvalerate	66.0		P	10 - 199
2298524	Ethalfuralin	79.7		P	49 - 99.0
2298524	Ethalfuralin	75.3		P	48 - 95.0
2298524	Fenpropathrin	88.6		P	35 - 119
2298524	Fenpropathrin	76.3		P	37 - 121
2298524	Gamma-BHC	95.7		P	72 - 115
2298524	Gamma-BHC	92.1		P	61 - 126
2298524	Gamma-Chlordane	74.6		P	45 - 107
2298524	Gamma-Chlordane	67.5		P	39 - 105
2298524	Heptachlor	68.2		P	41 - 100
2298524	Heptachlor	63.3		P	38 - 96.0
2298524	Heptachlor Epoxide	82.3		P	58 - 106
2298524	Heptachlor Epoxide	70.4		P	42 - 114
2298524	Hexachlorobenzene	78.5		P	39 - 100
2298524	Hexachlorobenzene	73.7		P	39 - 93.0
2298524	Kepone	106		P	10 - 191
2298524	Kepone	75.1		P	10 - 215
2298524	Lambda-Cyhalothrin	98.5		P	10 - 186
2298524	Lambda-Cyhalothrin	90.8		P	10 - 204

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P408463

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2298524	Methoprene	65.6		P	10 - 129
2298524	Methoprene	67.2		P	17 - 108
2298524	Methoxychlor	104		P	61 - 111
2298524	Methoxychlor	93.3		P	56 - 115
2298524	MGK-264	82.8		P	20 - 123
2298524	MGK-264	76.2		P	35 - 120
2298524	Mirex	55.5		P	10 - 182
2298524	Mirex	53.9		P	10 - 178
2298524	Oxychlordane	79.7		P	39 - 110
2298524	Oxychlordane	75.3		P	47 - 91.0
2298524	Permethrin	97.2		P	26 - 152
2298524	Permethrin	87.8		P	27 - 170
2298524	Phenothrin	78.7		P	10 - 109
2298524	Phenothrin	77.0		P	10 - 133
2298524	Piperonyl Butoxide	101		P	27 - 142
2298524	Piperonyl Butoxide	91.8		P	23 - 150
2298524	Prallethrin	70.4		P	14 - 109
2298524	Prallethrin	63.7		P	21 - 113
2298524	Tau-Fluvalinate	84.8		P	16 - 134
2298524	Tau-Fluvalinate	62.0		P	16 - 158
2298524	Tetramethrin	103		P	10 - 125
2298524	Tetramethrin	91.3		P	22 - 132
2298524	Trans-Nonachlor	79.0		P	45 - 107
2298524	Trans-Nonachlor	64.8		P	43 - 102
2298524	Triclosan Methyl	73.2		P	60 - 110
2298524	Triclosan Methyl	71.3		P	49 - 109
2298524	Trifluralin	79.6		P	49 - 98.0
2298524	Trifluralin	75.3		P	48 - 93.0

Reference Method: EPA 8276

Batch ID: P408463

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2299619	Chlordane	77.8	68.4	P/P	55 - 128
2299619	Toxaphene	75.2	86.9	P/P	29 - 164

Reference Method: EPA 8321B

Batch ID: P408383

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2299106	Acesulfame K	114	118	P/P	40 - 150
2299106	AMPA	96.8	103	P/P	40 - 160
2299106	Endothall	105	109	P/P	40 - 150
2299106	Glufosinate	103	111	P/P	40 - 160
2299106	Glyphosate	93.6	96.1	P/P	40 - 160
2299106	Sucralose	120	114	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P408407

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2298463	3-Hydroxycarbofuran	85.4	90.9	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P408407

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2298463	Aldicarb	84.3	66.9	P/P	30 - 150
2298463	Aldicarb Sulfone	82.9	94.5	P/P	40 - 150
2298463	Aldicarb Sulfoxide	49.8	55.2	P/P	40 - 150
2298463	Carbaryl	70.4	66.4	P/P	40 - 150
2298463	Carbofuran	102	95.7	P/P	40 - 150
2298463	Methiocarb	81.1	101	P/P	40 - 150
2298463	Methomyl	84.1	85.6	P/P	40 - 150
2298463	Oxamyl	43.9	55.6	P/P	40 - 150
2298463	Propoxur	81.1	97.9	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P408408

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2298813	2,4-D	145	118	P/P	40 - 150
2298813	2,4,5-T	107	111	P/P	40 - 150
2298813	Acetaminophen	115	94.6	P/P	30 - 150
2298813	Acetamiprid	101	111	P/P	40 - 150
2298813	Afidopyropen	76.5	53.2	P/P	40 - 150
2298813	Bentazon	63.3	77.6	P/P	30 - 150
2298813	Benzovindiflupyr	83.9	79.5	P/P	40 - 150
2298813	Carbamazepine	91.4	103	P/P	40 - 150
2298813	Clothianidin	142	125	P/P	40 - 150
2298813	Dinotefuran	137	132	P/P	40 - 150
2298813	Diuron	90.9	86.9	P/P	40 - 150
2298813	Fenuron	106	97.6	P/P	40 - 150
2298813	Fluridone	92.6	98.3	P/P	40 - 150
2298813	Hydrocodone	88.8	107	P/P	40 - 150
2298813	Ibuprofen	89.7	71.8	P/P	40 - 150
2298813	Imazapyr	138	95.9	P/P	40 - 150
2298813	Imidacloprid	182	159	F/F	40 - 150
2298813	Linuron	115	73.2	P/P	40 - 150
2298813	Mandestrobin	102	89.1	P/P	40 - 150
2298813	MCCP	90.6	96.0	P/P	40 - 150
2298813	Naproxen	102	99.8	P/P	40 - 150
2298813	Primidone	78.0	68.6	P/P	40 - 150
2298813	Pyraclostrobin	105	87.8	P/P	40 - 150
2298813	Silvex	103	90.9	P/P	40 - 150
2298813	Thiamethoxam	161	132	F/P	40 - 150
2298813	Tolfenpyrad	45.6	59.7	P/P	30 - 150
2298813	Triclopyr	115	99.5	P/P	40 - 150

Reference Method: SM 4500 F-C-2011
Batch ID: P408542

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2298602	Fluoride	99.0	99.7	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P408584

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

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P408584

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2298654	Organic Carbon	101	103	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P408460

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2299014	Turbidity	1.12	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P408532

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2299120	Calcium	0.600	Spike	P	0 - 20
2299120	Iron	0.646	Spike	P	0 - 20
2299120	Magnesium	0.814	Spike	P	0 - 20
2299120	Potassium	1.08	Spike	P	0 - 20
2299120	Sodium	1.46	Spike	P	0 - 20
2299120	Strontium	0.546	Spike	P	0 - 20
2299120	Tin	1.71	Spike	P	0 - 20
2299120	Titanium	0.484	Spike	P	0 - 20
2299120	Vanadium	0.680	Spike	P	0 - 20
2299120	Zinc	0.772	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P408532

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2299120	Aluminum	0.464	Spike	P	0 - 20
2299120	Antimony	1.82	Spike	P	0 - 20
2299120	Arsenic	0.521	Spike	P	0 - 20
2299120	Barium	1.43	Spike	P	0 - 20
2299120	Beryllium	0.190	Spike	P	0 - 20
2299120	Boron	0.359	Spike	P	0 - 20
2299120	Cadmium	1.26	Spike	P	0 - 20
2299120	Chromium	1.94	Spike	P	0 - 20
2299120	Cobalt	2.34	Spike	P	0 - 20
2299120	Copper	1.89	Spike	P	0 - 20
2299120	Lead	1.36	Spike	P	0 - 20
2299120	Manganese	1.15	Spike	P	0 - 20
2299120	Molybdenum	1.60	Spike	P	0 - 20
2299120	Nickel	2.16	Spike	P	0 - 20
2299120	Selenium	0.552	Spike	P	0 - 20
2299120	Thallium	0.812	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P408710

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2299623	Silver	0.312	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409115

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2299011	Chloride	1.07	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409118

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2299011	Sulfate	0.906	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P408830

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2299219	Ammonia-N	0.444	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408668

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2299243	Kjeldahl Nitrogen	5.64	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P408601

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2299040	NO2NO3-N	0.464	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P408643

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2299082	Total-P	1.82	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P408454

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2299016	O-Phosphate-P	1.21	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P408428

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2298468	Acetochlor	8.41	Spike	P	0 - 24
2298468	Alachlor	20.2	Spike	P	0 - 24

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P408428

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2298468	Ametryn	8.87	Spike	P	0 - 27
2298468	Atrazine	2.16	Spike	P	0 - 29
2298468	Atrazine Desethyl	0.488	Spike	P	0 - 30
2298468	Azinphos Methyl	16.3	Spike	P	0 - 50
2298468	Azoxystrobin	3.91	Spike	P	0 - 32
2298468	Bromacil	3.07	Spike	P	0 - 30
2298468	Butylate	7.60	Spike	P	0 - 47
2298468	Caffeine	27.7	Spike	P	0 - 60
2298468	Carbophenothion	4.48	Spike	P	0 - 24
2298468	Carfentrazone Ethyl	3.18	Spike	P	0 - 26
2298468	Chlorfenapyr	9.34	Spike	P	0 - 30
2298468	Chlorpyrifos Ethyl	1.20	Spike	P	0 - 27
2298468	Chlorpyrifos Methyl	6.66	Spike	P	0 - 22
2298468	Coumaphos	2.81	Spike	P	0 - 30
2298468	Cyanazine	5.08	Spike	P	0 - 32
2298468	Cyprodinil	9.05	Spike	P	0 - 30
2298468	Demeton	3.86	Spike	P	0 - 25
2298468	Diazinon	1.36	Spike	P	0 - 24
2298468	Difenoconazole	1.88	Spike	P	0 - 25
2298468	Dimethenamid	4.49	Spike	P	0 - 30
2298468	Dimethomorph	7.04	Spike	P	0 - 30
2298468	Disulfoton	9.27	Spike	P	0 - 26
2298468	Dithiopyr	2.68	Spike	P	0 - 22
2298468	EPTC	20.4	Spike	P	0 - 38
2298468	Ethion	0.125	Spike	P	0 - 47
2298468	Ethoprop	11.2	Spike	P	0 - 23
2298468	Etridiazole	6.88	Spike	P	0 - 30
2298468	Fenamiphos	5.30	Spike	P	0 - 34
2298468	Fenbuconazole	5.87	Spike	P	0 - 37
2298468	Fipronil	2.55	Spike	P	0 - 23
2298468	Fipronil Desulfinyl	1.88	Spike	P	0 - 26
2298468	Fipronil Sulfide	0.873	Spike	P	0 - 23
2298468	Fipronil Sulfone	0.481	Spike	P	0 - 24
2298468	Fluazifop-P-butyl	3.15	Spike	P	0 - 24
2298468	Fludioxonil	4.44	Spike	P	0 - 26
2298468	Flumioxazin	0.692	Spike	P	0 - 37
2298468	Flutolanil	2.06	Spike	P	0 - 26
2298468	Fluxapyroxad	8.48	Spike	P	0 - 34
2298468	Fonofos	7.63	Spike	P	0 - 22
2298468	Hexazinone	5.43	Spike	P	0 - 21
2298468	Imazalil	8.89	Spike	P	0 - 65
2298468	Iprodione	9.64	Spike	P	0 - 33
2298468	Loratadine	15.0	Spike	P	0 - 30
2298468	Malathion	11.1	Spike	P	0 - 26
2298468	Metalaxyl	3.52	Spike	P	0 - 38
2298468	Metolachlor	4.64	Spike	P	0 - 36
2298468	Metribuzin	3.28	Spike	P	0 - 29
2298468	Mevinphos	26.7	Spike	F	0 - 26
2298468	Molinate	5.40	Spike	P	0 - 27
2298468	Myclobutanil	5.35	Spike	P	0 - 21
2298468	Naled	7.91	Spike	P	0 - 26

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P408428

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2298468	Napropamide	1.04	Spike	P	0 - 30
2298468	Norflurazon	17.6	Spike	P	0 - 24
2298468	Oxadiazon	0.862	Spike	P	0 - 23
2298468	Oxyfluorfen	0.447	Spike	P	0 - 24
2298468	Parathion Ethyl	1.86	Spike	P	0 - 23
2298468	Parathion Methyl	12.7	Spike	P	0 - 23
2298468	Pendimethalin	5.59	Spike	P	0 - 31
2298468	Phenytol	10.7	Spike	P	0 - 30
2298468	Phorate	0.161	Spike	P	0 - 27
2298468	Prodiamine	6.35	Spike	P	0 - 52
2298468	Prometon	5.52	Spike	P	0 - 31
2298468	Prometryn	5.39	Spike	P	0 - 24
2298468	Pronamide	11.0	Spike	P	0 - 26
2298468	Propanil	3.47	Spike	P	0 - 30
2298468	Propargite	0.118	Spike	P	0 - 30
2298468	Propiconazole	3.53	Spike	P	0 - 31
2298468	Pyraflufen Ethyl	0.406	Spike	P	0 - 30
2298468	Pyridaben	8.44	Spike	P	0 - 30
2298468	Pyriproxyfen	5.48	Spike	P	0 - 50
2298468	Simazine	3.98	Spike	P	0 - 25
2298468	Stirophos	2.28	Spike	P	0 - 30
2298468	Sulfentrazone	12.5	Spike	P	0 - 33
2298468	Tebuconazole	4.73	Spike	P	0 - 43
2298468	Terbufos	1.05	Spike	P	0 - 22
2298468	Terbuthylazine	2.61	Spike	P	0 - 24
2298468	Thiobencarb	0.681	Spike	P	0 - 30
2298468	Triadimefon	1.55	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P408463

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2298524	Aldrin	6.74	Spike	P	0 - 37
2298524	Alpha-BHC	7.74	Spike	P	0 - 16
2298524	Alpha-Chlordane	9.18	Spike	P	0 - 28
2298524	Beta-BHC	28.3	Spike	P	0 - 32
2298524	Beta-Cyfluthrin	27.3	Spike	P	0 - 41
2298524	Bifenthrin	6.26	Spike	P	0 - 36
2298524	Carbophenothion	1.89	Spike	P	0 - 81
2298524	Chlorothalonil	0.639	Spike	P	0 - 54
2298524	Cis-Nonachlor	14.1	Spike	P	0 - 33
2298524	Cypermethrin	21.7	Spike	P	0 - 38
2298524	Dacthal	9.92	Spike	P	0 - 23
2298524	DDD-p,p'	14.9	Spike	P	0 - 35
2298524	DDE-p,p'	0.842	Spike	P	0 - 27
2298524	DDT-p,p'	6.37	Spike	P	0 - 31
2298524	Delta-BHC	13.4	Spike	P	0 - 30
2298524	Deltamethrin	27.6	Spike	P	0 - 76
2298524	Dichlobenil	39.8	Spike	F	0 - 33
2298524	Dicofol	8.65	Spike	P	0 - 24

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P408463

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2298524	Dieldrin	11.3	Spike	P	0 - 35
2298524	Endosulfan I	7.08	Spike	P	0 - 25
2298524	Endosulfan II	24.9	Spike	P	0 - 31
2298524	Endosulfan Sulfate	37.8	Spike	P	0 - 38
2298524	Endrin	12.9	Spike	P	0 - 53
2298524	Endrin Aldehyde	31.5	Spike	P	0 - 81
2298524	Endrin Ketone	29.5	Spike	P	0 - 33
2298524	Esfenvalerate	24.9	Spike	P	0 - 46
2298524	Ethalfuralin	5.69	Spike	P	0 - 22
2298524	Fenpropathrin	14.9	Spike	P	0 - 29
2298524	Gamma-BHC	3.81	Spike	P	0 - 17
2298524	Gamma-Chlordane	9.98	Spike	P	0 - 28
2298524	Heptachlor	7.41	Spike	P	0 - 28
2298524	Heptachlor Epoxide	15.6	Spike	P	0 - 23
2298524	Hexachlorobenzene	6.28	Spike	P	0 - 22
2298524	Kepone	33.8	Spike	P	0 - 61
2298524	Lambda-Cyhalothrin	8.17	Spike	P	0 - 52
2298524	Methoprene	2.46	Spike	P	0 - 38
2298524	Methoxychlor	11.1	Spike	P	0 - 29
2298524	MGK-264	8.29	Spike	P	0 - 41
2298524	Mirex	2.77	Spike	P	0 - 39
2298524	Oxychlordane	5.71	Spike	P	0 - 33
2298524	Permethrin	10.1	Spike	P	0 - 39
2298524	Phenothrin	2.19	Spike	P	0 - 52
2298524	Piperonyl Butoxide	9.33	Spike	P	0 - 91
2298524	Prallethrin	9.99	Spike	P	0 - 34
2298524	Tau-Fluvalinate	31.1	Spike	P	0 - 41
2298524	Tetramethrin	12.0	Spike	P	0 - 43
2298524	Trans-Nonachlor	19.8	Spike	P	0 - 31
2298524	Triclosan Methyl	2.68	Spike	P	0 - 24
2298524	Trifluralin	5.55	Spike	P	0 - 23

Reference Method: EPA 8276

Batch ID: P408463

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2299619	Chlordane	11.0	Spike	P	0 - 30
2299619	Toxaphene	14.5	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P408383

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2299106	Acesulfame K	2.86	Spike	P	0 - 30
2299106	AMPA	5.76	Spike	P	0 - 30
2299106	Endothall	3.52	Spike	P	0 - 30
2299106	Glufosinate	7.30	Spike	P	0 - 30
2299106	Glyphosate	2.60	Spike	P	0 - 30
2299106	Sucralose	4.28	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P408407

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2298463	3-Hydroxycarbofuran	6.17	Spike	P	0 - 30
2298463	Aldicarb	22.9	Spike	P	0 - 30
2298463	Aldicarb Sulfone	12.1	Spike	P	0 - 30
2298463	Aldicarb Sulfoxide	10.3	Spike	P	0 - 30
2298463	Carbaryl	5.84	Spike	P	0 - 30
2298463	Carbofuran	6.11	Spike	P	0 - 30
2298463	Methiocarb	21.5	Spike	P	0 - 30
2298463	Methomyl	1.73	Spike	P	0 - 30
2298463	Oxamyl	12.6	Spike	P	0 - 30
2298463	Propoxur	18.8	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P408408

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2298813	2,4-D	18.4	Spike	P	0 - 30
2298813	2,4,5-T	3.16	Spike	P	0 - 30
2298813	Acetaminophen	19.3	Spike	P	0 - 30
2298813	Acetamiprid	9.63	Spike	P	0 - 30
2298813	Afidopyropen	35.8	Spike	F	0 - 30
2298813	Bentazon	12.0	Spike	P	0 - 30
2298813	Benzovindiflupyr	5.46	Spike	P	0 - 30
2298813	Carbamazepine	11.5	Spike	P	0 - 30
2298813	Clothianidin	13.3	Spike	P	0 - 30
2298813	Dinotefuran	2.77	Spike	P	0 - 30
2298813	Diuron	3.81	Spike	P	0 - 30
2298813	Fenuron	7.90	Spike	P	0 - 30
2298813	Fluridone	6.00	Spike	P	0 - 30
2298813	Hydrocodone	18.3	Spike	P	0 - 30
2298813	Ibuprofen	22.2	Spike	P	0 - 30
2298813	Imazapyr	24.4	Spike	P	0 - 30
2298813	Imidacloprid	12.3	Spike	P	0 - 30
2298813	Linuron	44.7	Spike	F	0 - 30
2298813	Mandestrobin	13.9	Spike	P	0 - 30
2298813	MCPP	5.81	Spike	P	0 - 30
2298813	Naproxen	2.54	Spike	P	0 - 30
2298813	Primidone	12.9	Spike	P	0 - 30
2298813	Pyraclostrobin	17.9	Spike	P	0 - 30
2298813	Silvex	12.1	Spike	P	0 - 30
2298813	Thiamethoxam	18.2	Spike	P	0 - 30
2298813	Tolfenpyrad	26.9	Spike	P	0 - 30
2298813	Triclopyr	14.0	Spike	P	0 - 30

Reference Method: SM 2120 B-2011

Batch ID: P408448

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2299022	Color (true)	1.94	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P408539

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2298602	Total Alkalinity	1.59	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P408873

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2299081	TDS	5.45	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P408542

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2298602	Fluoride	0.531	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P408584

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2298654	Organic Carbon	1.17	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2299106

Field Sample ID: G4NW0244

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	108	P	30 - 160
EPA 8321B	Acetaminophen-d4	104	P	30 - 160
EPA 8321B	Carbamazepine-d10	137	P	30 - 160
EPA 8321B	Diuron-d6	97.5	P	30 - 160
EPA 8321B	Endothall-d6	115	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	105	P	30 - 160
EPA 8321B	Ibuprofen-d3	63.5	P	30 - 160
EPA 8321B	Primidone-d5	84.5	P	30 - 160
EPA 8321B	Sucralose-d6	112	P	30 - 160

Lab Sample ID: 2299107

Field Sample ID: G4NW0415

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	127	P	30 - 160
EPA 8321B	Acetaminophen-d4	85.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	120	P	30 - 160
EPA 8321B	Diuron-d6	59.7	P	30 - 160
EPA 8321B	Endothall-d6	131	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	107	P	30 - 160
EPA 8321B	Ibuprofen-d3	81.6	P	30 - 160
EPA 8321B	Primidone-d5	75.2	P	30 - 160
EPA 8321B	Sucralose-d6	126	P	30 - 160

Lab Sample ID: 2299108

Field Sample ID: G4NW0429

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	125	P	30 - 160
EPA 8321B	Acetaminophen-d4	126	P	30 - 160
EPA 8321B	Carbamazepine-d10	137	P	30 - 160
EPA 8321B	Diuron-d6	65.6	P	30 - 160
EPA 8321B	Endothall-d6	163	F	30 - 160
EPA 8321B	Glyphosate 13C 15N	99.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	82.3	P	30 - 160
EPA 8321B	Primidone-d5	78.8	P	30 - 160
EPA 8321B	Sucralose-d6	131	P	30 - 160

Lab Sample ID: 2299109

Field Sample ID: G4NW0130

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	123	P	30 - 160
EPA 8321B	Acetaminophen-d4	123	P	30 - 160
EPA 8321B	Carbamazepine-d10	127	P	30 - 160
EPA 8321B	Diuron-d6	55.7	P	30 - 160
EPA 8321B	Endothall-d6	145	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	96.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	60.3	P	30 - 160
EPA 8321B	Primidone-d5	109	P	30 - 160
EPA 8321B	Sucralose-d6	129	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2299110

Field Sample ID: G5NW0051

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	132	P	30 - 160
EPA 8321B	Acetaminophen-d4	117	P	30 - 160
EPA 8321B	Carbamazepine-d10	136	P	30 - 160
EPA 8321B	Diuron-d6	79.6	P	30 - 160
EPA 8321B	Endothall-d6	153	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	85.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	128	P	30 - 160
EPA 8321B	Primidone-d5	83.0	P	30 - 160
EPA 8321B	Sucralose-d6	128	P	30 - 160

Lab Sample ID: 2299111

Field Sample ID: G5NW0045

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	129	P	30 - 160
EPA 8321B	Acetaminophen-d4	110	P	30 - 160
EPA 8321B	Carbamazepine-d10	138	P	30 - 160
EPA 8321B	Diuron-d6	86.0	P	30 - 160
EPA 8321B	Endothall-d6	147	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	101	P	30 - 160
EPA 8321B	Ibuprofen-d3	55.6	P	30 - 160
EPA 8321B	Primidone-d5	68.2	P	30 - 160
EPA 8321B	Sucralose-d6	128	P	30 - 160

Lab Sample ID: 2299112

Field Sample ID: G4NW0240

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	120	P	30 - 160
EPA 8321B	Acetaminophen-d4	103	P	30 - 160
EPA 8321B	Carbamazepine-d10	125	P	30 - 160
EPA 8321B	Diuron-d6	90.8	P	30 - 160
EPA 8321B	Endothall-d6	136	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	103	P	30 - 160
EPA 8321B	Ibuprofen-d3	90.4	P	30 - 160
EPA 8321B	Primidone-d5	114	P	30 - 160
EPA 8321B	Sucralose-d6	126	P	30 - 160

Lab Sample ID: 2299113

Field Sample ID: G4NW0424

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	133	P	30 - 160
EPA 8321B	Acetaminophen-d4	112	P	30 - 160
EPA 8321B	Carbamazepine-d10	135	P	30 - 160
EPA 8321B	Diuron-d6	114	P	30 - 160
EPA 8321B	Endothall-d6	135	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	105	P	30 - 160
EPA 8321B	Ibuprofen-d3	75.3	P	30 - 160
EPA 8321B	Primidone-d5	96.0	P	30 - 160
EPA 8321B	Sucralose-d6	126	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2299114
Field Sample ID: G5NW0155

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	86.0	P	30 - 160

Lab Sample ID: 2299115
Field Sample ID: G5NW0155

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	143	P	30 - 160
EPA 8321B	Acetaminophen-d4	109	P	30 - 160
EPA 8321B	Carbamazepine-d10	138	P	30 - 160
EPA 8321B	Diuron-d6	100	P	30 - 160
EPA 8321B	Endothall-d6	114	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	106	P	30 - 160
EPA 8321B	Ibuprofen-d3	122	P	30 - 160
EPA 8321B	Primidone-d5	80.9	P	30 - 160
EPA 8321B	Sucralose-d6	134	P	30 - 160

Lab Sample ID: 2299116
Field Sample ID: G4NW0244

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	46.1	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	59.2	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	52.0	P	30 - 97.0
EPA 8276	PCNB	68.3	P	45 - 119

Lab Sample ID: 2299117
Field Sample ID: G4NW0415

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	42.8	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	48.6	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	48.3	P	30 - 97.0
EPA 8276	PCNB	59.3	P	45 - 119

Lab Sample ID: 2299118
Field Sample ID: G5NW0155

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	42.1	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	51.6	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	46.4	P	30 - 97.0
EPA 8276	PCNB	57.8	P	45 - 119

Lab Sample ID: 2299119
Field Sample ID: G5NW0155

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	85.8	P	20 - 200
EPA 8270E	Simazine-d10	133	P	71 - 140
EPA 8270E	Terbufos-d10	116	P	62 - 131

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B-2011

Run ID: A109826

Included Lab Sample IDs: 2299081

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	102	P/P	85 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A109828

Included Lab Sample IDs: 2299083

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.4	98.8	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A109829

Included Lab Sample IDs: 2299081

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	99.0	P/P	95 - 105

Reference Method: EPA 8321B

Run ID: A109837

Included Lab Sample IDs: 2299106, 2299107, 2299108, 2299109, 2299110, 2299111, 2299112, 2299113, 2299115

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	102	96.4	P/P	60 - 160
AMPA	95.3	98.3	P/P	60 - 160
AMPA	96.4	95.3	P/P	60 - 160
Glufosinate	107	110	P/P	60 - 160
Glufosinate	110	97.2	P/P	60 - 160
Glufosinate	97.2	108	P/P	60 - 160
Glyphosate	103	107	P/P	60 - 160
Glyphosate	105	103	P/P	60 - 160
Glyphosate	99.7	105	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A109872

Included Lab Sample IDs: 2299106, 2299107, 2299108, 2299109, 2299110, 2299111, 2299112, 2299113, 2299115

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	100	108	P/P	60 - 160
Acesulfame K	101	100	P/P	60 - 160
Acesulfame K	108	113	P/P	60 - 160
Endothall	116	112	P/P	60 - 160
Endothall	85.3	116	P/P	60 - 160
Endothall	94.3	85.3	P/P	60 - 160
Sucralose	109	111	P/P	60 - 160
Sucralose	111	112	P/P	60 - 160
Sucralose	112	116	P/P	60 - 160

Reference Method: SM 2320 B-2011

Run ID: A109873

Included Lab Sample IDs: 2299081

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

Reference Method: SM 2320 B-2011

Run ID: A109873

Included Lab Sample IDs: 2299081

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	98.1	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A109873

Included Lab Sample IDs: 2299081

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	103	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A109898

Included Lab Sample IDs: 2299120, 2299121, 2299122

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	100	101	P/P	90 - 110
Aluminum	101	99.9	P/P	90 - 110
Antimony	100	102	P/P	90 - 110
Antimony	102	101	P/P	90 - 110
Arsenic	101	99.8	P/P	90 - 110
Arsenic	101	101	P/P	90 - 110
Barium	102	102	P/P	90 - 110
Barium	102	102	P/P	90 - 110
Beryllium	99.2	99.8	P/P	90 - 110
Beryllium	99.8	100	P/P	90 - 110
Boron	96.8	97.3	P/P	90 - 110
Boron	97.3	96.6	P/P	90 - 110
Cadmium	100	100	P/P	90 - 110
Cadmium	99.7	100	P/P	90 - 110
Chromium	101	101	P/P	90 - 110
Chromium	101	101	P/P	90 - 110
Cobalt	97.6	96.6	P/P	90 - 110
Cobalt	98.7	97.6	P/P	90 - 110
Copper	100	99.3	P/P	90 - 110
Copper	102	100	P/P	90 - 110
Lead	93.7	93.8	P/P	90 - 110
Lead	93.8	92.6	P/P	90 - 110
Manganese	101	103	P/P	90 - 110
Manganese	103	102	P/P	90 - 110
Molybdenum	99.0	99.1	P/P	90 - 110
Molybdenum	99.1	99.1	P/P	90 - 110
Nickel	102	100	P/P	90 - 110
Nickel	100	99.4	P/P	90 - 110
Selenium	102	101	P/P	90 - 110
Selenium	102	102	P/P	90 - 110
Thallium	103	104	P/P	90 - 110
Thallium	104	102	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A109902

Included Lab Sample IDs: 2299082

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.8	95.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A109906

Included Lab Sample IDs: 2299082

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	106	108	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A109916

Included Lab Sample IDs: 2299120, 2299121, 2299122

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	103	103	P/P	90 - 110
Iron	105	105	P/P	90 - 110
Magnesium	102	103	P/P	90 - 110
Potassium	100	100	P/P	90 - 110
Sodium	102	102	P/P	90 - 110
Strontium	101	99.9	P/P	90 - 110
Tin	102	102	P/P	90 - 110
Titanium	101	99.4	P/P	90 - 110
Vanadium	99.8	99.1	P/P	90 - 110
Zinc	100	101	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A109917

Included Lab Sample IDs: 2299116, 2299117, 2299118

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	92.7		P	80 - 120
Alpha-BHC	102		P	80 - 120
Alpha-Chlordane	106		P	80 - 120
Beta-BHC	100		P	80 - 120
Beta-Cyfluthrin	89.8		P	80 - 120
Bifenthrin	98.3		P	80 - 120
Carbophenothion	97.9		P	80 - 120
Chlorothalonil	93.2		P	80 - 120
Cis-Nonachlor	102		P	80 - 120
Cypermethrin	104		P	80 - 120
Dacthal	99.2		P	80 - 120
DDD-p,p'	98.4		P	80 - 120
DDE-p,p'	99.5		P	80 - 120
DDT-p,p'	99.8		P	80 - 120
Delta-BHC	98.4		P	80 - 120
Deltamethrin	90.5		P	80 - 120
Dichlobenil	95.8		P	80 - 120
Dicofol	98.6		P	80 - 120
Dieldrin	98.1		P	80 - 120
Endosulfan I	98.7		P	80 - 120
Endosulfan II	97.0		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A109917

Included Lab Sample IDs: 2299116, 2299117, 2299118

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endosulfan Sulfate	93.3		P	80 - 120
Endrin	101		P	80 - 120
Endrin Aldehyde	103		P	80 - 120
Endrin Ketone	112		P	80 - 120
Esfenvalerate	92.1		P	80 - 120
Ethalfuralin	99.2		P	80 - 120
Fenpropathrin	92.8		P	80 - 120
Gamma-BHC	99.2		P	80 - 120
Gamma-Chlordane	97.8		P	80 - 120
Heptachlor	99.3		P	80 - 120
Heptachlor Epoxide	100		P	80 - 120
Hexachlorobenzene	102		P	80 - 120
Kepone	57.1*		F	80 - 120
Lambda-Cyhalothrin	88.5		P	80 - 120
Methoprene	95.4		P	80 - 120
Methoxychlor	100		P	80 - 120
MGK-264	87.6		P	80 - 120
Mirex	96.2		P	80 - 120
Oxychlordane	97.8		P	80 - 120
Permethrin	98.8		P	80 - 120
Phenothrin	99.1		P	80 - 120
Piperonyl Butoxide	72.5*		F	80 - 120
Prallethrin	84.1		P	80 - 120
Tau-Fluvalinate	94.2		P	80 - 120
Tetramethrin	79.6*		F	80 - 120
Trans-Nonachlor	103		P	80 - 120
Triclosan Methyl	100		P	80 - 120
Trifluralin	98.1		P	80 - 120

Reference Method: EPA 8321B

Run ID: A109920

Included Lab Sample IDs: 2299114

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	109	110	P/P	60 - 150
Aldicarb	92.1	68.2	P/P	60 - 150
Aldicarb Sulfone	98.3	99.8	P/P	50 - 150
Aldicarb Sulfoxide	104	90.8	P/P	50 - 150
Carbaryl	79.2	106	P/P	60 - 150
Carbofuran	113	123	P/P	50 - 150
Methiocarb	112	110	P/P	50 - 150
Methomyl	106	103	P/P	50 - 150
Oxamyl	86.6	93.1	P/P	50 - 150
Propoxur	99.1	103	P/P	50 - 150

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A109953

Included Lab Sample IDs: 2299120, 2299121, 2299122

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Silver	99.3	99.7	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A109953

Included Lab Sample IDs: 2299120, 2299121, 2299122

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Silver	99.7	98.9	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A109954

Included Lab Sample IDs: 2299116, 2299117, 2299118

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	97.6		P	80 - 120
Toxaphene	104		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A109957

Included Lab Sample IDs: 2299082

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

Reference Method: EPA 8321B

Run ID: A109964

Included Lab Sample IDs: 2299106, 2299107, 2299108, 2299109, 2299110, 2299111, 2299112, 2299113, 2299115

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	88.5	93.6	P/P	50 - 150
2,4-D	92.4	88.5	P/P	50 - 150
2,4,5-T	100	108	P/P	50 - 150
2,4,5-T	108	100	P/P	50 - 150
Acetaminophen	103	107	P/P	60 - 160
Acetaminophen	98.7	103	P/P	60 - 160
Acetamiprid	109	109	P/P	50 - 150
Acetamiprid	109	106	P/P	50 - 150
Afidopyropen	108	120	P/P	50 - 150
Afidopyropen	120	88.5	P/P	50 - 150
Bentazon	102	113	P/P	50 - 160
Bentazon	92.4	102	P/P	50 - 160
Benzovindiflupyr	83.9	84.1	P/P	50 - 150
Benzovindiflupyr	84.1	115	P/P	50 - 150
Carbamazepine	109	103	P/P	60 - 150
Carbamazepine	112	109	P/P	60 - 150
Clothianidin	101	112	P/P	60 - 150
Clothianidin	112	135	P/P	60 - 150
Dinotefuran	106	102	P/P	50 - 150
Dinotefuran	110	106	P/P	50 - 150
Diuron	104	135	P/P	60 - 160
Diuron	67.5	104	P/P	60 - 160
Fenuron	103	115	P/P	60 - 150
Fenuron	115	112	P/P	60 - 150
Fluridone	105	103	P/P	60 - 160
Fluridone	115	105	P/P	60 - 160
Hydrocodone	101	106	P/P	60 - 150
Hydrocodone	106	98.7	P/P	60 - 150
Ibuprofen	124	124	P/P	50 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A109964

Included Lab Sample IDs: 2299106, 2299107, 2299108, 2299109, 2299110, 2299111, 2299112, 2299113, 2299115

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ibuprofen	124	79.8	P/P	50 - 160
Imazapyr	103	88.5	P/P	50 - 150
Imazapyr	88.5	91.4	P/P	50 - 150
Imidacloprid	101	96.3	P/P	60 - 150
Imidacloprid	96.3	97.1	P/P	60 - 150
Linuron	102	146	P/P	60 - 150
Linuron	97.0	102	P/P	60 - 150
Mandestrobin	113	99.9	P/P	50 - 150
Mandestrobin	116	113	P/P	50 - 150
MCPP	89.6	89.9	P/P	50 - 150
MCPP	93.0	89.6	P/P	50 - 150
Naproxen	106	65.2	P/P	50 - 160
Naproxen	86.5	106	P/P	50 - 160
Primidone	105	66.3	P/P	60 - 150
Primidone	95.1	105	P/P	60 - 150
Pyraclostrobin	111	119	P/P	60 - 150
Pyraclostrobin	119	101	P/P	60 - 150
Silvex	110	88.9	P/P	50 - 150
Silvex	88.9	95.8	P/P	50 - 150
Thiamethoxam	101	97.5	P/P	50 - 150
Thiamethoxam	97.5	81.8	P/P	50 - 150
Tolfenpyrad	111	132	P/P	60 - 150
Tolfenpyrad	135	111	P/P	60 - 150
Triclopyr	101	126	P/P	50 - 150
Triclopyr	103	101	P/P	50 - 150

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A109992

Included Lab Sample IDs: 2299082

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	102	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A110005

Included Lab Sample IDs: 2299119

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	105		P	80 - 120
Alachlor	102		P	80 - 120
Ametryn	117		P	80 - 120
Atrazine	99.2		P	80 - 120
Atrazine Desethyl	106		P	80 - 120
Azinphos Methyl	109		P	80 - 120
Azoxystrobin	102		P	80 - 120
Bromacil	108		P	80 - 120
Butylate	105		P	80 - 120
Caffeine	103		P	80 - 120
Carbophenothion	81.6		P	80 - 120
Carfentrazone Ethyl	95.0		P	80 - 120
Chlorfenapyr	88.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A110005
Included Lab Sample IDs: 2299119

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlorpyrifos Ethyl	87.1		P	80 - 120
Chlorpyrifos Methyl	86.5		P	80 - 120
Coumaphos	85.7		P	80 - 120
Cyanazine	113		P	80 - 120
Cyprodinil	110		P	80 - 120
Demeton	86.9		P	80 - 120
Diazinon	112		P	80 - 120
Difenoconazole	105		P	80 - 120
Dimethenamid	106		P	80 - 120
Dimethomorph	103		P	80 - 120
Disulfoton	88.8		P	80 - 120
Dithiopyr	105		P	80 - 120
EPTC	100		P	80 - 120
Ethion	89.3		P	80 - 120
Ethoprop	104		P	80 - 120
Etridiazole	106		P	80 - 120
Fenamiphos	87.1		P	80 - 120
Fenbuconazole	99.1		P	80 - 120
Fipronil	103		P	80 - 120
Fipronil Desulfinyl	101		P	80 - 120
Fipronil Sulfide	86.8		P	80 - 120
Fipronil Sulfone	82.2		P	80 - 120
Fluazifop-P-butyl	105		P	80 - 120
Fludioxonil	107		P	80 - 120
Flumioxazin	97.4		P	80 - 120
Flutolanil	86.6		P	80 - 120
Fluxapyroxad	101		P	80 - 120
Fonofos	102		P	80 - 120
Hexazinone	104		P	80 - 120
Imazalil	100		P	80 - 120
Iprodione	102		P	80 - 120
Loratadine	109		P	80 - 120
Metaxyl	103		P	80 - 120
Metolachlor	104		P	80 - 120
Metribuzin	107		P	80 - 120
Mevinphos	95.7		P	80 - 120
Molinate	101		P	80 - 120
Myclobutanil	107		P	80 - 120
Naled	90.4		P	80 - 120
Napropamide	103		P	80 - 120
Norflurazon	97.8		P	80 - 120
Oxadiazon	107		P	80 - 120
Oxyfluorfen	105		P	80 - 120
Parathion Ethyl	104		P	80 - 120
Parathion Methyl	102		P	80 - 120
Pendimethalin	107		P	80 - 120
Phenytol	107		P	80 - 120
Phorate	91.3		P	80 - 120
Prodiamine	103		P	80 - 120
Prometon	113		P	80 - 120
Prometryn	109		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A110005
 Included Lab Sample IDs: 2299119

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pronamide	104		P	80 - 120
Propanil	92.1		P	80 - 120
Propargite	102		P	80 - 120
Propiconazole	101		P	80 - 120
Pyraflufen Ethyl	97.9		P	80 - 120
Pyridaben	103		P	80 - 120
Pyriproxyfen	110		P	80 - 120
Simazine	96.8		P	80 - 120
Stirophos	80.0		P	80 - 120
Sulfentrazone	101		P	80 - 120
Tebuconazole	103		P	80 - 120
Terbufos	94.8		P	80 - 120
Terbuthylazine	101		P	80 - 120
Thiobencarb	106		P	80 - 120
Triadimefon	112		P	80 - 120

Reference Method: EPA 8270E
 Run ID: A110037
 Included Lab Sample IDs: 2299119

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Malathion	95.6		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
 Run ID: A110040
 Included Lab Sample IDs: 2299081

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	102	103	P/P	90 - 110
Sulfate	98.7	99.7	P/P	90 - 110

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery			MS % Recovery			LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity								1.12	
EPA 200.7 Rev. 4.4	Calcium	107			105					0.600
	Iron	111			109	109	111			0.646
	Magnesium	105			103	104				0.814
	Potassium	103			102	107				1.08
	Sodium	104			105	100				1.46
	Strontium	103			102	101	102			0.546
	Tin	109			110	108	103			1.71
	Titanium	106			106	105	105			0.484
	Vanadium	104			105	104	106			0.680
	Zinc	105			103	102	103			0.772
EPA 200.8 Rev. 5.4	Aluminum	103			99.7	99.3	97.4			0.464
	Antimony	101			102	101	104			1.82
	Arsenic	98.6			100	99.5	105			0.521
	Barium	106			106	104	105			1.43
	Beryllium	102			99.5	99.7	103			0.190
	Boron	97.1			90.6					0.359
	Cadmium	99.3			101	99.6	102			1.26
	Chromium	103			106	104	106			1.94
	Cobalt	99.2			100	97.7	102			2.34
	Copper	100			101	99.3	101			1.89
	Lead	95.9			96.4	95.1	97.6			1.36
	Manganese	103			104					1.15
	Molybdenum	99.7			103	101	104			1.60
	Nickel	101			103	101	104			2.16
	Selenium	98.8			100	99.8	104			0.552
	Silver	102			100	100	100			0.312
	Thallium	105			106	105	109			0.812
EPA 300.0 Rev. 2.1	Chloride	100			99.8	102			1.07	
	Sulfate	96.6			94.2	96.3			0.906	
EPA 350.1 Rev. 2.0	Ammonia-N	98.6			98.4	99.2				0.444
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104			92.6	103				5.64
EPA 353.2 Rev. 2.0	NO2NO3-N	106			108	108				0.464
EPA 365.1 Rev. 2.0	Total-P	108			110	108				1.82
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.8			90.4	91.5				1.21
EPA 8270E	Acetochlor	96.2			96.4	88.6				8.41
	Alachlor	85.4			101	82.5				20.2
	Aldrin	58.8			60.8	56.9				6.74
	Alpha-BHC	94.8			93.2	101				7.74
	Alpha-Chlordane	84.4			76.2	69.5				9.18
	Ametryn	102			107	98.4				8.87
	Atrazine	87.9			81.3	79.0				2.16
	Atrazine Desethyl	45.1			36.9	36.7				0.488
	Azinphos Methyl	87.6			83.8	71.2				16.3
	Azoxystrobin	98.7			98.6	94.8				3.91
	Beta-BHC	109			106	79.9				28.3
	Beta-Cyfluthrin	74.1			94.0	71.4				27.3
	Bifenthrin	57.6			75.1	70.5				6.26
	Bromacil	70.8								3.07
	Butylate	60.1			57.6	62.2				7.60
	Caffeine	103			149	113				27.7
	Carbophenothion	100			78.2	81.8				4.48
	Carbophenothion	49.4			64.0	62.8				1.89
	Carfentrazone Ethyl	95.0			87.1	84.4				3.18

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Chlorfenapyr	82.6	68.3	75.0		9.34
	Chlorothalonil	84.8	76.1	76.6		0.639
	Chlorpyrifos Ethyl	95.5	72.8	71.9		1.20
	Chlorpyrifos Methyl	91.2	76.9	72.0		6.66
	Cis-Nonachlor	76.9	64.3	55.9		14.1
	Coumaphos	155	133	137		2.81
	Cyanazine	97.9	99.7	94.8		5.08
	Cypermethrin	83.3	99.4	80.0		21.7
	Cyprodinil	103	88.7	97.1		9.05
	Dacthal	98.1	87.2	78.9		9.92
	DDD-p,p'	85.2	78.5	67.7		14.9
	DDE-p,p'	77.6	69.7	69.1		0.842
	DDT-p,p'	75.5	76.6	71.9		6.37
	Delta-BHC	112	105	92.2		13.4
	Deltamethrin	84.1	114	86.4		27.6
	Demeton	69.0	64.7	62.2		3.86
	Diazinon	98.5	97.2	98.5		1.36
	Dichlobenil	96.5	77.2	51.5		39.8
	Dicofol	77.3	81.5	74.8		8.65
	Dieldrin	84.1	71.4	63.3		11.3
	Difenoconazole	78.1	67.9	66.6		1.88
	Dimethenamid	76.8	75.9	72.5		4.49
	Dimethomorph	101	86.0	80.2		7.04
	Disulfoton	86.1	80.1	73.0		9.27
	Dithiopyr	89.9	90.9	88.5		2.68
	Endosulfan I	84.3	74.3	69.2		7.08
	Endosulfan II	89.0	72.2	56.2		24.9
	Endosulfan Sulfate	95.0	80.2	54.7		37.8
	Endrin	84.3	76.1	66.9		12.9
	Endrin Aldehyde	84.9	75.8	55.2		31.5
	Endrin Ketone	123	103	76.7		29.5
	EPTC	55.0	47.7	58.6		20.4
	Esfenvalerate	66.6	84.8	66.0		24.9
	Ethalfuralin	78.3	79.7	75.3		5.69
	Ethion	90.9	79.7	79.6		0.125
	Ethoprop	72.2	77.1	69.0		11.2
	Etridiazole	57.9	57.4	61.5		6.88
	Fenamiphos	96.3	88.9	84.3		5.30
	Fenbuconazole	135	127	119		5.87
	Fenpropathrin	76.0	88.6	76.3		14.9
	Fipronil	92.9	93.9	91.6		2.55
	Fipronil Desulfinyl	90.5	87.0	85.4		1.88
	Fipronil Sulfide	85.2	74.8	74.1		0.873
	Fipronil Sulfone	81.1	72.9	73.2		0.481
	Fluazifop-P-butyl	90.6	89.8	92.6		3.15
	Fludioxonil	85.4	78.7	75.3		4.44
	Flumioxazin	217	202	201		0.692
	Flutolanil	72.5	66.5	67.9		2.06
	Fluxapyroxad	125	122	112		8.48
	Fonofos	85.3	75.3	69.8		7.63
	Gamma-BHC	101	95.7	92.1		3.81
	Gamma-Chlordane	79.1	74.6	67.5		9.98
	Heptachlor	72.6	68.2	63.3		7.41
	Heptachlor Epoxide	90.8	82.3	70.4		15.6

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Hexachlorobenzene	78.2	78.5	73.7		6.28
	Hexazinone	90.6	85.7	81.2		5.43
	Imazalil	90.9	73.9	80.8		8.89
	Iprodione	53.7	43.5	39.5		9.64
	Kepone	134	106	75.1		33.8
	Lambda-Cyhalothrin	68.6	98.5	90.8		8.17
	Loratadine	83.0	76.3	65.7		15.0
	Malathion	93.6	83.8	93.7		11.1
	Metalaxyl	81.7				3.52
	Methoprene	47.0	65.6	67.2		2.46
	Methoxychlor	94.9	104	93.3		11.1
	Metolachlor	91.4	81.9	85.7		4.64
	Metribuzin	87.3	80.3	77.7		3.28
	Mevinphos	47.6	57.4	43.9		26.7
	MGK-264	85.8	82.8	76.2		8.29
	Mirex	53.1	55.5	53.9		2.77
	Molinate	69.3	65.3	68.9		5.40
	Myclobutanil	84.3	82.8	78.5		5.35
	Naled	87.5	78.4	84.9		7.91
	Napropamide	86.6	78.3	79.1		1.04
	Norflurazon	91.7				17.6
	Oxadiazon	76.2	71.9	72.6		0.862
	Oxychlordane	78.1	79.7	75.3		5.71
	Oxyfluorfen	95.8	102	103		0.447
	Parathion Ethyl	88.2	80.7	79.2		1.86
	Parathion Methyl	105	103	90.5		12.7
	Pendimethalin	73.5	67.0	63.3		5.59
	Permethrin	75.2	97.2	87.8		10.1
	Phenothrin	47.3	78.7	77.0		2.19
	Phenytoin	65.7	70.2	63.0		10.7
	Phorate	52.7	57.2	57.3		0.161
	Piperonyl Butoxide	96.1	101	91.8		9.33
	Prallethrin	67.7	70.4	63.7		9.99
	Prodiamine	89.9	111	104		6.35
	Prometon	113	116	110		5.52
	Prometryn	92.0	93.2	88.4		5.39
	Pronamide	89.7	96.3	86.2		11.0
	Propanil	72.4	76.4	73.8		3.47
	Propargite	116	116	116		0.118
	Propiconazole	99.0	94.3	91.0		3.53
	Pyraflufen Ethyl	106	99.4	99.0		0.406
	Pyridaben	171				8.44
	Pyriproxyfen	44.9	39.8	37.7		5.48
	Simazine	82.3				3.98
	Stirophos	89.3	70.4	72.0		2.28
	Sulfentrazone	91.0	91.3	80.6		12.5
	Tau-Fluvalinate	65.0	84.8	62.0		31.1
	Tebuconazole	110	102	97.3		4.73
	Terbufos	96.6	91.5	90.5		1.05
	Terbutylazine	86.1	81.9	84.1		2.61
	Tetramethrin	83.6	103	91.3		12.0
	Thiobencarb	88.4	80.9	80.4		0.681
	Trans-Nonachlor	78.7	79.0	64.8		19.8
	Triadimefon	86.7	69.0	70.1		1.55

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Triclosan Methyl	87.6	73.2	71.3			2.68
	Trifluralin	77.6	79.6	75.3			5.55
EPA 8276	Chlordane	78.0	77.8	68.4			11.0
	Toxaphene	67.6	75.2	86.9			14.5
EPA 8321B	2,4-D	123	145	118			18.4
	2,4,5-T	132	107	111			3.16
	3-Hydroxycarbofuran	43.6	85.4	90.9			6.17
	Acesulfame K	99.0	114	118			2.86
	Acetaminophen	75.3	115	94.6			19.3
	Acetamiprid	101	101	111			9.63
	Afidopyropen	83.8	76.5	53.2			35.8
	Aldicarb	63.5	84.3	66.9			22.9
	Aldicarb Sulfone	102	82.9	94.5			12.1
	Aldicarb Sulfoxide	107	49.8	55.2			10.3
	AMPA	99.9	96.8	103			5.76
	Bentazon	96.6	63.3	77.6			12.0
	Benzovindiflupyr	99.1	83.9	79.5			5.46
	Carbamazepine	105	91.4	103			11.5
	Carbaryl	90.3	70.4	66.4			5.84
	Carbofuran	108	102	95.7			6.11
	Clothianidin	101	142	125			13.3
	Dinotefuran	94.8	137	132			2.77
	Diuron	95.7	90.9	86.9			3.81
	Endothall	85.8	105	109			3.52
	Fenuron	101	106	97.6			7.90
	Fluridone	96.1	92.6	98.3			6.00
	Glufosinate	104	103	111			7.30
	Glyphosate	100	93.6	96.1			2.60
	Hydrocodone	89.0	88.8	107			18.3
	Ibuprofen	138	89.7	71.8			22.2
	Imazapyr	105	138	95.9			24.4
	Imidacloprid	103	182	159			12.3
	Linuron	91.4	115	73.2			44.7
	Mandestrobin	99.6	102	89.1			13.9
	MCPP	121	90.6	96.0			5.81
	Methiocarb	94.3	81.1	101			21.5
	Methomyl	101	84.1	85.6			1.73
	Naproxen	112	102	99.8			2.54
	Oxamyl	100	43.9	55.6			12.6
	Primidone	106	78.0	68.6			12.9
	Propoxur	103	81.1	97.9			18.8
	Pyraclostrobin	90.3	105	87.8			17.9
	Silvex	111	103	90.9			12.1
	Sucralose	111	120	114			4.28
	Thiamethoxam	96.7	161	132			18.2
	Tolfenpyrad	46.3	45.6	59.7			26.9
	Triclopyr	107	115	99.5			14.0
SM 2120 B-2011	Color (true)	99.0				1.94	
SM 2320 B-2011	Total Alkalinity	97.7				1.59	
SM 2540 C-2011	TDS					5.45	
SM 4500 F-C-2011	Fluoride	100	99.0	99.7			0.531
SM 5310 B-2011	Organic Carbon	95.2	101	103			1.17

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2299081
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2299120, 2299121, 2299122
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2299120, 2299121, 2299122
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2299081
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2299081
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2299082
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2299082
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2299082
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2299082
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2299083
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2299116, 2299117, 2299118
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2299119
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2299116, 2299117, 2299118
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2299114
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2299106, 2299107, 2299108, 2299109, 2299110, 2299111, 2299112, 2299113, 2299115
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2299081
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2299081
SM 2340B	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2299120
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2299081
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2299081
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2299081
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2299082

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	01/12/2022			01/12/2022 16:21	Khloe J Berg	2299081
EPA 200.7 Rev. 4.4	01/12/2022	01/14/2022 11:00	Vijayalakshmi Reddy	01/18/2022 18:52	Josef B Mick	2299120
	01/12/2022	01/14/2022 11:00	Vijayalakshmi Reddy	01/18/2022 19:19	Josef B Mick	2299121
	01/12/2022	01/14/2022 11:00	Vijayalakshmi Reddy	01/18/2022 19:27	Josef B Mick	2299122
EPA 200.8 Rev. 5.4	01/12/2022	01/14/2022 11:00	Vijayalakshmi Reddy	01/14/2022 16:59	Alexander Thompson	2299120
	01/12/2022	01/14/2022 11:00	Vijayalakshmi Reddy	01/14/2022 18:15	Alexander Thompson	2299121
	01/12/2022	01/14/2022 11:00	Vijayalakshmi Reddy	01/14/2022 18:25	Alexander Thompson	2299122
	01/12/2022	01/20/2022 09:53	Emily M Philpot	01/20/2022 17:53	McKinley C Carter	2299120
	01/12/2022	01/20/2022 09:53	Emily M Philpot	01/20/2022 18:02	McKinley C Carter	2299121
	01/12/2022	01/20/2022 09:53	Emily M Philpot	01/20/2022 19:09	McKinley C Carter	2299122
EPA 300.0 Rev. 2.1	01/12/2022			01/27/2022 19:09	Roberta Tatti	2299081
EPA 350.1 Rev. 2.0	01/12/2022			01/21/2022 12:14	Ping Hua	2299082
EPA 351.2 Rev. 2.0	01/12/2022	01/20/2022 09:13	Samantha L Bates	01/21/2022 13:06	Alexandra J Mattheus	2299082
EPA 353.2 Rev. 2.0	01/12/2022			01/18/2022 10:30	Beverly Y. Sanders	2299082
EPA 365.1 Rev. 2.0	01/12/2022	01/19/2022 16:00	Simonne.V. Calhoun	01/20/2022 15:00	Shengyu Ding	2299082
EPA 365.1 Rev. 2.0 dissolved	01/12/2022			01/12/2022 15:52	James L Waggeberby	2299083
EPA 8270E	01/12/2022	01/14/2022 08:00	Fe-Val Siddell	01/20/2022 19:50	Michael Poppell	2299119
	01/12/2022	01/14/2022 08:00	Fe-Val Siddell	01/25/2022 23:14	Michael Poppell	2299119
	01/12/2022	01/14/2022 08:30	Rasheda Ghaffari	01/18/2022 21:29	Vandana T. Nagar	2299116
	01/12/2022	01/14/2022 08:30	Rasheda Ghaffari	01/18/2022 21:58	Vandana T. Nagar	2299117
	01/12/2022	01/14/2022 08:30	Rasheda Ghaffari	01/18/2022 22:27	Vandana T. Nagar	2299118
EPA 8276	01/12/2022	01/14/2022 08:30	Rasheda Ghaffari	01/20/2022 11:12	Arthur Maknenko	2299116
	01/12/2022	01/14/2022 08:30	Rasheda Ghaffari	01/20/2022 12:07	Arthur Maknenko	2299117
	01/12/2022	01/14/2022 08:30	Rasheda Ghaffari	01/20/2022 13:03	Arthur Maknenko	2299118
EPA 8321B	01/12/2022	01/12/2022 13:00	Juyoung Kim	01/12/2022 20:48	Juyoung Kim	2299106
	01/12/2022	01/12/2022 13:00	Juyoung Kim	01/12/2022 21:20	Manjita Shrestha	2299106
	01/12/2022	01/12/2022 13:00	Juyoung Kim	01/12/2022 22:47	Juyoung Kim	2299107
	01/12/2022	01/12/2022 13:00	Juyoung Kim	01/12/2022 22:57	Juyoung Kim	2299108
	01/12/2022	01/12/2022 13:00	Juyoung Kim	01/12/2022 23:08	Juyoung Kim	2299109
	01/12/2022	01/12/2022 13:00	Juyoung Kim	01/12/2022 23:19	Juyoung Kim	2299110
	01/12/2022	01/12/2022 13:00	Juyoung Kim	01/12/2022 23:30	Juyoung Kim	2299111
	01/12/2022	01/12/2022 13:00	Juyoung Kim	01/12/2022 23:40	Juyoung Kim	2299112
	01/12/2022	01/12/2022 13:00	Juyoung Kim	01/13/2022 00:02	Juyoung Kim	2299113
	01/12/2022	01/12/2022 13:00	Juyoung Kim	01/13/2022 00:03	Manjita Shrestha	2299107
	01/12/2022	01/12/2022 13:00	Juyoung Kim	01/13/2022 00:13	Juyoung Kim	2299115
	01/12/2022	01/12/2022 13:00	Juyoung Kim	01/13/2022 00:18	Manjita Shrestha	2299108
	01/12/2022	01/12/2022 13:00	Juyoung Kim	01/13/2022 00:47	Manjita Shrestha	2299109
	01/12/2022	01/12/2022 13:00	Juyoung Kim	01/13/2022 01:02	Manjita Shrestha	2299110
	01/12/2022	01/12/2022 13:00	Juyoung Kim	01/13/2022 01:17	Manjita Shrestha	2299111
	01/12/2022	01/12/2022 13:00	Juyoung Kim	01/13/2022 01:32	Manjita Shrestha	2299112

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	01/12/2022	01/12/2022 13:00	Juyoung Kim	01/13/2022 01:46	Manjita Shrestha	2299113
	01/12/2022	01/12/2022 13:00	Juyoung Kim	01/13/2022 02:01	Manjita Shrestha	2299115
	01/12/2022	01/13/2022 09:00	Hoor Shaik	01/16/2022 01:31	Juyoung Kim	2299106
	01/12/2022	01/13/2022 09:00	Hoor Shaik	01/16/2022 02:06	Juyoung Kim	2299107
	01/12/2022	01/13/2022 09:00	Hoor Shaik	01/16/2022 02:41	Juyoung Kim	2299108
	01/12/2022	01/13/2022 09:00	Hoor Shaik	01/16/2022 03:50	Juyoung Kim	2299109
	01/12/2022	01/13/2022 09:00	Hoor Shaik	01/16/2022 04:24	Juyoung Kim	2299110
	01/12/2022	01/13/2022 09:00	Hoor Shaik	01/16/2022 04:59	Juyoung Kim	2299111
	01/12/2022	01/13/2022 09:00	Hoor Shaik	01/16/2022 05:34	Juyoung Kim	2299112
	01/12/2022	01/13/2022 09:00	Hoor Shaik	01/16/2022 06:08	Juyoung Kim	2299113
	01/12/2022	01/13/2022 09:00	Hoor Shaik	01/16/2022 06:43	Juyoung Kim	2299115
	01/12/2022	01/14/2022 14:00	Hoor Shaik	01/19/2022 06:40	Juyoung Kim	2299114
	01/12/2022			01/12/2022 15:18	Blanca Fach	2299081
SM 2120 B-2011	01/12/2022			01/14/2022 06:42	Dale L. Simmons	2299081
SM 2320 B-2011	01/12/2022			01/18/2022 18:52	Josef B Mick	2299120
SM 2340B	01/12/2022			01/13/2022 14:02	Yijie Li	2299081
SM 2540 C-2011	01/12/2022			01/13/2022 14:02	Yijie Li	2299081
SM 2540 D-2011	01/12/2022			01/14/2022 06:42	Dale L. Simmons	2299081
SM 4500 F-C-2011	01/12/2022			01/14/2022 23:02	Khloe J Berg	2299082
SM 5310 B-2011	01/12/2022					