

Chemical Analysis Report

TLH-ROC-2022-04-26-01

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **Run 17**
Request ID: **RQ-2022-04-25-44**
Customer: **TLH-ROC**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Rd
Tallahassee, FL 32399
Attn: Michael Eckles

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

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

Date Certified: 18-MAY-2022 16:53



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: South Mosquito Creek @ Power Line

Collection Date/Time: 04/26/2022 09:50

Field ID: G2TLHR0039

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322105	DEP SOP: NU-094-1	Color (true)**	22		PCU	P412923	
	EPA 180.1 Rev. 2.0	Turbidity	15		NTU	P412918	
	EPA 300.0 Rev. 2.1	Sulfate	0.75		mg SO4/L	P413255	
	SM 2320 B-2011	Total Alkalinity	22		mg CaCO3/L	P413551	
	SM 2540 C-2011	TDS	42		mg/L	P413422	
	SM 2540 D-2011	TSS	14		mg/L	P413470	
	SM 4500-F- C-2011	Fluoride	0.055	I	mg F/L	P413554	
2322110	EPA 350.1 Rev. 2.0	Ammonia-N	0.01		mg N/L	P413112	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.32		mg N/L	P413275	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.38		mg N/L	P413217	
	EPA 365.1 Rev. 2.0	Total-P	0.063		mg P/L	P413053	
	SM 5310 B-2011	Organic Carbon	3.7		mg C/L	P413245	
2322115	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.018		mg P/L	P412915	
2322143	EPA 200.7 Rev. 4.4	Calcium	5.87		mg/L	P413013	
		Iron	750		ug/L	P413013	
		Magnesium	2.75		mg/L	P413013	
		Potassium	0.46	I	mg/L	P413013	
		Sodium	2.2		mg/L	P413013	
		Strontium	13.3		ug/L	P413013	
		Tin	3.0	U	ug/L	P413013	
		Titanium	2.4	I	ug/L	P413013	
		Vanadium	2.0	U	ug/L	P413013	
		Zinc	5.0	U	ug/L	P413013	
	EPA 200.8 Rev. 5.4	Aluminum	219		ug/L	P413385	
		Antimony	0.050	U	ug/L	P413013	
		Arsenic	0.48		ug/L	P413013	
		Barium	16.3		ug/L	P413013	
		Beryllium	0.020	I	ug/L	P413013	
		Boron**	10.8		ug/L	P413013	
		Cadmium	0.020	U	ug/L	P413013	
		Chromium	0.46	I	ug/L	P413013	
		Cobalt	0.229		ug/L	P413013	
		Copper	0.40	U	ug/L	P413013	
		Lead	0.26	I	ug/L	P413013	
		Manganese	37.7		ug/L	P413013	
		Molybdenum	0.15	U	ug/L	P413013	
		Nickel	0.50	U	ug/L	P413013	
		Selenium	0.20	U	ug/L	P413013	
		Silver	0.010	U	ug/L	P413013	
		Thallium	0.10	U	ug/L	P413013	
	SM 2340 B-2011	Hardness	26.0		mg/L	P413013	

Ref. Method and Comment:

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

Sample Location: Tributary South Mosquito Creek

Collection Date/Time: 04/26/2022 10:05

Field ID: G2TLHR0008

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322106	DEP SOP: NU-094-1	Color (true)**	28		PCU	P412921	
	EPA 180.1 Rev. 2.0	Turbidity	10		NTU	P412918	
	EPA 300.0 Rev. 2.1	Sulfate	1.1		mg SO4/L	P413255	
	SM 2320 B-2011	Total Alkalinity	63		mg CaCO3/L	P413551	
	SM 2540 C-2011	TDS	71		mg/L	P413423	
	SM 2540 D-2011	TSS	15		mg/L	P413471	
	SM 4500-F- C-2011	Fluoride	0.081	I	mg F/L	P413554	
2322111	EPA 350.1 Rev. 2.0	Ammonia-N	0.009		mg N/L	P413112	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.23		mg N/L	P412927	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.31		mg N/L	P413217	
	EPA 365.1 Rev. 2.0	Total-P	0.028		mg P/L	P413053	
	SM 5310 B-2011	Organic Carbon	2.4		mg C/L	P413245	
2322116	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.012		mg P/L	P412915	
2322144	EPA 200.7 Rev. 4.4	Calcium	16.7		mg/L	P413013	
		Iron	460		ug/L	P413013	
		Magnesium	6.34		mg/L	P413013	
		Potassium	0.62	I	mg/L	P413013	
		Sodium	2.5		mg/L	P413013	
		Strontium	21.2		ug/L	P413013	
		Tin	3.0	U	ug/L	P413013	
		Titanium	1.8	I	ug/L	P413013	
		Vanadium	2.0	U	ug/L	P413013	
		Zinc	5.0	U	ug/L	P413013	
	EPA 200.8 Rev. 5.4	Aluminum	177		ug/L	P413385	
		Antimony	0.050	U	ug/L	P413013	
		Arsenic	0.32		ug/L	P413013	
		Barium	19.7		ug/L	P413013	
		Beryllium	0.016	I	ug/L	P413013	
		Boron**	12.1		ug/L	P413013	
		Cadmium	0.020	U	ug/L	P413013	
		Chromium	0.46	I	ug/L	P413013	
		Cobalt	0.170		ug/L	P413013	
		Copper	0.40	U	ug/L	P413013	
		Lead	0.20	U	ug/L	P413013	
		Manganese	32.6		ug/L	P413013	
		Molybdenum	0.16	I	ug/L	P413013	
		Nickel	0.50	U	ug/L	P413013	
		Selenium	0.20	U	ug/L	P413013	
		Silver	0.010	U	ug/L	P413013	
		Thallium	0.10	U	ug/L	P413013	
	SM 2340 B-2011	Hardness	67.9		mg/L	P413013	

Sample Location: Mosquito Creek @ Jinks Crossing Rd

Collection Date/Time: 04/26/2022 10:30

Field ID: G2TLHR0092

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322103	DEP SOP: NU-094-1	Color (true)**	54		PCU	P412921	
	EPA 180.1 Rev. 2.0	Turbidity	8.8		NTU	P412918	
	EPA 300.0 Rev. 2.1	Chloride	4.8		mg Cl/L	P413252	
		Sulfate	0.91		mg SO4/L	P413255	
	SM 2320 B-2011	Total Alkalinity	24		mg CaCO3/L	P413551	
	SM 2540 C-2011	TDS	62		mg/L	P413422	
	SM 2540 D-2011	TSS	4	I	mg/L	P413470	
	SM 4500-F- C-2011	Fluoride	0.057	I	mg F/L	P413554	
2322104	EPA 350.1 Rev. 2.0	Ammonia-N	0.023		mg N/L	P413112	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.40		mg N/L	P413476	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.79		mg N/L	P413217	
	EPA 365.1 Rev. 2.0	Total-P	0.050		mg P/L	P413053	
	SM 5310 B-2011	Organic Carbon	4.4		mg C/L	P413245	
2322134	EPA 8321B	Aldicarb	0.040	U	ug/L	P413091	
		Aldicarb Sulfone	0.0020	U	ug/L	P413091	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P413091	
		Carbaryl	0.0040	U	ug/L	P413091	
		Carbofuran	0.0040	U	ug/L	P413091	
		3-Hydroxycarbofuran	0.0040	U	ug/L	P413091	
		Methiocarb	0.0020	U	ug/L	P413091	
		Methomyl	0.0020	U	ug/L	P413091	
		Oxamyl	0.0020	U	ug/L	P413091	
		Propoxur	0.0040	U	ug/L	P413091	
		2,4-D	0.0020	U	ug/L	P412965	
		Acesulfame K	0.10	U	ug/L	P412884	
		2,4,5-T	0.0040	U	ug/L	P412965	
2322135		AMPA	0.10	U	ug/L	P412884	
		Acetaminophen	0.0080	U	ug/L	P412965	
		Endothall	0.25	U	ug/L	P412884	
		Acetamiprid	0.0020	U	ug/L	P412965	MS
		Glufosinate	0.10	U	ug/L	P412884	
		Glyphosate	0.10	U	ug/L	P412884	
		Afidopyropen	0.0020	U	ug/L	P412965	
		Bentazon	0.0052		ug/L	P412965	
		Sucralose	0.053		ug/L	P412884	
		Benzovindiflupyr	0.0020	U	ug/L	P412965	
		Carbamazepine	8.0E-04	U	ug/L	P412965	
		Clothianidin	0.0020	U	ug/L	P412965	
		Dinotefuran	0.13		ug/L	P412965	
		Diuron	0.0020	U	ug/L	P412965	
		Fenuron	0.032	U	ug/L	P412965	
		Fluridone	8.0E-04	U	ug/L	P412965	
		Imazapyr	0.027		ug/L	P412965	
		Hydrocodone	0.0020	U	ug/L	P412965	

Field ID: G2TLHR0092

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322135	EPA 8321B	Ibuprofen	0.020	U	ug/L	P412965	
		Imidacloprid	0.0030	I	ug/L	P412965	
		Linuron	0.0040	U	ug/L	P412965	
		Mandestrobin	0.0020	U	ug/L	P412965	
		MCP	0.0040	U	ug/L	P412965	
		Naproxen	0.0080	U	ug/L	P412965	
		Primidone	0.0040	U	ug/L	P412965	
		Pyraclostrobin	0.0020	U	ug/L	P412965	
		Silvex	0.0040	U	ug/L	P412965	
		Thiamethoxam	0.0020	U	ug/L	P412965	
		Tolfenpyrad	0.0020	U	ug/L	P412965	
		Triclopyr	0.0040	U	ug/L	P412965	
2322138	EPA 8270E	Aldrin	0.68	U	ng/L	P412949	
		Alpha-BHC	0.10	U	ng/L	P412949	
		Alpha-Chlordane	0.21	U	ng/L	P412949	
		Beta-BHC	0.10	U	ng/L	P412949	
		Beta-Cyfluthrin**	1.3	U	ng/L	P412949	
		Bifenthrin**	0.52	U	ng/L	P412949	
		Chlorothalonil	1.3	U	ng/L	P412949	
		Cis-Nonachlor**	0.21	U	ng/L	P412949	
		Cypermethrin	1.6	U	ng/L	P412949	
		Dacthal**	0.16	U	ng/L	P412949	
		DDD-p,p'	0.26	U	ng/L	P412949	
		DDE-p,p'	0.21	U	ng/L	P412949	
		DDT-p,p'	0.26	U	ng/L	P412949	
		Delta-BHC	0.42	U	ng/L	P412949	
		Deltamethrin**	1.3	U	ng/L	P412949	
		Dichlobenil**	0.26	U	ng/L	P412949	
		Dicofol	1.3	U	ng/L	P412949	
		Dieldrin	0.42	U	ng/L	P412949	
		Endosulfan I	0.42	U	ng/L	P412949	
		Endosulfan II	0.42	U	ng/L	P412949	
		Endosulfan Sulfate	0.31	U	ng/L	P412949	
		Endrin	0.42	U	ng/L	P412949	
		Endrin Aldehyde	0.79	U	ng/L	P412949	
		Endrin Ketone	0.42	U	ng/L	P412949	
		Esfenvalerate**	0.79	U	ng/L	P412949	
		Ethalfuralin**	0.16	U	ng/L	P412949	
		Fenpropathrin**	0.26	U	ng/L	P412949	
		Gamma-BHC	0.13	U	ng/L	P412949	
		Gamma-Chlordane	0.21	U	ng/L	P412949	
		Heptachlor	0.21	U	ng/L	P412949	
		Heptachlor Epoxide	0.26	U	ng/L	P412949	
		Hexachlorobenzene**	1.0	U	ng/L	P412949	
		Kepone**	5.2	U	ng/L	P412949	

Field ID: G2TLHR0092

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322138	EPA 8270E	Lambda-Cyhalothrin**	0.79	U	ng/L	P412949	
		Methoprene**	0.79	U	ng/L	P412949	
		Methoxychlor	0.31	U	ng/L	P412949	
		MGK-264**	0.21	U	ng/L	P412949	
		Mirex	0.73	U	ng/L	P412949	
		Oxychlorthane**	0.31	U	ng/L	P412949	
		Permethrin	1.7	U	ng/L	P412949	
		Phenothrin**	0.94	U	ng/L	P412949	
		Piperonyl Butoxide**	0.16	U	ng/L	P412949	
		Prallethrin**	2.1	U	ng/L	P412949	
		Tau-Fluvalinate**	0.26	U	ng/L	P412949	
		Tetramethrin**	0.79	U	ng/L	P412949	
		Trans-Nonachlor**	0.21	U	ng/L	P412949	
		Triclosan Methyl**	0.16	U	ng/L	P412949	
		Trifluralin	0.21	U	ng/L	P412949	
		Chlordane	2.6	U	ng/L	P412949	
		Toxaphene	16	U	ng/L	P412949	
2322139	EPA 8270E	Acetochlor	0.28	UJ	ng/L	P413007	SUR
		Alachlor	0.28	UJ	ng/L	P413007	SUR
		Ametryn	0.67	UJ	ng/L	P413007	SUR
		Atrazine	20	J	ng/L	P413007	SUR
		Atrazine Desethyl	14	J	ng/L	P413007	SUR
		Azinphos Methyl	2.2	UJ	ng/L	P413007	SUR
		Azoxystrobin**	2.3	J	ng/L	P413007	SUR
		Bromacil	0.56	UJ	ng/L	P413007	SUR
		Butylate	0.45	UJ	ng/L	P413007	SUR
		Caffeine**	8.4	U	ng/L	P413007	
		Carbophenothion	0.22	UJ	ng/L	P413007	SUR
		Carfentrazone Ethyl**	0.11	UJ	ng/L	P413007	SUR
		Chlorfenapyr**	0.20	UJ	ng/L	P413007	SUR
		Chlorpyrifos Ethyl	0.28	UJ	ng/L	P413007	SUR
		Chlorpyrifos Methyl	0.056	UJ	ng/L	P413007	SUR
		Coumaphos**	0.56	UJ	ng/L	P413007	SUR
		Cyanazine	3.6	UJ	ng/L	P413007	SUR
		Cyprodinil**	0.11	UJ	ng/L	P413007	SUR
		Demeton	1.7	UJ	ng/L	P413007	SUR
		Diazinon	0.14	UJ	ng/L	P413007	SUR
		Difenoconazole**	0.67	UJ	ng/L	P413007	SUR
		Dimethenamid**	0.11	UJ	ng/L	P413007	SUR
		Dimethomorph**	0.20	UJ	ng/L	P413007	SUR
		Disulfoton	0.56	UJ	ng/L	P413007	SUR
		Dithiopyr**	0.20	UJ	ng/L	P413007	SUR
		EPTC	1.4	UJ	ng/L	P413007	SUR
		Ethion	0.17	UJ	ng/L	P413007	SUR
		Ethoprop	0.11	UJ	ng/L	P413007	SUR

Field ID: G2TLHR0092

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322139	EPA 8270E	Etridiazole**	0.17	UJ	ng/L	P413007	SUR
		Fenamiphos	0.56	UJ	ng/L	P413007	SUR
		Fenbuconazole**	0.14	UJ	ng/L	P413007	SUR
		Fipronil	0.28	UJ	ng/L	P413007	SUR
		Fipronil Desulfinyl**	0.14	UJ	ng/L	P413007	SUR
		Fipronil Sulfide	0.17	UJ	ng/L	P413007	LCS, SUR
		Fipronil Sulfone	0.17	UJ	ng/L	P413007	SUR
		Fluazifop-P-butyl**	0.11	UJ	ng/L	P413007	SUR
		Fludioxonil**	1.0	J	ng/L	P413007	SUR
		Flumioxazin**	2.0	UJ	ng/L	P413007	SUR
		Flutolanil**	0.18	IJ	ng/L	P413007	SUR
		Fluxapyroxad**	3.3	J	ng/L	P413007	SUR
		Fonofos	0.22	UJ	ng/L	P413007	SUR
		Hexazinone	0.56	UJ	ng/L	P413007	SUR
		Imazalil**	0.84	UJ	ng/L	P413007	SUR
		Iprodione**	0.67	UJ	ng/L	P413007	SUR
		Loratadine**	0.11	UJ	ng/L	P413007	SUR
		Malathion	0.39	UJ	ng/L	P413007	SUR
		Metalaxyl	0.84	UJ	ng/L	P413007	SUR
		Metolachlor	30	J	ng/L	P413007	SUR
		Metribuzin	6.6	IJ	ng/L	P413007	SUR
		Mevinphos	1.2	UJ	ng/L	P413007	SUR
		Molinate	0.34	UJ	ng/L	P413007	SUR
		Myclobutanil**	0.28	UJ	ng/L	P413007	SUR
		Naled**	1.7	UJ	ng/L	P413007	SUR
		Napropamide**	0.45	UJ	ng/L	P413007	SUR
		Norflurazon	0.87	IJ	ng/L	P413007	SUR
		Oxadiazon	0.34	UJ	ng/L	P413007	SUR
		Oxyfluorfen**	0.17	UJ	ng/L	P413007	SUR
		Parathion Ethyl	0.28	UJ	ng/L	P413007	SUR
		Parathion Methyl	0.62	UJ	ng/L	P413007	SUR
		Pendimethalin	1.1	UJ	ng/L	P413007	SUR
		Phenytol**	3.9	UJ	ng/L	P413007	MS, SUR
		Phorate	0.59	UJ	ng/L	P413007	SUR
		Prodiamine**	0.20	UJ	ng/L	P413007	SUR
		Prometon	1.0	UJ	ng/L	P413007	SUR
		Prometryn	0.22	UJ	ng/L	P413007	SUR
		Pronamide**	0.17	UJ	ng/L	P413007	SUR
		Propanil**	0.14	UJ	ng/L	P413007	SUR
		Propargite**	1.7	UJ	ng/L	P413007	MS, SUR
		Propiconazole**	0.56	UJ	ng/L	P413007	SUR
		Pyraflufen Ethyl**	0.28	UJ	ng/L	P413007	SUR
		Pyridaben**	0.50	UJ	ng/L	P413007	SUR
		Pyriproxyfen**	0.14	UJ	ng/L	P413007	SUR
		Simazine	0.56	UJ	ng/L	P413007	SUR

Field ID: G2TLHR0092

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322139	EPA 8270E	Stirophos**	0.14	UJ	ng/L	P413007	SUR
		Sulfentrazone**	0.56	UJ	ng/L	P413007	SUR
		Tebuconazole**	0.73	IJ	ng/L	P413007	SUR
		Terbufos	0.11	UJ	ng/L	P413007	SUR
		Terbutylazine	0.48	UJ	ng/L	P413007	SUR
		Thiobencarb**	0.67	UJ	ng/L	P413007	SUR
		Triadimefon**	0.28	UJ	ng/L	P413007	SUR
2322142	EPA 200.7 Rev. 4.4	Calcium	7.03		mg/L	P413013	
		Iron	640		ug/L	P413013	
		Magnesium	3.09		mg/L	P413013	
		Potassium	0.83	I	mg/L	P413013	
		Sodium	2.5		mg/L	P413013	
		Strontium	21.3		ug/L	P413013	
		Tin	3.0	U	ug/L	P413013	
		Titanium	1.8	I	ug/L	P413013	
	EPA 200.8 Rev. 5.4	Vanadium	2.0	U	ug/L	P413013	
		Zinc	5.0	U	ug/L	P413013	
		Aluminum	120		ug/L	P413385	
		Antimony	0.050	U	ug/L	P413013	
		Arsenic	0.43		ug/L	P413013	
		Barium	23.6		ug/L	P413013	
		Beryllium	0.010	U	ug/L	P413013	
		Boron**	12.4		ug/L	P413013	
		Cadmium	0.020	U	ug/L	P413013	
		Chromium	0.40	U	ug/L	P413013	
		Cobalt	0.100		ug/L	P413013	
		Copper	0.89		ug/L	P413013	
		Lead	0.22	I	ug/L	P413013	
		Manganese	38.4		ug/L	P413013	
		Molybdenum	0.15	U	ug/L	P413013	
		Nickel	0.50	U	ug/L	P413013	
		Selenium	0.20	U	ug/L	P413013	
		Silver	0.010	U	ug/L	P413013	
		Thallium	0.10	U	ug/L	P413013	
	SM 2340 B-2011	Hardness	30.3		mg/L	P413013	

Ref. Method and Comment:

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

EPA 8321B: MDL for some parameters elevated due to matrix interference.

EPA 8270E: MS accuracy for dieldrin not assessed due to high content of this parameter in the sample spiked.

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

Sample Location: FB

Collection Date/Time: 04/26/2022 10:40

Field ID: FB_04262022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322120	DEP SOP: NU-094-1	Color (true)**	2.5	U	PCU	P412921	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P412918	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P413256	
		Sulfate	0.20	U	mg SO4/L	P413258	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P413552	
	SM 2540 C-2011	TDS	15	U	mg/L	P413421	
	SM 2540 D-2011	TSS	2	U	mg/L	P413469	
	SM 4500-F- C-2011	Fluoride	0.035	U	mg F/L	P413555	
2322121	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P413279	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P413275	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P413217	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P413232	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P413245	
2322136	EPA 8321B	Aldicarb	0.020	U	ug/L	P413091	
		Aldicarb Sulfone	0.0020	U	ug/L	P413091	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P413091	
		Carbaryl	0.0020	U	ug/L	P413091	
		Carbofuran	0.0020	U	ug/L	P413091	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P413091	
		Methiocarb	0.0020	U	ug/L	P413091	
		Methomyl	0.0020	U	ug/L	P413091	
		Oxamyl	0.0020	U	ug/L	P413091	
		Propoxur	0.0020	U	ug/L	P413091	
		2,4-D	0.0020	U	ug/L	P412965	
		Acesulfame K	0.10	U	ug/L	P412884	
2322137		2,4,5-T	0.0040	U	ug/L	P412965	
		AMPA	0.10	U	ug/L	P412884	
		Acetaminophen	0.0080	U	ug/L	P412965	
		Endothall	0.25	U	ug/L	P412884	
		Acetamiprid	0.0020	U	ug/L	P412965	MS
		Glufosinate	0.10	U	ug/L	P412884	
		Glyphosate	0.10	U	ug/L	P412884	
		Afidopyropen	0.0020	U	ug/L	P412965	
		Bentazon	8.0E-04	U	ug/L	P412965	
		Sucralose	0.010	U	ug/L	P412884	
		Benzovindiflupyr	0.0020	U	ug/L	P412965	
		Carbamazepine	8.0E-04	U	ug/L	P412965	
		Clothianidin	0.0020	U	ug/L	P412965	
		Dinotefuran	0.0020	U	ug/L	P412965	
		Diuron	0.0020	U	ug/L	P412965	
		Fenuron	0.032	U	ug/L	P412965	
		Fluridone	8.0E-04	U	ug/L	P412965	
		Imazapyr	0.0040	U	ug/L	P412965	
		Hydrocodone	0.0020	U	ug/L	P412965	

Field ID: FB_04262022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322137	EPA 8321B	Ibuprofen	0.020	U	ug/L	P412965	
		Imidacloprid	0.0020	U	ug/L	P412965	
		Linuron	0.0040	U	ug/L	P412965	
		Mandestrobin	0.0020	U	ug/L	P412965	
		MCP	0.0040	U	ug/L	P412965	
		Naproxen	0.0080	U	ug/L	P412965	
		Primidone	0.0040	U	ug/L	P412965	
		Pyraclostrobin	0.0020	U	ug/L	P412965	
		Silvex	0.0040	U	ug/L	P412965	
		Thiamethoxam	0.0020	U	ug/L	P412965	
		Tolfenpyrad	0.0020	U	ug/L	P412965	
		Triclopyr	0.0040	U	ug/L	P412965	
2322140	EPA 8270E	Aldrin	0.68	U	ng/L	P412949	
		Alpha-BHC	0.10	U	ng/L	P412949	
		Alpha-Chlordane	0.21	U	ng/L	P412949	
		Beta-BHC	0.10	U	ng/L	P412949	
		Beta-Cyfluthrin**	1.3	U	ng/L	P412949	
		Bifenthrin**	0.52	U	ng/L	P412949	
		Chlorothalonil	1.3	U	ng/L	P412949	
		Cis-Nonachlor**	0.21	U	ng/L	P412949	
		Cypermethrin	1.6	U	ng/L	P412949	
		Dacthal**	0.16	U	ng/L	P412949	
		DDD-p,p'	0.26	U	ng/L	P412949	
		DDE-p,p'	0.21	U	ng/L	P412949	
		DDT-p,p'	0.26	U	ng/L	P412949	
		Delta-BHC	0.42	U	ng/L	P412949	
		Deltamethrin**	1.3	U	ng/L	P412949	
		Dichlobenil**	0.26	U	ng/L	P412949	
		Dicofol	1.3	U	ng/L	P412949	
		Dieldrin	0.42	U	ng/L	P412949	
		Endosulfan I	0.42	U	ng/L	P412949	
		Endosulfan II	0.42	U	ng/L	P412949	
		Endosulfan Sulfate	0.31	U	ng/L	P412949	
		Endrin	0.42	U	ng/L	P412949	
		Endrin Aldehyde	0.78	U	ng/L	P412949	
		Endrin Ketone	0.42	U	ng/L	P412949	
		Esfenvalerate**	0.78	U	ng/L	P412949	
		Ethalfuralin**	0.16	U	ng/L	P412949	
		Fenpropathrin**	0.26	U	ng/L	P412949	
		Gamma-BHC	0.13	U	ng/L	P412949	
		Gamma-Chlordane	0.21	U	ng/L	P412949	
		Heptachlor	0.21	U	ng/L	P412949	
		Heptachlor Epoxide	0.26	U	ng/L	P412949	
		Hexachlorobenzene**	1.0	U	ng/L	P412949	
		Kepone**	5.2	U	ng/L	P412949	

Field ID: FB_04262022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322140	EPA 8270E	Lambda-Cyhalothrin**	0.78	U	ng/L	P412949	
		Methoprene**	0.78	U	ng/L	P412949	
		Methoxychlor	0.31	U	ng/L	P412949	
		MGK-264**	0.21	U	ng/L	P412949	
		Mirex	0.73	U	ng/L	P412949	
		Oxychlordane**	0.31	U	ng/L	P412949	
		Permethrin	1.7	U	ng/L	P412949	
		Phenothrin**	0.94	U	ng/L	P412949	
		Piperonyl Butoxide**	0.16	U	ng/L	P412949	
		Prallethrin**	2.1	U	ng/L	P412949	
		Tau-Fluvalinate**	0.26	U	ng/L	P412949	
		Tetramethrin**	0.78	U	ng/L	P412949	
		Trans-Nonachlor**	0.21	U	ng/L	P412949	
		Triclosan Methyl**	0.16	U	ng/L	P412949	
		Trifluralin	0.21	U	ng/L	P412949	
		Chlordane	2.6	U	ng/L	P412949	
		Toxaphene	16	U	ng/L	P412949	
2322141	EPA 8270E	Acetochlor	0.27	U	ng/L	P413007	
		Alachlor	0.27	U	ng/L	P413007	
		Ametryn	0.65	U	ng/L	P413007	
		Atrazine	0.27	U	ng/L	P413007	
		Atrazine Desethyl	1.6	U	ng/L	P413007	
		Azinphos Methyl	2.2	U	ng/L	P413007	
		Azoxystrobin**	0.54	U	ng/L	P413007	
		Bromacil	0.54	U	ng/L	P413007	
		Butylate	0.43	U	ng/L	P413007	
		Caffeine**	8.1	U	ng/L	P413007	
		Carbophenothion	0.22	U	ng/L	P413007	
		Carfentrazone Ethyl**	0.11	U	ng/L	P413007	
		Chlorfenapyr**	0.19	U	ng/L	P413007	
		Chlorpyrifos Ethyl	0.27	U	ng/L	P413007	
		Chlorpyrifos Methyl	0.054	U	ng/L	P413007	
		Coumaphos**	0.54	U	ng/L	P413007	
		Cyanazine	3.5	U	ng/L	P413007	
		Cyprodinil**	0.11	U	ng/L	P413007	
		Demeton	1.6	U	ng/L	P413007	
		Diazinon	0.13	U	ng/L	P413007	
		Difenoconazole**	0.65	U	ng/L	P413007	
		Dimethenamid**	0.11	U	ng/L	P413007	
		Dimethomorph**	0.19	U	ng/L	P413007	
		Disulfoton	0.54	U	ng/L	P413007	
		Dithiopyr**	0.19	U	ng/L	P413007	
		EPTC	1.3	U	ng/L	P413007	
		Ethion	0.16	U	ng/L	P413007	
		Ethoprop	0.11	U	ng/L	P413007	

Field ID: FB_04262022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322141	EPA 8270E	Etridiazole**	0.16	U	ng/L	P413007	
		Fenamiphos	0.54	U	ng/L	P413007	
		Fenbuconazole**	0.13	U	ng/L	P413007	
		Fipronil	0.27	U	ng/L	P413007	
		Fipronil Desulfinyl**	0.13	U	ng/L	P413007	
		Fipronil Sulfide	0.16	UJ	ng/L	P413007	LCS
		Fipronil Sulfone	0.16	U	ng/L	P413007	
		Fluazifop-P-butyl**	0.11	U	ng/L	P413007	
		Fludioxonil**	0.13	U	ng/L	P413007	
		Flumioxazin**	1.9	U	ng/L	P413007	
		Flutolanil**	0.11	U	ng/L	P413007	
		Fluxapyroxad**	0.11	U	ng/L	P413007	
		Fonofos	0.22	U	ng/L	P413007	
		Hexazinone	0.54	U	ng/L	P413007	
		Imazalil**	0.81	U	ng/L	P413007	
		Iprodione**	0.65	U	ng/L	P413007	
		Loratadine**	0.11	U	ng/L	P413007	
		Malathion	0.38	U	ng/L	P413007	
		Metalaxyl	0.81	U	ng/L	P413007	
		Metolachlor	0.38	U	ng/L	P413007	
		Metribuzin	2.7	U	ng/L	P413007	
		Mevinphos	1.1	U	ng/L	P413007	
		Molinate	0.32	U	ng/L	P413007	
		Myclobutanil**	0.27	U	ng/L	P413007	
		Naled**	1.6	U	ng/L	P413007	
		Napropamide**	0.43	U	ng/L	P413007	
		Norflurazon	0.54	U	ng/L	P413007	
		Oxadiazon	0.32	U	ng/L	P413007	
		Oxyfluorfen**	0.16	U	ng/L	P413007	
		Parathion Ethyl	0.27	U	ng/L	P413007	
		Parathion Methyl	0.59	U	ng/L	P413007	
		Pendimethalin	1.1	U	ng/L	P413007	
		Phenytol**	3.8	U	ng/L	P413007	MS
		Phorate	0.57	U	ng/L	P413007	
		Prodiamine**	0.19	U	ng/L	P413007	
		Prometon	0.97	U	ng/L	P413007	
		Prometryn	0.22	U	ng/L	P413007	
		Pronamide**	0.16	U	ng/L	P413007	
		Propanil**	0.13	U	ng/L	P413007	
		Propargite**	1.6	U	ng/L	P413007	MS
		Propiconazole**	0.54	U	ng/L	P413007	
		Pyraflufen Ethyl**	0.27	U	ng/L	P413007	
		Pyridaben**	0.48	U	ng/L	P413007	
		Pyriproxyfen**	0.13	U	ng/L	P413007	
		Simazine	0.54	U	ng/L	P413007	

Field ID: FB_04262022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322141	EPA 8270E	Stirophos**	0.13	U	ng/L	P413007	
		Sulfentrazone**	0.54	U	ng/L	P413007	
		Tebuconazole**	0.54	U	ng/L	P413007	
		Terbufos	0.11	U	ng/L	P413007	
		Terbutylazine	0.46	U	ng/L	P413007	
		Thiobencarb**	0.65	U	ng/L	P413007	
		Triadimefon**	0.27	U	ng/L	P413007	
2322148	EPA 200.7 Rev. 4.4	Calcium	0.075	U	mg/L	P413013	
		Iron	30	U	ug/L	P413013	
		Magnesium	0.040	U	mg/L	P413013	
		Potassium	0.30	U	mg/L	P413013	
		Sodium	0.50	U	mg/L	P413013	
		Strontium	2.0	U	ug/L	P413013	
		Tin	3.0	U	ug/L	P413013	
	EPA 200.8 Rev. 5.4	Titanium	0.75	U	ug/L	P413013	
		Vanadium	2.0	U	ug/L	P413013	
		Zinc	5.0	U	ug/L	P413013	
		Aluminum	5.0	U	ug/L	P413385	
		Antimony	0.050	U	ug/L	P413013	
		Arsenic	0.050	U	ug/L	P413013	
		Barium	0.20	U	ug/L	P413013	
		Beryllium	0.010	U	ug/L	P413013	
		Boron**	2.0	U	ug/L	P413013	
		Cadmium	0.020	U	ug/L	P413013	
		Chromium	0.40	U	ug/L	P413013	
		Cobalt	0.020	U	ug/L	P413013	
		Copper	0.40	U	ug/L	P413013	
		Lead	0.20	U	ug/L	P413013	
		Manganese	0.10	U	ug/L	P413013	
		Molybdenum	0.15	U	ug/L	P413013	
		Nickel	0.50	U	ug/L	P413013	
		Selenium	0.20	U	ug/L	P413013	
		Silver	0.010	U	ug/L	P413013	
		Thallium	0.10	U	ug/L	P413013	
	SM 2340 B-2011	Hardness	0.35	U	mg/L	P413013	

Ref. Method and Comment:

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

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

EPA 8270E: MS accuracy for dieldrin not assessed due to high content of this parameter in the sample spiked.

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

Sample Location: Flat Creek @ CR269

Collection Date/Time: 04/26/2022 10:55

Field ID: G2TLHR0020

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322107	DEP SOP: NU-094-1	Color (true)**	24		PCU	P412923	
	EPA 180.1 Rev. 2.0	Turbidity	17		NTU	P412918	
	EPA 300.0 Rev. 2.1	Sulfate	0.94		mg SO4/L	P413255	
	SM 2320 B-2011	Total Alkalinity	15		mg CaCO3/L	P413551	
	SM 2540 C-2011	TDS	49		mg/L	P413423	
	SM 2540 D-2011	TSS	13		mg/L	P413471	
	SM 4500-F- C-2011	Fluoride	0.079	I	mg F/L	P413554	
2322112	EPA 350.1 Rev. 2.0	Ammonia-N	0.027		mg N/L	P413279	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.30		mg N/L	P413442	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.24		mg N/L	P413217	
	EPA 365.1 Rev. 2.0	Total-P	0.17		mg P/L	P413232	
	SM 5310 B-2011	Organic Carbon	3.9		mg C/L	P413245	
2322117	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.077		mg P/L	P412915	
2322145	EPA 200.7 Rev. 4.4	Calcium	5.01		mg/L	P413013	
		Iron	1.21E+03		ug/L	P413013	
		Magnesium	2.18		mg/L	P413013	
		Potassium	0.44	I	mg/L	P413013	
		Sodium	2.1		mg/L	P413013	
		Strontium	12.8		ug/L	P413013	
		Tin	3.0	U	ug/L	P413013	
		Titanium	4.8		ug/L	P413013	
		Vanadium	2.0	U	ug/L	P413013	
		Zinc	5.0	U	ug/L	P413013	
	EPA 200.8 Rev. 5.4	Aluminum	216		ug/L	P413385	
		Antimony	0.050	U	ug/L	P413013	
		Arsenic	0.69		ug/L	P413013	
		Barium	14.2		ug/L	P413013	
		Beryllium	0.027	I	ug/L	P413013	
		Boron**	9.7		ug/L	P413013	
		Cadmium	0.020	U	ug/L	P413013	
		Chromium	0.66	I	ug/L	P413013	
		Cobalt	0.218		ug/L	P413013	
		Copper	0.40	U	ug/L	P413013	
		Lead	0.30	I	ug/L	P413013	
		Manganese	38.1		ug/L	P413013	
		Molybdenum	0.18	I	ug/L	P413013	
		Nickel	0.50	U	ug/L	P413013	
		Selenium	0.20	U	ug/L	P413013	
		Silver	0.010	U	ug/L	P413013	
		Thallium	0.10	U	ug/L	P413013	
	SM 2340 B-2011	Hardness	21.5		mg/L	P413013	

Ref. Method and Comment:

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Crooked Creek @ Aspalaga Rd

Collection Date/Time: 04/26/2022 11:20

Field ID: G2TLHR0010

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322108	DEP SOP: NU-094-1	Color (true)**	52		PCU	P412921	
	EPA 180.1 Rev. 2.0	Turbidity	14		NTU	P412918	
	EPA 300.0 Rev. 2.1	Sulfate	0.87		mg SO4/L	P413258	
	SM 2320 B-2011	Total Alkalinity	8.6		mg CaCO3/L	P413552	
	SM 2540 C-2011	TDS	41		mg/L	P413423	
	SM 2540 D-2011	TSS	15		mg/L	P413471	
	SM 4500-F- C-2011	Fluoride	0.062	I	mg F/L	P413555	
2322113	EPA 350.1 Rev. 2.0	Ammonia-N	0.015		mg N/L	P413279	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.26		mg N/L	P413442	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.13		mg N/L	P413217	
	EPA 365.1 Rev. 2.0	Total-P	0.17		mg P/L	P413232	
	SM 5310 B-2011	Organic Carbon	3.6		mg C/L	P413245	
2322118	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.085		mg P/L	P412914	
2322146	EPA 200.7 Rev. 4.4	Calcium	3.21		mg/L	P413013	
		Iron	750		ug/L	P413013	
		Magnesium	1.16		mg/L	P413013	
		Potassium	0.30	U	mg/L	P413013	
		Sodium	1.6	I	mg/L	P413013	
		Strontium	7.7	I	ug/L	P413013	
		Tin	3.0	U	ug/L	P413013	
		Titanium	4.4		ug/L	P413013	
		Vanadium	2.0	U	ug/L	P413013	
		Zinc	5.0	U	ug/L	P413013	
	EPA 200.8 Rev. 5.4	Aluminum	241		ug/L	P413385	
		Antimony	0.050	U	ug/L	P413013	
		Arsenic	0.45		ug/L	P413013	
		Barium	10.1		ug/L	P413013	
		Beryllium	0.015	I	ug/L	P413013	
		Boron**	8.5		ug/L	P413013	
		Cadmium	0.020	U	ug/L	P413013	
		Chromium	0.58	I	ug/L	P413013	
		Cobalt	0.176		ug/L	P413013	
		Copper	0.40	U	ug/L	P413013	
		Lead	0.25	I	ug/L	P413013	
		Manganese	22.8		ug/L	P413013	
		Molybdenum	0.15	U	ug/L	P413013	
		Nickel	0.50	U	ug/L	P413013	
		Selenium	0.20	U	ug/L	P413013	
		Silver	0.010	U	ug/L	P413013	
		Thallium	0.10	U	ug/L	P413013	
	SM 2340 B-2011	Hardness	12.8		mg/L	P413013	

Ref. Method and Comment:

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

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Crooked Creek @ SR270

Collection Date/Time: 04/26/2022 11:40

Field ID: G2TLHR0056

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322109	DEP SOP: NU-094-1	Color (true)**	43	A	PCU	P412922	
	EPA 180.1 Rev. 2.0	Turbidity	13		NTU	P412918	
	EPA 300.0 Rev. 2.1	Sulfate	0.69		mg SO4/L	P413258	
	SM 2320 B-2011	Total Alkalinity	4.2		mg CaCO3/L	P413552	
	SM 2540 C-2011	TDS	24	I	mg/L	P413423	
	SM 2540 D-2011	TSS	17		mg/L	P413471	
	SM 4500-F- C-2011	Fluoride	0.064	I	mg F/L	P413555	
2322114	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P413279	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.24		mg N/L	P413444	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.17		mg N/L	P413217	
	EPA 365.1 Rev. 2.0	Total-P	0.20		mg P/L	P413232	
	SM 5310 B-2011	Organic Carbon	3.2		mg C/L	P413245	
2322119	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.11		mg P/L	P412914	
2322147	EPA 200.7 Rev. 4.4	Calcium	2.22		mg/L	P413013	
		Iron	550		ug/L	P413013	
		Magnesium	0.67		mg/L	P413013	
		Potassium	0.30	U	mg/L	P413013	
		Sodium	1.6	I	mg/L	P413013	
		Strontium	6.7	I	ug/L	P413013	
		Tin	3.0	U	ug/L	P413013	
		Titanium	3.2		ug/L	P413013	
		Vanadium	2.0	U	ug/L	P413013	
		Zinc	5.0	U	ug/L	P413013	
	EPA 200.8 Rev. 5.4	Aluminum	256		ug/L	P413385	
		Antimony	0.050	U	ug/L	P413013	
		Arsenic	0.43		ug/L	P413013	
		Barium	9.97		ug/L	P413013	
		Beryllium	0.016	I	ug/L	P413013	
		Boron**	8.5		ug/L	P413013	
		Cadmium	0.021	I	ug/L	P413013	
		Chromium	0.51	I	ug/L	P413013	
		Cobalt	0.174		ug/L	P413013	
		Copper	0.40	U	ug/L	P413013	
		Lead	0.24	I	ug/L	P413013	
		Manganese	16.5		ug/L	P413013	
		Molybdenum	0.15	U	ug/L	P413013	
		Nickel	0.50	U	ug/L	P413013	
		Selenium	0.20	U	ug/L	P413013	
		Silver	0.010	U	ug/L	P413013	
		Thallium	0.10	U	ug/L	P413013	
	SM 2340 B-2011	Hardness	8.3		mg/L	P413013	

Ref. Method and Comment:

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

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P412921

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P412922

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P412923

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P412918

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P413013

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: P413013

Component	Result	Code	Units
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P413013

Component	Result	Code	Units
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P413385

Component	Result	Code	Units
Aluminum	5.0	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413252

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413255

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413256

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413258

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413112

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413279

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P412927

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413275

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413442

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413444

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413476

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P413217

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413053

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413232

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P412914

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P412915

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P412949

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P412949

Component	Result	Code	Units
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.70	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 8270E

Batch ID: P413007

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P413007

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P413007

Component	Result	Code	Units
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P413007

Component	Result	Code	Units
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
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
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
Terbutylazine	0.42	U	ng/L
Terbutylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Triadimefon	0.25	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P413007

Component	Result	Code	Units
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8276
Batch ID: P412949

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

Reference Method: EPA 8321B
Batch ID: P412884

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: P412965

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0040	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P412965

Component	Result	Code	Units
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P413091

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

Reference Method: SM 2320 B-2011
Batch ID: P413551

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

Reference Method: SM 2320 B-2011
Batch ID: P413552

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

Reference Method: SM 2540 C-2011
Batch ID: P413421

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2011
Batch ID: P413422

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2011
Batch ID: P413423

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P413469

Component	Result	Code	Units
TSS	2	U	mg/L

Quality Assurance Report Method Blank Results

Reference Method: SM 2540 D-2011
Batch ID: P413470

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P413471

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P413554

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P413555

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P413245

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P412921

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.6		P	85 - 115

Reference Method: DEP SOP: NU-094-1
Batch ID: P412922

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.3		P	85 - 115

Reference Method: DEP SOP: NU-094-1
Batch ID: P412923

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P412918

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	95.1		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P413013

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	100		P	85 - 115
Iron	104		P	85 - 115
Magnesium	103		P	85 - 115
Potassium	103		P	85 - 115
Sodium	101		P	85 - 115
Strontium	101		P	85 - 115
Tin	102		P	85 - 115
Titanium	102		P	85 - 115
Vanadium	95.9		P	85 - 115
Zinc	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P413013

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Antimony	97.3		P	85 - 115
Arsenic	98.9		P	85 - 115
Barium	104		P	85 - 115
Beryllium	91.3		P	85 - 115
Boron	103		P	85 - 115
Cadmium	98.6		P	85 - 115
Chromium	98.5		P	85 - 115
Cobalt	98.9		P	85 - 115
Copper	94.7		P	85 - 115
Lead	96.5		P	85 - 115
Manganese	99.4		P	85 - 115
Molybdenum	96.1		P	85 - 115
Nickel	97.7		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P413013

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Selenium	96.3		P	85 - 115
Silver	99.5		P	85 - 115
Thallium	97.5		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P413385

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	98.1		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413252

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413255

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413256

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413258

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413112

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413279

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P412927

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413275

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	95.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413442

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413444

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413476

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P413217

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	95.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413053

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413232

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P412914

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P412915

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P412949

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	52.3		P	10 - 93.0
Alpha-BHC	86.6		P	75 - 106
Alpha-Chlordane	90.4		P	50 - 109
Beta-BHC	107		P	36 - 138
Beta-Cyfluthrin	99.5		P	23 - 167
Bifenthrin	85.7		P	11 - 123
Chlorothalonil	106		P	27 - 190
Cis-Nonachlor	78.8		P	40 - 111
Cypermethrin	92.0		P	25 - 155
Dacthal	85.8		P	72 - 119
DDD-p,p'	76.8		P	47 - 108
DDE-p,p'	80.0		P	48 - 107
DDT-p,p'	86.2		P	49 - 111
Delta-BHC	95.0		P	54 - 138
Deltamethrin	96.0		P	22 - 189
Dichlobenil	73.6		P	32 - 113
Dicofol	74.3		P	50 - 108
Dieldrin	85.3		P	56 - 110
Endosulfan I	79.6		P	60 - 105
Endosulfan II	72.9		P	50 - 120
Endosulfan Sulfate	89.1		P	55 - 121
Endrin	74.6		P	31 - 119
Endrin Aldehyde	73.8		P	36 - 116
Endrin Ketone	84.7		P	69 - 177
Esfenvalerate	89.0		P	10 - 179
Ethalfuralin	73.3		P	49 - 99.0
Fenpropathrin	92.6		P	35 - 119
Gamma-BHC	89.2		P	69 - 120
Gamma-Chlordane	74.7		P	45 - 107
Heptachlor	68.3		P	41 - 100
Heptachlor Epoxide	80.4		P	58 - 106
Hexachlorobenzene	78.8		P	39 - 100
Kepone	47.9		P	10 - 191
Lambda-Cyhalothrin	87.4		P	21 - 206
Methoprene	74.4		P	10 - 129
Methoxychlor	85.5		P	61 - 111
MGK-264	68.4		P	20 - 123
Mirex	71.4		P	10 - 182
Oxychlordane	71.9		P	39 - 110
Permethrin	99.9		P	26 - 152
Phenothrin	77.9		P	10 - 109
Piperonyl Butoxide	88.2		P	19 - 147
Prallethrin	61.5		P	14 - 109
Tau-Fluvalinate	87.3		P	16 - 134
Tetramethrin	86.4		P	10 - 125
Trans-Nonachlor	76.9		P	45 - 107
Triclosan Methyl	90.1		P	60 - 110
Trifluralin	78.5		P	44 - 101

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P413007

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	117		P	70 - 121
Alachlor	100		P	68 - 119
Ametryn	137		P	64 - 139
Atrazine	116		P	76 - 120
Atrazine Desethyl	97.6		P	44 - 126
Azinphos Methyl	111		P	43 - 192
Azoxystrobin	112		P	36 - 224
Bromacil	110		P	52 - 121
Butylate	63.3		P	28 - 91.0
Caffeine	93.3		P	50 - 134
Carbophenothion	118		P	56 - 129
Carfentrazone Ethyl	126		P	60 - 141
Chlorfenapyr	97.2		P	56 - 115
Chlorpyrifos Ethyl	99.3		P	60 - 118
Chlorpyrifos Methyl	93.5		P	68 - 119
Coumaphos	111		P	18 - 250
Cyanazine	95.0		P	61 - 250
Cyprodinil	112		P	55 - 145
Demeton	71.0		P	30 - 159
Diazinon	107		P	70 - 123
Difenoconazole	127		P	49 - 204
Dimethenamid	106		P	64 - 115
Dimethomorph	104		P	12 - 219
Disulfoton	97.3		P	44 - 125
Dithiopyr	112		P	64 - 115
EPTC	53.8		P	28 - 86.0
Ethion	113		P	33 - 125
Ethoprop	106		P	64 - 116
Etridiazole	47.9		P	34 - 91.0
Fenamiphos	117		P	12 - 127
Fenbuconazole	115		P	59 - 151
Fipronil	113		P	67 - 129
Fipronil Desulfinyl	117		P	65 - 127
Fipronil Sulfide	130		F	61 - 116
Fipronil Sulfone	109		P	55 - 117
Fluazifop-P-butyl	120		P	62 - 127
Fludioxonil	118		P	62 - 128
Flumioxazin	123		P	33 - 250
Flutolanil	120		P	56 - 127
Fluxapyroxad	118		P	45 - 128
Fonofos	97.6		P	62 - 111
Hexazinone	120		P	46 - 139
Imazalil	89.0		P	38 - 142
Iprodione	123		P	47 - 135
Loratadine	111		P	10 - 244
Malathion	112		P	61 - 139
Metalaxyl	107		P	10 - 119
Metolachlor	107		P	65 - 118
Metribuzin	97.6		P	51 - 250
Mevinphos	99.6		P	53 - 121
Molinate	82.1		P	42 - 96.0
Myclobutanil	109		P	55 - 128

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P413007

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Naled	76.4		P	10 - 98.0
Napropamide	118		P	49 - 121
Norflurazon	111		P	61 - 126
Oxadiazon	97.7		P	59 - 116
Oxyfluorfen	112		P	64 - 137
Parathion Ethyl	106		P	70 - 112
Parathion Methyl	114		P	76 - 133
Pendimethalin	77.6		P	52 - 117
Phenytoin	83.5		P	10 - 199
Phorate	72.6		P	48 - 121
Prodiamine	84.9		P	26 - 142
Prometon	87.4		P	43 - 123
Prometryn	107		P	66 - 127
Pronamide	107		P	75 - 121
Propanil	141		P	45 - 150
Propargite	101		P	42 - 208
Propiconazole	117		P	60 - 125
Pyraflufen Ethyl	104		P	70 - 138
Pyridaben	107		P	35 - 245
Pyriproxyfen	103		P	30 - 149
Simazine	95.5		P	72 - 125
Stirophos	110		P	29 - 164
Sulfentrazone	117		P	21 - 139
Tebuconazole	105		P	10 - 115
Terbufos	95.4		P	60 - 123
Terbuthylazine	108		P	72 - 115
Thiobencarb	94.3		P	31 - 139
Triadimefon	106		P	65 - 116

Reference Method: EPA 8276

Batch ID: P412949

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	72.9		P	61 - 118
Toxaphene	66.5		P	51 - 122

Reference Method: EPA 8321B

Batch ID: P412884

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	99.2		P	40 - 150
AMPA	110		P	40 - 150
Endothall	96.3		P	40 - 150
Glufosinate	109		P	40 - 150
Glyphosate	98.2		P	40 - 150
Sucralose	94.0		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P412965

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	70.4		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P412965

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4,5-T	65.2		P	40 - 150
Acetaminophen	86.4		P	30 - 150
Acetamiprid	68.5		P	40 - 150
Afidopyropen	45.9		P	40 - 150
Bentazon	77.9		P	30 - 150
Benzovindiflupyr	70.4		P	40 - 150
Carbamazepine	62.7		P	40 - 150
Clothianidin	76.3		P	40 - 150
Dinotefuran	102		P	40 - 150
Diuron	74.9		P	40 - 150
Fenuron	89.4		P	40 - 150
Fluridone	68.7		P	40 - 150
Hydrocodone	90.7		P	40 - 150
Ibuprofen	66.1		P	40 - 150
Imazapyr	78.3		P	40 - 150
Imidacloprid	65.2		P	40 - 150
Linuron	65.1		P	40 - 150
Mandestrobin	64.5		P	40 - 150
MCPP	83.0		P	40 - 150
Naproxen	47.6		P	40 - 150
Primidone	79.5		P	40 - 150
Pyraclostrobin	62.4		P	40 - 150
Silvex	75.2		P	40 - 150
Thiamethoxam	76.9		P	40 - 150
Tolfenpyrad	30.4		P	30 - 150
Triclopyr	68.9		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P413091

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	62.6		P	40 - 150
Aldicarb	53.7		P	30 - 150
Aldicarb Sulfone	94.0		P	40 - 150
Aldicarb Sulfoxide	94.1		P	40 - 150
Carbaryl	56.2		P	40 - 150
Carbofuran	61.9		P	40 - 150
Methiocarb	60.4		P	40 - 150
Methomyl	87.6		P	40 - 150
Oxamyl	92.8		P	40 - 150
Propoxur	62.4		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P413551

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.3		P	94 - 106

Reference Method: SM 2320 B-2011

Batch ID: P413552

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P413552

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.6		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P413554

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

Reference Method: SM 4500-F- C-2011
Batch ID: P413555

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

Reference Method: SM 5310 B-2011
Batch ID: P413245

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P413013

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322145	Calcium	98.4		P	80 - 120
2322145	Iron	101	105	P/P	80 - 120
2322145	Magnesium	101	105	P/P	80 - 120
2322145	Potassium	102	104	P/P	80 - 120
2322145	Sodium	100	103	P/P	80 - 120
2322145	Strontium	102	104	P/P	80 - 120
2322145	Tin	102	104	P/P	80 - 120
2322145	Titanium	93.8	94.6	P/P	80 - 120
2322145	Vanadium	97.5	99.5	P/P	80 - 120
2322145	Zinc	101	103	P/P	80 - 120
2322146	Calcium	97.9		P	80 - 120
2322146	Iron	102		P	80 - 120
2322146	Magnesium	102		P	80 - 120
2322146	Potassium	108		P	80 - 120
2322146	Sodium	101		P	80 - 120
2322146	Strontium	101		P	80 - 120
2322146	Tin	101		P	80 - 120
2322146	Titanium	94.7		P	80 - 120
2322146	Vanadium	97.8		P	80 - 120
2322146	Zinc	102		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P413013

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322145	Antimony	95.4	99.3	P/P	80 - 120
2322145	Arsenic	98.6	101	P/P	80 - 120
2322145	Barium	106	107	P/P	80 - 120
2322145	Beryllium	94.9	93.1	P/P	80 - 120
2322145	Boron	103	107	P/P	80 - 120
2322145	Cadmium	99.5	103	P/P	80 - 120
2322145	Chromium	99.8	102	P/P	80 - 120
2322145	Cobalt	100	103	P/P	80 - 120
2322145	Copper	98.4	100	P/P	80 - 120
2322145	Lead	97.8	98.6	P/P	80 - 120
2322145	Manganese	99.1	104	P/P	80 - 120
2322145	Molybdenum	95.3	98.2	P/P	80 - 120
2322145	Nickel	100	103	P/P	80 - 120
2322145	Selenium	96.0	98.1	P/P	80 - 120
2322145	Silver	99.5	101	P/P	80 - 120
2322145	Thallium	101	103	P/P	80 - 120
2322146	Antimony	100		P	80 - 120
2322146	Arsenic	99.2		P	80 - 120
2322146	Barium	106		P	80 - 120
2322146	Beryllium	91.2		P	80 - 120
2322146	Boron	110		P	80 - 120
2322146	Cadmium	103		P	80 - 120
2322146	Chromium	101		P	80 - 120
2322146	Cobalt	99.0		P	80 - 120
2322146	Copper	96.4		P	80 - 120
2322146	Lead	98.7		P	80 - 120
2322146	Manganese	103		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P413013

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322146	Molybdenum	98.4		P	80 - 120
2322146	Nickel	98.7		P	80 - 120
2322146	Selenium	94.6		P	80 - 120
2322146	Silver	101		P	80 - 120
2322146	Thallium	101		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P413385

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322072	Aluminum	96.6	97.2	P/P	80 - 120
2322183	Aluminum	97.0		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413252

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2321936	Chloride	99.6		P	90 - 110
2322001	Chloride	97.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413255

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2321936	Sulfate	96.7		P	90 - 110
2322001	Sulfate	93.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413256

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322156	Chloride	97.3		P	90 - 110
2322378	Chloride	98.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413258

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322156	Sulfate	96.2		P	90 - 110
2322378	Sulfate	97.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413112

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2321995	Ammonia-N	104	106	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413279

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322112	Ammonia-N	100	100	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P412927

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322111	Kjeldahl Nitrogen	101	99.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413275

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322110	Kjeldahl Nitrogen	98.5	105	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413444

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322114	Kjeldahl Nitrogen	105	106	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413476

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322002	Kjeldahl Nitrogen	104	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P413217

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322062	NO2NO3-N	91.2		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413053

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322062	Total-P	101	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413232

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322171	Total-P	99.5	99.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P412914

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322118	O-Phosphate-P	99.2	98.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P412915

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2321875	O-Phosphate-P	97.4	98.2	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P412949

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322373	Aldrin	46.0	51.5	P/P	10 - 89.0
2322373	Alpha-BHC	74.5	79.1	P/P	71 - 105
2322373	Alpha-Chlordane	69.1	73.1	P/P	43 - 107
2322373	Beta-BHC	87.0	93.4	P/P	57 - 152
2322373	Beta-Cyfluthrin	91.9	96.5	P/P	29 - 186
2322373	Bifenthrin	74.1	70.3	P/P	19 - 119
2322373	Chlorothalonil	115	116	P/P	10 - 245
2322373	Cis-Nonachlor	66.8	61.2	P/P	36 - 110
2322373	Cypermethrin	85.8	92.2	P/P	24 - 169
2322373	Dacthal	71.8	82.4	P/P	62 - 115
2322373	DDD-p,p'	66.3	68.0	P/P	36 - 109
2322373	DDE-p,p'	64.0	69.0	P/P	30 - 114
2322373	DDT-p,p'	63.0	72.6	P/P	42 - 108
2322373	Delta-BHC	87.8	94.9	P/P	60 - 164
2322373	Deltamethrin	98.4	97.2	P/P	10 - 210
2322373	Dichlobenil	86.4	94.1	P/P	23 - 108
2322373	Dicofol	61.1	63.6	P/P	44 - 109
2322373	Endosulfan I	64.8	73.7	P/P	52 - 105
2322373	Endosulfan II	62.7	71.6	P/P	35 - 127
2322373	Endosulfan Sulfate	72.5	88.4	P/P	39 - 130
2322373	Endrin	65.1	70.0	P/P	30 - 116
2322373	Endrin Aldehyde	60.1	53.1	P/P	20 - 110
2322373	Endrin Ketone	72.6	81.4	P/P	48 - 134
2322373	Esfenvalerate	89.4	90.9	P/P	10 - 199
2322373	Ethalfuralin	68.9	60.8	P/P	48 - 95.0
2322373	Fenpropathrin	98.6	87.0	P/P	37 - 121
2322373	Gamma-BHC	78.5	77.3	P/P	61 - 126
2322373	Gamma-Chlordane	64.6	70.0	P/P	39 - 105
2322373	Heptachlor	55.3	61.4	P/P	38 - 96.0
2322373	Heptachlor Epoxide	57.3	67.1	P/P	42 - 114
2322373	Hexachlorobenzene	72.4	74.0	P/P	39 - 93.0
2322373	Kepone	51.1	49.4	P/P	10 - 215
2322373	Lambda-Cyhalothrin	82.4	85.0	P/P	10 - 204
2322373	Methoprene	59.8	63.2	P/P	17 - 108
2322373	Methoxychlor	67.9	79.8	P/P	56 - 115
2322373	MGK-264	60.1	71.0	P/P	35 - 120
2322373	Mirex	60.2	62.3	P/P	10 - 178
2322373	Oxychlordane	59.8	66.2	P/P	47 - 91.0
2322373	Permethrin	91.7	89.1	P/P	27 - 170
2322373	Phenothrin	71.3	69.8	P/P	10 - 133
2322373	Piperonyl Butoxide	84.1	101	P/P	23 - 150
2322373	Prallethrin	53.9	59.4	P/P	21 - 113
2322373	Tau-Fluvalinate	87.4	85.3	P/P	16 - 158
2322373	Tetramethrin	81.6	101	P/P	22 - 132
2322373	Trans-Nonachlor	58.8	66.6	P/P	43 - 102
2322373	Triclosan Methyl	65.5	79.6	P/P	49 - 109
2322373	Trifluralin	66.5	69.6	P/P	48 - 93.0

Reference Method: EPA 8270E
Batch ID: P413007

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
---------------	-----------	---------	---------	-----------	----------------

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P413007

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2321429	Acetochlor	98.4	92.8	P/P	65 - 124
2321429	Alachlor	88.9	81.6	P/P	61 - 121
2321429	Ametryn	66.7	63.8	P/P	52 - 216
2321429	Atrazine Desethyl	62.7	63.2	P/P	15 - 160
2321429	Azinphos Methyl	107	95.0	P/P	40 - 292
2321429	Azoxystrobin	120	118	P/P	12 - 242
2321429	Bromacil	81.3	86.3	P/P	54 - 167
2321429	Butylate	59.5	54.7	P/P	14 - 94.0
2321429	Caffeine	87.6	81.2	P/P	10 - 226
2321429	Carbophenothion	90.2	82.7	P/P	49 - 122
2321429	Carfentrazone Ethyl	93.1	80.8	P/P	53 - 138
2321429	Chlorfenapyr	83.2	76.9	P/P	50 - 150
2321429	Chlorpyrifos Ethyl	95.8	88.3	P/P	52 - 122
2321429	Chlorpyrifos Methyl	102	91.0	P/P	66 - 117
2321429	Coumaphos	85.0	81.9	P/P	50 - 220
2321429	Cyanazine	77.5	67.4	P/P	43 - 245
2321429	Cyprodinil	96.7	81.2	P/P	50 - 150
2321429	Demeton	88.0	81.0	P/P	43 - 188
2321429	Diazinon	98.1	90.0	P/P	69 - 131
2321429	Difenoconazole	103	104	P/P	34 - 231
2321429	Dimethenamid	85.7	74.8	P/P	55 - 118
2321429	Dimethomorph	134	128	P/P	50 - 150
2321429	Disulfoton	83.7	82.7	P/P	38 - 141
2321429	Dithiopyr	101	91.2	P/P	42 - 116
2321429	EPTC	39.3	36.7	P/P	18 - 85.0
2321429	Ethion	61.8	55.9	P/P	10 - 131
2321429	Ethoprop	91.3	85.7	P/P	65 - 129
2321429	Etridiazole	61.1	52.5	P/P	50 - 150
2321429	Fenamiphos	72.1	76.0	P/P	31 - 137
2321429	Fenbuconazole	88.9	75.9	P/P	57 - 160
2321429	Fipronil	96.5	84.4	P/P	62 - 132
2321429	Fipronil Desulfinyl	95.3	88.1	P/P	57 - 131
2321429	Fipronil Sulfide	97.2	84.7	P/P	15 - 138
2321429	Fipronil Sulfone	92.4	82.5	P/P	21 - 134
2321429	Fluazifop-P-butyl	108	95.7	P/P	54 - 133
2321429	Fludioxonil	96.1	83.9	P/P	58 - 127
2321429	Flumioxazin	133	128	P/P	33 - 300
2321429	Flutolanil	73.6	69.3	P/P	42 - 130
2321429	Fluxapyroxad	82.0	69.8	P/P	23 - 141
2321429	Fonofos	98.9	90.3	P/P	58 - 119
2321429	Hexazinone	96.7	89.0	P/P	68 - 172
2321429	Imazalil	252	213	P/P	48 - 283
2321429	Iprodione	84.8	79.6	P/P	38 - 140
2321429	Loratadine	119	121	P/P	50 - 150
2321429	Malathion	87.1	85.3	P/P	40 - 137
2321429	Metalaxyl	95.5	82.7	P/P	21 - 129
2321429	Metolachlor	89.6	79.5	P/P	55 - 122
2321429	Metribuzin	81.5	77.7	P/P	38 - 187
2321429	Mevinphos	93.7	89.3	P/P	54 - 134
2321429	Molinate	69.1	68.3	P/P	41 - 97.0
2321429	Myclobutanil	82.1	79.3	P/P	56 - 125
2321429	Naled	101	90.0	P/P	10 - 108

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P413007

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2321429	Napropamide	83.3	75.2	P/P	50 - 150
2321429	Norflurazon	75.5	70.6	P/P	32 - 122
2321429	Oxadiazon	60.5	53.4	P/P	40 - 119
2321429	Oxyfluorfen	109	98.7	P/P	61 - 153
2321429	Parathion Ethyl	97.0	81.1	P/P	59 - 130
2321429	Parathion Methyl	100	93.1	P/P	65 - 155
2321429	Pendimethalin	102	87.4	P/P	49 - 138
2321429	Phenytoin	43.1	32.7	F/F	50 - 200
2321429	Phorate	95.2	83.5	P/P	54 - 161
2321429	Prodiamine	54.8	51.5	P/P	33 - 161
2321429	Prometon	75.9	69.6	P/P	48 - 140
2321429	Prometryn	84.0	73.7	P/P	55 - 134
2321429	Pronamide	97.1	86.2	P/P	66 - 137
2321429	Propanil	116	109	P/P	50 - 150
2321429	Propargite	43.6	41.3	F/F	50 - 200
2321429	Propiconazole	82.7	70.3	P/P	36 - 150
2321429	Pyraflufen Ethyl	71.9	65.3	P/P	50 - 150
2321429	Pyridaben	86.7	77.4	P/P	50 - 200
2321429	Pyriproxyfen	75.3	65.4	P/P	10 - 165
2321429	Simazine	85.5	78.4	P/P	57 - 145
2321429	Stiropfos	61.8	55.7	P/P	50 - 150
2321429	Sulfentrazone	92.6	71.3	P/P	34 - 140
2321429	Tebuconazole	38.3	34.2	P/P	10 - 127
2321429	Terbufos	110	104	P/P	59 - 138
2321429	Terbuthylazine	94.6	87.7	P/P	68 - 119
2321429	Thiobencarb	79.1	72.5	P/P	50 - 150
2321429	Triadimefon	104	103	P/P	50 - 150

Reference Method: EPA 8276

Batch ID: P412949

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322194	Chlordane	69.2	78.5	P/P	55 - 128
2322194	Toxaphene	67.2	69.1	P/P	57 - 211

Reference Method: EPA 8321B

Batch ID: P412884

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2321562	Acesulfame K	95.6	96.3	P/P	40 - 150
2321562	AMPA	106	102	P/P	40 - 150
2321562	Endothall	96.2	95.1	P/P	40 - 150
2321562	Glufosinate	112	93.5	P/P	40 - 150
2321562	Glyphosate	83.0	79.7	P/P	40 - 150
2321562	Sucralose	97.2	95.8	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P412965

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322065	2,4-D	78.8	69.2	P/P	40 - 150
2322065	2,4,5-T	93.2	92.0	P/P	40 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P412965

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322065	Acetaminophen	127	125	P/P	30 - 150
2322065	Acetamiprid	40.8	38.6	P/F	40 - 150
2322065	Afidopyropen	44.2	44.3	P/P	40 - 150
2322065	Bentazon	40.4	47.2	P/P	30 - 150
2322065	Benzovindiflupyr	58.7	57.7	P/P	40 - 150
2322065	Carbamazepine	44.2	43.0	P/P	40 - 150
2322065	Clothianidin	41.5	41.7	P/P	40 - 150
2322065	Dinotefuran	104	105	P/P	40 - 150
2322065	Diuron	50.5	49.2	P/P	40 - 150
2322065	Fenuron	58.5	57.9	P/P	40 - 150
2322065	Fluridone	72.4	70.5	P/P	40 - 150
2322065	Hydrocodone	52.4	52.5	P/P	40 - 150
2322065	Ibuprofen	54.9	55.4	P/P	40 - 150
2322065	Imazapyr	74.5	69.8	P/P	40 - 150
2322065	Imidacloprid	51.4	53.5	P/P	40 - 150
2322065	Linuron	51.5	53.5	P/P	40 - 150
2322065	Mandestrobin	58.9	59.5	P/P	40 - 150
2322065	MCPP	118	118	P/P	40 - 150
2322065	Naproxen	51.5	49.8	P/P	40 - 150
2322065	Primidone	64.5	65.9	P/P	40 - 150
2322065	Pyraclostrobin	67.9	66.0	P/P	40 - 150
2322065	Silvex	96.7	116	P/P	40 - 150
2322065	Thiamethoxam	48.9	48.7	P/P	40 - 150
2322065	Tolfenpyrad	37.6	36.5	P/P	30 - 150
2322065	Triclopyr	86.4	89.6	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P413091

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322134	3-Hydroxycarbofuran	57.4	53.3	P/P	40 - 150
2322134	Aldicarb	46.1	39.9	P/P	30 - 150
2322134	Aldicarb Sulfone	83.9	85.2	P/P	40 - 150
2322134	Aldicarb Sulfoxide	47.2	47.0	P/P	40 - 150
2322134	Carbaryl	51.8	50.6	P/P	40 - 150
2322134	Carbofuran	54.2	55.9	P/P	40 - 150
2322134	Methiocarb	45.6	47.5	P/P	40 - 150
2322134	Methomyl	58.6	56.5	P/P	40 - 150
2322134	Oxamyl	70.9	68.5	P/P	40 - 150
2322134	Propoxur	50.3	51.5	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P413554

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2321990	Fluoride	99.0	99.0	P/P	92 - 107

Reference Method: SM 4500-F- C-2011

Batch ID: P413555

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322887	Fluoride	101	100	P/P	92 - 107

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P413245

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322337	Organic Carbon	99.8	99.7	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P412921

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322021	Color (true)	1.42	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P412922

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322109	Color (true)	2.27	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P412923

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2321970	Color (true)	0.156	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P412918

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322011	Turbidity	1.18	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P413013

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322145	Calcium	0.761	Spike	P	0 - 20
2322145	Iron	3.50	Spike	P	0 - 20
2322145	Magnesium	2.30	Spike	P	0 - 20
2322145	Potassium	1.09	Spike	P	0 - 20
2322145	Sodium	2.23	Spike	P	0 - 20
2322145	Strontium	1.44	Spike	P	0 - 20
2322145	Tin	1.56	Spike	P	0 - 20
2322145	Titanium	0.814	Spike	P	0 - 20
2322145	Vanadium	2.06	Spike	P	0 - 20
2322145	Zinc	1.64	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P413013

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322145	Antimony	3.99	Spike	P	0 - 20
2322145	Arsenic	2.34	Spike	P	0 - 20
2322145	Barium	0.901	Spike	P	0 - 20
2322145	Beryllium	1.88	Spike	P	0 - 20
2322145	Boron	3.54	Spike	P	0 - 20
2322145	Cadmium	3.19	Spike	P	0 - 20
2322145	Chromium	1.75	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P413013

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322145	Cobalt	2.59	Spike	P	0 - 20
2322145	Copper	1.72	Spike	P	0 - 20
2322145	Lead	0.766	Spike	P	0 - 20
2322145	Manganese	2.27	Spike	P	0 - 20
2322145	Molybdenum	2.95	Spike	P	0 - 20
2322145	Nickel	2.49	Spike	P	0 - 20
2322145	Selenium	2.14	Spike	P	0 - 20
2322145	Silver	1.69	Spike	P	0 - 20
2322145	Thallium	1.47	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P413385

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322072	Aluminum	0.571	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P413252

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2321936	Chloride	0.952	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P413255

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2321936	Sulfate	0.846	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P413256

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322156	Chloride	0.501	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P413112

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2321995	Ammonia-N	0.919	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P413279

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322112	Ammonia-N	0.130	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P412927

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322111	Kjeldahl Nitrogen	1.15	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413275

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322110	Kjeldahl Nitrogen	5.20	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413442

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2319209	Kjeldahl Nitrogen	13.7	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413444

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322114	Kjeldahl Nitrogen	1.15	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413476

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322002	Kjeldahl Nitrogen	2.36	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P413217

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322062	NO2NO3-N	0.199	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413053

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322062	Total-P	2.59	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413232

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322171	Total-P	0.294	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P412914

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322118	O-Phosphate-P	0.490	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P412915

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2321875	O-Phosphate-P	0.818	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P412949

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322373	Aldrin	11.2	Spike	P	0 - 37
2322373	Alpha-BHC	5.91	Spike	P	0 - 16
2322373	Alpha-Chlordane	5.70	Spike	P	0 - 28
2322373	Beta-BHC	7.02	Spike	P	0 - 32
2322373	Beta-Cyfluthrin	4.89	Spike	P	0 - 41
2322373	Bifenthrin	5.19	Spike	P	0 - 36
2322373	Chlorothalonil	1.18	Spike	P	0 - 54
2322373	Cis-Nonachlor	8.83	Spike	P	0 - 33
2322373	Cypermethrin	7.12	Spike	P	0 - 38
2322373	Dacthal	13.6	Spike	P	0 - 23
2322373	DDD-p,p'	2.43	Spike	P	0 - 35
2322373	DDE-p,p'	7.53	Spike	P	0 - 27
2322373	DDT-p,p'	14.2	Spike	P	0 - 31
2322373	Delta-BHC	7.76	Spike	P	0 - 30
2322373	Deltamethrin	1.22	Spike	P	0 - 76
2322373	Dichlobenil	8.48	Spike	P	0 - 33
2322373	Dicofol	4.04	Spike	P	0 - 24
2322373	Dieldrin	12.2	Spike	P	0 - 35
2322373	Endosulfan I	12.9	Spike	P	0 - 25
2322373	Endosulfan II	13.2	Spike	P	0 - 31
2322373	Endosulfan Sulfate	19.7	Spike	P	0 - 38
2322373	Endrin	7.21	Spike	P	0 - 53
2322373	Endrin Aldehyde	12.3	Spike	P	0 - 81
2322373	Endrin Ketone	11.4	Spike	P	0 - 33
2322373	Esfenvalerate	1.72	Spike	P	0 - 46
2322373	Ethalfuralin	12.5	Spike	P	0 - 22
2322373	Fenpropathrin	12.5	Spike	P	0 - 29
2322373	Gamma-BHC	1.49	Spike	P	0 - 17
2322373	Gamma-Chlordane	7.99	Spike	P	0 - 28
2322373	Heptachlor	10.4	Spike	P	0 - 28
2322373	Heptachlor Epoxide	10.3	Spike	P	0 - 23
2322373	Hexachlorobenzene	2.27	Spike	P	0 - 22
2322373	Kepone	3.56	Spike	P	0 - 61
2322373	Lambda-Cyhalothrin	3.13	Spike	P	0 - 52
2322373	Methoprene	5.55	Spike	P	0 - 38
2322373	Methoxychlor	16.1	Spike	P	0 - 29
2322373	MGK-264	16.6	Spike	P	0 - 41

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P412949

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322373	Mirex	3.35	Spike	P	0 - 39
2322373	Oxychlordane	10.2	Spike	P	0 - 33
2322373	Permethrin	2.90	Spike	P	0 - 39
2322373	Phenothrin	2.20	Spike	P	0 - 52
2322373	Piperonyl Butoxide	18.2	Spike	P	0 - 91
2322373	Prallethrin	9.80	Spike	P	0 - 34
2322373	Tau-Fluvalinate	2.44	Spike	P	0 - 41
2322373	Tetramethrin	20.8	Spike	P	0 - 43
2322373	Trans-Nonachlor	12.4	Spike	P	0 - 31
2322373	Triclosan Methyl	19.4	Spike	P	0 - 24
2322373	Trifluralin	4.57	Spike	P	0 - 23

Reference Method: EPA 8270E

Batch ID: P413007

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2321429	Acetochlor	5.91	Spike	P	0 - 27
2321429	Alachlor	8.54	Spike	P	0 - 27
2321429	Ametryn	4.42	Spike	P	0 - 34
2321429	Atrazine	11.4	Spike	P	0 - 41
2321429	Atrazine Desethyl	0.699	Spike	P	0 - 38
2321429	Azinphos Methyl	12.0	Spike	P	0 - 62
2321429	Azoxystrobin	1.48	Spike	P	0 - 32
2321429	Bromacil	5.88	Spike	P	0 - 30
2321429	Butylate	8.45	Spike	P	0 - 59
2321429	Caffeine	7.50	Spike	P	0 - 60
2321429	Carbophenothion	8.75	Spike	P	0 - 25
2321429	Carfentrazone Ethyl	14.2	Spike	P	0 - 26
2321429	Chlorfenapyr	7.86	Spike	P	0 - 30
2321429	Chlorpyrifos Ethyl	8.06	Spike	P	0 - 27
2321429	Chlorpyrifos Methyl	11.0	Spike	P	0 - 26
2321429	Coumaphos	3.67	Spike	P	0 - 30
2321429	Cyanazine	13.9	Spike	P	0 - 58
2321429	Cyprodinil	17.4	Spike	P	0 - 30
2321429	Demeton	8.22	Spike	P	0 - 25
2321429	Diazinon	8.58	Spike	P	0 - 29
2321429	Difenoconazole	1.61	Spike	P	0 - 25
2321429	Dimethenamid	13.5	Spike	P	0 - 30
2321429	Dimethomorph	4.08	Spike	P	0 - 30
2321429	Disulfoton	1.19	Spike	P	0 - 33
2321429	Dithiopyr	10.0	Spike	P	0 - 22
2321429	EPTC	6.75	Spike	P	0 - 38
2321429	Ethion	10.0	Spike	P	0 - 79
2321429	Ethoprop	6.28	Spike	P	0 - 23
2321429	Etridiazole	15.2	Spike	P	0 - 30
2321429	Fenamiphos	5.22	Spike	P	0 - 58
2321429	Fenbuconazole	15.7	Spike	P	0 - 37
2321429	Fipronil	13.4	Spike	P	0 - 33
2321429	Fipronil Desulfinyl	7.87	Spike	P	0 - 26
2321429	Fipronil Sulfide	13.7	Spike	P	0 - 37

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P413007

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2321429	Fipronil Sulfone	10.1	Spike	P	0 - 50
2321429	Fluazifop-P-butyl	12.5	Spike	P	0 - 24
2321429	Fludioxonil	13.6	Spike	P	0 - 26
2321429	Flumioxazin	4.25	Spike	P	0 - 37
2321429	Flutolanil	5.74	Spike	P	0 - 26
2321429	Fluxapyroxad	16.1	Spike	P	0 - 34
2321429	Fonofos	9.14	Spike	P	0 - 27
2321429	Hexazinone	8.38	Spike	P	0 - 36
2321429	Imazalil	16.9	Spike	P	0 - 65
2321429	Iprodione	6.27	Spike	P	0 - 33
2321429	Loratadine	1.50	Spike	P	0 - 30
2321429	Malathion	2.09	Spike	P	0 - 44
2321429	Metaxyl	14.4	Spike	P	0 - 38
2321429	Metolachlor	11.9	Spike	P	0 - 36
2321429	Metribuzin	4.84	Spike	P	0 - 63
2321429	Mevinphos	4.81	Spike	P	0 - 26
2321429	Molinate	1.19	Spike	P	0 - 40
2321429	Myclobutanil	3.48	Spike	P	0 - 21
2321429	Naled	11.9	Spike	P	0 - 26
2321429	Napropamide	10.3	Spike	P	0 - 30
2321429	Norflurazon	6.64	Spike	P	0 - 24
2321429	Oxadiazon	8.64	Spike	P	0 - 27
2321429	Oxyfluorfen	9.69	Spike	P	0 - 24
2321429	Parathion Ethyl	17.9	Spike	P	0 - 28
2321429	Parathion Methyl	7.26	Spike	P	0 - 27
2321429	Pendimethalin	15.6	Spike	P	0 - 31
2321429	Phenytoin	27.4	Spike	P	0 - 30
2321429	Phorate	13.1	Spike	P	0 - 27
2321429	Prodiamine	6.29	Spike	P	0 - 52
2321429	Prometon	8.69	Spike	P	0 - 31
2321429	Prometryn	13.1	Spike	P	0 - 28
2321429	Pronamide	11.9	Spike	P	0 - 26
2321429	Propanil	6.70	Spike	P	0 - 30
2321429	Propargite	5.34	Spike	P	0 - 30
2321429	Propiconazole	16.2	Spike	P	0 - 31
2321429	Pyraflufen Ethyl	9.74	Spike	P	0 - 30
2321429	Pyridaben	11.3	Spike	P	0 - 30
2321429	Pyriproxyfen	14.1	Spike	P	0 - 50
2321429	Simazine	8.75	Spike	P	0 - 29
2321429	Stirophos	10.4	Spike	P	0 - 30
2321429	Sulfentrazone	15.3	Spike	P	0 - 33
2321429	Tebuconazole	11.3	Spike	P	0 - 44
2321429	Terbufos	5.41	Spike	P	0 - 29
2321429	Terbutylazine	7.60	Spike	P	0 - 27
2321429	Thiobencarb	8.78	Spike	P	0 - 30
2321429	Triadimefon	1.26	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8276

Batch ID: P412949

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322194	Chlordane	12.5	Spike	P	0 - 25
2322194	Toxaphene	2.82	Spike	P	0 - 24

Reference Method: EPA 8321B

Batch ID: P412884

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2321562	Acesulfame K	0.663	Spike	P	0 - 30
2321562	AMPA	4.34	Spike	P	0 - 30
2321562	Endothall	1.10	Spike	P	0 - 30
2321562	Glufosinate	18.3	Spike	P	0 - 30
2321562	Glyphosate	4.13	Spike	P	0 - 30
2321562	Sucralose	1.43	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P412965

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322065	2,4-D	9.47	Spike	P	0 - 30
2322065	2,4,5-T	1.30	Spike	P	0 - 30
2322065	Acetaminophen	1.95	Spike	P	0 - 30
2322065	Acetamiprid	5.51	Spike	P	0 - 30
2322065	Afidopyropen	0.375	Spike	P	0 - 30
2322065	Bentazon	9.58	Spike	P	0 - 30
2322065	Benzovindiflupyr	1.69	Spike	P	0 - 30
2322065	Carbamazepine	2.77	Spike	P	0 - 30
2322065	Clothianidin	0.436	Spike	P	0 - 30
2322065	Dinotefuran	0.497	Spike	P	0 - 30
2322065	Diuron	1.61	Spike	P	0 - 30
2322065	Fenuron	1.11	Spike	P	0 - 30
2322065	Fluridone	2.62	Spike	P	0 - 30
2322065	Hydrocodone	0.237	Spike	P	0 - 30
2322065	Ibuprofen	0.822	Spike	P	0 - 30
2322065	Imazapyr	5.94	Spike	P	0 - 30
2322065	Imidacloprid	3.86	Spike	P	0 - 30
2322065	Linuron	3.80	Spike	P	0 - 30
2322065	Mandestrobin	1.00	Spike	P	0 - 30
2322065	MCPP	0.359	Spike	P	0 - 30
2322065	Naproxen	3.34	Spike	P	0 - 30
2322065	Primidone	2.12	Spike	P	0 - 30
2322065	Pyraclostrobin	2.93	Spike	P	0 - 30
2322065	Silvex	18.1	Spike	P	0 - 30
2322065	Thiamethoxam	0.261	Spike	P	0 - 30
2322065	Tolfenpyrad	3.03	Spike	P	0 - 30
2322065	Triclopyr	3.61	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P413091

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322134	3-Hydroxycarbofuran	7.49	Spike	P	0 - 30
2322134	Aldicarb	14.4	Spike	P	0 - 30
2322134	Aldicarb Sulfone	1.59	Spike	P	0 - 30
2322134	Aldicarb Sulfoxide	0.269	Spike	P	0 - 30
2322134	Carbaryl	2.31	Spike	P	0 - 30
2322134	Carbofuran	3.05	Spike	P	0 - 30
2322134	Methiocarb	4.12	Spike	P	0 - 30
2322134	Methomyl	3.65	Spike	P	0 - 30
2322134	Oxamyl	3.47	Spike	P	0 - 30
2322134	Propoxur	2.54	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P413551

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2321990	Total Alkalinity	1.68	Sample	P	0 - 5.2

Reference Method: SM 2320 B-2011
Batch ID: P413552

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322887	Total Alkalinity	1.05	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P413421

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2321969	TDS	3.66	Sample	P	0 - 10

Reference Method: SM 2540 C-2011
Batch ID: P413422

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2321999	TDS	4.08	Sample	P	0 - 10

Reference Method: SM 2540 C-2011
Batch ID: P413423

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322293	TDS	4.16	Sample	P	0 - 10

Reference Method: SM 2540 D-2011
Batch ID: P413471

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

Quality Assurance Report Precision

Reference Method: SM 2540 D-2011
Batch ID: P413471

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322293	TSS	7.41	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P413554

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2321990	Fluoride	0.0	Spike	P	0 - 2.1

Reference Method: SM 4500-F- C-2011
Batch ID: P413555

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322887	Fluoride	0.498	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P413245

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322337	Organic Carbon	0.0740	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2322134
Field Sample ID: G2TLHR0092

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	44.7	P	30 - 160

Lab Sample ID: 2322135
Field Sample ID: G2TLHR0092

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	67.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	95.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	55.2	P	30 - 160
EPA 8321B	Diuron-d6	51.5	P	30 - 160
EPA 8321B	Endothall-d6	100	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	86.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	63.8	P	30 - 160
EPA 8321B	Primidone-d5	83.9	P	30 - 160
EPA 8321B	Sucralose-d6	104	P	30 - 160

Lab Sample ID: 2322136
Field Sample ID: FB_04262022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	63.2	P	30 - 160

Lab Sample ID: 2322137
Field Sample ID: FB_04262022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	64.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	89.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	72.1	P	30 - 160
EPA 8321B	Diuron-d6	83.5	P	30 - 160
EPA 8321B	Endothall-d6	101	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	96.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	65.3	P	30 - 160
EPA 8321B	Primidone-d5	86.0	P	30 - 160
EPA 8321B	Sucralose-d6	101	P	30 - 160

Lab Sample ID: 2322138
Field Sample ID: G2TLHR0092

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	70.8	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	52.2	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	61.0	P	30 - 97.0
EPA 8276	PCNB	62.9	P	45 - 119

Lab Sample ID: 2322139
Field Sample ID: G2TLHR0092

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	120	P	20 - 200
EPA 8270E	Simazine-d10	153	F	71 - 140
EPA 8270E	Terbufos-d10	132	F	62 - 131

Quality Assurance Report Surrogates

Lab Sample ID: 2322140

Field Sample ID: FB_04262022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	67.4	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	76.2	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	59.5	P	30 - 97.0
EPA 8276	PCNB	73.1	P	45 - 119

Lab Sample ID: 2322141

Field Sample ID: FB_04262022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	90.0	P	20 - 200
EPA 8270E	Simazine-d10	114	P	71 - 140
EPA 8270E	Terbufos-d10	103	P	62 - 131

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A111698

Included Lab Sample IDs: 2322115, 2322116, 2322117, 2322118, 2322119

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.8	99.2	P/P	90 - 110
O-Phosphate-P	99.2	99.5	P/P	90 - 110
O-Phosphate-P	99.5	99.2	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A111700

Included Lab Sample IDs: 2322103, 2322105, 2322106, 2322107, 2322108, 2322109, 2322120

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.5	99.0	P/P	95 - 105
Turbidity	99.0	99.5	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1

Run ID: A111702

Included Lab Sample IDs: 2322103, 2322105, 2322106, 2322107, 2322108, 2322109, 2322120

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	100	P/P	85 - 115
Color (true)	100	102	P/P	85 - 115
Color (true)	102	99.8	P/P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A111715

Included Lab Sample IDs: 2322103

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	100	P/P	90 - 110
Sulfate	102	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A111794

Included Lab Sample IDs: 2322111

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	96.1	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A111801

Included Lab Sample IDs: 2322104, 2322110, 2322111

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.7	98.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A111841

Included Lab Sample IDs: 2322104, 2322110, 2322111, 2322112, 2322113, 2322114, 2322121

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	94.0	93.5	P/P	90 - 110
NO2NO3-N	96.5	94.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A111856

Included Lab Sample IDs: 2322104, 2322110, 2322111, 2322112, 2322113, 2322114, 2322121

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	102	101	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A111858

Included Lab Sample IDs: 2322142, 2322143, 2322144, 2322145, 2322146, 2322147, 2322148

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Antimony	98.9	99.6	P/P	90 - 110
Antimony	99.6	99.4	P/P	90 - 110
Arsenic	100	101	P/P	90 - 110
Arsenic	101	96.5	P/P	90 - 110
Barium	100	101	P/P	90 - 110
Barium	101	98.7	P/P	90 - 110
Beryllium	93.3	94.3	P/P	90 - 110
Beryllium	94.3	91.1	P/P	90 - 110
Boron	99.0	102	P/P	90 - 110
Boron	99.2	99.0	P/P	90 - 110
Cadmium	101	100	P/P	90 - 110
Cadmium	101	101	P/P	90 - 110
Chromium	100	98.3	P/P	90 - 110
Chromium	98.6	100	P/P	90 - 110
Cobalt	101	96.1	P/P	90 - 110
Cobalt	98.6	101	P/P	90 - 110
Copper	96.0	98.8	P/P	90 - 110
Copper	98.8	92.8	P/P	90 - 110
Lead	99.2	99.8	P/P	90 - 110
Lead	99.8	97.9	P/P	90 - 110
Manganese	101	98.3	P/P	90 - 110
Manganese	98.2	101	P/P	90 - 110
Molybdenum	96.8	93.7	P/P	90 - 110
Molybdenum	97.4	96.8	P/P	90 - 110
Nickel	101	95.0	P/P	90 - 110
Nickel	98.3	101	P/P	90 - 110
Selenium	98.3	99.0	P/P	90 - 110
Selenium	99.0	96.8	P/P	90 - 110
Silver	102	102	P/P	90 - 110
Silver	102	101	P/P	90 - 110
Thallium	95.2	96.4	P/P	90 - 110
Thallium	96.4	95.0	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A111865

Included Lab Sample IDs: 2322120

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.6	99.5	P/P	90 - 110
Sulfate	99.6	99.6	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A111866

Included Lab Sample IDs: 2322135, 2322137

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	99.2	102	P/P	60 - 160
Sucralose	95.6	97.7	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A111868

Included Lab Sample IDs: 2322135, 2322137

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	109	111	P/P	60 - 160
Endothall	91.3	91.0	P/P	60 - 160
Glufosinate	102	102	P/P	60 - 160
Glyphosate	94.5	93.9	P/P	60 - 160

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A111875

Included Lab Sample IDs: 2322112, 2322113, 2322114, 2322121

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.8	98.3	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A111876

Included Lab Sample IDs: 2322135, 2322137

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	69.3	71.5	P/P	50 - 150
2,4,5-T	81.4	80.7	P/P	50 - 150
Acetaminophen	92.4	91.9	P/P	60 - 160
Acetamiprid	109	109	P/P	50 - 150
Afidopyropen	85.6	73.5	P/P	50 - 150
Bentazon	111	107	P/P	50 - 160
Benzovindiflupyr	107	103	P/P	50 - 150
Carbamazepine	106	101	P/P	60 - 150
Clothianidin	91.1	94.3	P/P	60 - 150
Dinotefuran	106	107	P/P	50 - 150
Diuron	109	110	P/P	60 - 160
Fenuron	108	106	P/P	60 - 150
Fluridone	106	101	P/P	60 - 160
Hydrocodone	104	105	P/P	60 - 150
Ibuprofen	92.1	94.6	P/P	50 - 160
Imazapyr	101	97.2	P/P	50 - 150
Imidacloprid	100	101	P/P	60 - 150
Linuron	107	109	P/P	60 - 150
Mandestrobin	104	101	P/P	50 - 150
MCPP	80.9	79.7	P/P	50 - 150
Naproxen	83.3	88.6	P/P	50 - 160
Primidone	87.4	88.1	P/P	60 - 150
Pyraclostrobin	104	96.5	P/P	60 - 150
Silvex	75.3	78.6	P/P	50 - 150
Thiamethoxam	99.6	103	P/P	50 - 150
Tolfenpyrad	75.4	72.7	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A111876

Included Lab Sample IDs: 2322135, 2322137

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Triclopyr	75.1	73.8	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A111879

Included Lab Sample IDs: 2322110

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A111897

Included Lab Sample IDs: 2322142, 2322143, 2322144, 2322145, 2322146, 2322147, 2322148

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	96.7	97.2	P/P	90 - 110
Calcium	97.2	97.9	P/P	90 - 110
Calcium	98.7	96.7	P/P	95 - 105
Iron	102	99.6	P/P	95 - 105
Iron	99.6	99.9	P/P	90 - 110
Iron	99.9	100	P/P	90 - 110
Magnesium	101	99.0	P/P	95 - 105
Magnesium	99.0	99.5	P/P	90 - 110
Magnesium	99.5	100	P/P	90 - 110
Potassium	100	101	P/P	90 - 110
Potassium	100	100	P/P	90 - 110
Potassium	99.9	100	P/P	95 - 105
Sodium	98.2	98.9	P/P	95 - 105
Sodium	98.8	99.8	P/P	90 - 110
Sodium	98.9	98.8	P/P	90 - 110
Strontium	98.9	99.3	P/P	90 - 110
Strontium	99.2	98.9	P/P	95 - 105
Strontium	99.3	102	P/P	90 - 110
Tin	100	100	P/P	90 - 110
Tin	99.3	99.5	P/P	95 - 105
Tin	99.5	100	P/P	90 - 110
Titanium	100	98.0	P/P	90 - 110
Titanium	101	100	P/P	95 - 105
Titanium	98.0	102	P/P	90 - 110
Vanadium	100	99.5	P/P	95 - 105
Vanadium	100	102	P/P	90 - 110
Vanadium	99.5	100	P/P	90 - 110
Zinc	101	101	P/P	95 - 105
Zinc	101	99.9	P/P	90 - 110
Zinc	99.9	101	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A111898

Included Lab Sample IDs: 2322145

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beryllium	93.8	94.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A111915

Included Lab Sample IDs: 2322112, 2322113, 2322114

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A111919

Included Lab Sample IDs: 2322145

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Titanium	99.0	96.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A111924

Included Lab Sample IDs: 2322104, 2322111

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

Reference Method: EPA 8321B

Run ID: A111932

Included Lab Sample IDs: 2322134, 2322136

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	101	103	P/P	60 - 150
3-Hydroxycarbofuran	99.9	101	P/P	60 - 150
Aldicarb	87.2	82.3	P/P	60 - 150
Aldicarb	99.1	106	P/P	60 - 150
Aldicarb Sulfone	101	100	P/P	50 - 150
Aldicarb Sulfoxide	98.1	95.2	P/P	50 - 150
Carbaryl	101	98.7	P/P	60 - 150
Carbaryl	95.3	95.3	P/P	60 - 150
Carbofuran	99.2	100	P/P	50 - 150
Carbofuran	99.5	99.6	P/P	50 - 150
Methiocarb	98.8	96.2	P/P	50 - 150
Methomyl	103	101	P/P	50 - 150
Oxamyl	101	100	P/P	50 - 150
Propoxur	102	101	P/P	50 - 150
Propoxur	103	101	P/P	50 - 150

Reference Method: EPA 8270E

Run ID: A111934

Included Lab Sample IDs: 2322138, 2322140

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	103		P	80 - 120
Alpha-BHC	97.2		P	80 - 120
Alpha-Chlordane	105		P	80 - 120
Beta-BHC	97.8		P	80 - 120
Beta-Cyfluthrin	105		P	80 - 120
Bifenthrin	105		P	80 - 120
Chlorothalonil	95.7		P	80 - 120
Cis-Nonachlor	103		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A111934

Included Lab Sample IDs: 2322138, 2322140

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cypermethrin	107		P	80 - 120
Dacthal	99.3		P	80 - 120
DDD-p,p'	108		P	80 - 120
DDE-p,p'	100		P	80 - 120
DDT-p,p'	96.3		P	80 - 120
Delta-BHC	94.9		P	80 - 120
Deltamethrin	105		P	80 - 120
Dichlobenil	101		P	80 - 120
Dicofol	98.2		P	80 - 120
Dieldrin	102		P	80 - 120
Endosulfan I	97.7		P	80 - 120
Endosulfan II	113		P	80 - 120
Endosulfan Sulfate	114		P	80 - 120
Endrin	109		P	80 - 120
Endrin Aldehyde	99.5		P	80 - 120
Endrin Ketone	100		P	80 - 120
Esfenvalerate	112		P	80 - 120
Ethalfuralin	97.5		P	80 - 120
Fenpropathrin	102		P	80 - 120
Gamma-BHC	95.2		P	80 - 120
Gamma-Chlordane	101		P	80 - 120
Heptachlor	101		P	80 - 120
Heptachlor Epoxide	95.5		P	80 - 120
Hexachlorobenzene	99.3		P	80 - 120
Kepone	117		P	80 - 120
Lambda-Cyhalothrin	101		P	80 - 120
Methoprene	97.2		P	80 - 120
Methoxychlor	96.0		P	80 - 120
MGK-264	105		P	80 - 120
Mirex	105		P	80 - 120
Oxychlordane	92.6		P	80 - 120
Permethrin	109		P	80 - 120
Phenothrin	107		P	80 - 120
Piperonyl Butoxide	104		P	80 - 120
Prallethrin	99.2		P	80 - 120
Tau-Fluvalinate	107		P	80 - 120
Tetramethrin	106		P	80 - 120
Trans-Nonachlor	96.2		P	80 - 120
Triclosan Methyl	96.1		P	80 - 120
Trifluralin	93.0		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A111944

Included Lab Sample IDs: 2322121

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.2	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A111948

Included Lab Sample IDs: 2322142, 2322143, 2322144, 2322145, 2322146, 2322147, 2322148

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.4	98.6	P/P	90 - 110
Aluminum	98.6	100	P/P	90 - 110
Aluminum	99.6	98.4	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A111981

Included Lab Sample IDs: 2322138, 2322140

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	98.4		P	80 - 120
Toxaphene	106		P	80 - 120

Reference Method: SM 2320 B-2011

Run ID: A111985

Included Lab Sample IDs: 2322103, 2322105, 2322106, 2322107, 2322108, 2322109, 2322120

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.8	97.8	P/P	90 - 110
Total Alkalinity	97.8	96.0	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A111985

Included Lab Sample IDs: 2322103, 2322105, 2322106, 2322107, 2322108, 2322109, 2322120

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	103	P/P	90 - 110
Fluoride	103	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A112015

Included Lab Sample IDs: 2322112, 2322113, 2322114

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	96.9	P/P	90 - 110
Kjeldahl Nitrogen	97.8	98.1	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A112025

Included Lab Sample IDs: 2322139, 2322141

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	92.4		P	80 - 120
Alachlor	99.4		P	80 - 120
Ametryn	97.9		P	80 - 120
Atrazine	98.9		P	80 - 120
Atrazine Desethyl	111		P	80 - 120
Azinphos Methyl	96.8		P	80 - 120
Azoxystrobin	103		P	80 - 120
Bromacil	96.1		P	80 - 120
Butylate	103		P	80 - 120
Caffeine	107		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A112025

Included Lab Sample IDs: 2322139, 2322141

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carbophenothion	89.8		P	80 - 120
Carfentrazone Ethyl	90.4		P	80 - 120
Chlorfenapyr	86.5		P	80 - 120
Chlorpyrifos Ethyl	93.3		P	80 - 120
Chlorpyrifos Methyl	85.2		P	80 - 120
Coumaphos	92.5		P	80 - 120
Cyanazine	91.1		P	80 - 120
Cyprodinil	96.8		P	80 - 120
Demeton	96.5		P	80 - 120
Diazinon	101		P	80 - 120
Difenoconazole	85.2		P	80 - 120
Dimethenamid	91.5		P	80 - 120
Dimethomorph	95.5		P	80 - 120
Disulfoton	97.9		P	80 - 120
Dithiopyr	100		P	80 - 120
EPTC	97.7		P	80 - 120
Ethion	86.4		P	80 - 120
Ethoprop	98.9		P	80 - 120
Etridiazole	102		P	80 - 120
Fenamiphos	98.7		P	80 - 120
Fenbuconazole	98.0		P	80 - 120
Fipronil	101		P	80 - 120
Fipronil Desulfinyl	97.2		P	80 - 120
Fipronil Sulfide	116		P	80 - 120
Fipronil Sulfone	88.3		P	80 - 120
Fluazifop-P-butyl	100		P	80 - 120
Fludioxonil	90.5		P	80 - 120
Flumioxazin	109		P	80 - 120
Flutolanil	102		P	80 - 120
Fluxapyroxad	91.4		P	80 - 120
Fonofos	109		P	80 - 120
Hexazinone	100		P	80 - 120
Imazalil	88.9		P	80 - 120
Iprodione	93.4		P	80 - 120
Loratadine	112		P	80 - 120
Malathion	90.0		P	80 - 120
Metalaxyl	94.7		P	80 - 120
Metolachlor	102		P	80 - 120
Metribuzin	103		P	80 - 120
Mevinphos	98.2		P	80 - 120
Molinate	106		P	80 - 120
Myclobutanil	106		P	80 - 120
Naled	97.6		P	80 - 120
Napropamide	97.3		P	80 - 120
Norflurazon	93.8		P	80 - 120
Oxadiazon	98.8		P	80 - 120
Oxyfluorfen	90.1		P	80 - 120
Parathion Ethyl	105		P	80 - 120
Parathion Methyl	98.6		P	80 - 120
Pendimethalin	104		P	80 - 120
Phenytol	93.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A112025

Included Lab Sample IDs: 2322139, 2322141

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Phorate	101		P	80 - 120
Prodiamine	90.1		P	80 - 120
Prometon	91.1		P	80 - 120
Prometryn	98.7		P	80 - 120
Pronamide	103		P	80 - 120
Propanil	103		P	80 - 120
Propargite	99.4		P	80 - 120
Propiconazole	88.1		P	80 - 120
Pyraflufen Ethyl	98.1		P	80 - 120
Pyridaben	94.4		P	80 - 120
Pyriproxyfen	105		P	80 - 120
Simazine	88.9		P	80 - 120
Stirophos	88.4		P	80 - 120
Sulfentrazone	91.3		P	80 - 120
Tebuconazole	98.9		P	80 - 120
Terbufos	95.9		P	80 - 120
Terbuthylazine	103		P	80 - 120
Thiobencarb	109		P	80 - 120
Triadimefon	98.2		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A112052

Included Lab Sample IDs: 2322104, 2322110, 2322121

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	105	P/P	90 - 110
Kjeldahl Nitrogen	105	91.5	P/P	90 - 110
Kjeldahl Nitrogen	91.5	95.3	P/P	90 - 110

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision SMP	MS
			LCS				
DEP SOP: NU-094-1	Color (true)	98.6				1.42	
	Color (true)	99.3				2.27	
	Color (true)	100				0.156	
EPA 180.1 Rev. 2.0	Turbidity	95.1				1.18	
EPA 200.7 Rev. 4.4	Calcium	100	98.4	97.9			0.761
	Iron	104	101	105	102		3.50
	Magnesium	103	101	105	102		2.30
	Potassium	103	102	104	108		1.09
	Sodium	101	100	103	101		2.23
	Strontium	101	102	104	101		1.44
	Tin	102	102	104	101		1.56
	Titanium	102	94.7	93.8	94.6		0.814
	Vanadium	95.9	97.5	99.5	97.8		2.06
	Zinc	101	101	103	102		1.64
EPA 200.8 Rev. 5.4	Aluminum	98.1	96.6	97.2	97.0		0.571
	Antimony	97.3	95.4	99.3	100		3.99
	Arsenic	98.9	98.6	101	99.2		2.34
	Barium	104	106	107	106		0.901
	Beryllium	91.3	94.9	93.1	91.2		1.88
	Boron	103	103	107	110		3.54
	Cadmium	98.6	99.5	103	103		3.19
	Chromium	98.5	99.8	102	101		1.75
	Cobalt	98.9	100	103	99.0		2.59
	Copper	94.7	98.4	100	96.4		1.72
	Lead	96.5	97.8	98.6	98.7		0.766
	Manganese	99.4	99.1	104	103		2.27
	Molybdenum	96.1	95.3	98.2	98.4		2.95
	Nickel	97.7	100	103	98.7		2.49
	Selenium	96.3	96.0	98.1	94.6		2.14
	Silver	99.5	99.5	101	101		1.69
	Thallium	97.5	101	103	101		1.47
EPA 300.0 Rev. 2.1	Chloride	100	99.6	97.9		0.952	
	Chloride	98.0	97.3	98.2		0.501	
	Sulfate	99.7	96.7	93.0		0.846	
	Sulfate	97.6	96.2	97.3			
EPA 350.1 Rev. 2.0	Ammonia-N	96.4	104	106			0.919
	Ammonia-N	99.4	100	100			0.130
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	100	101	99.4			1.15
	Kjeldahl Nitrogen	95.8	98.5	105			5.20
	Kjeldahl Nitrogen	98.8					13.7
	Kjeldahl Nitrogen	100	105	106			1.15
	Kjeldahl Nitrogen	103	104	101			2.36
EPA 353.2 Rev. 2.0	NO2NO3-N	95.0	91.2				0.199
EPA 365.1 Rev. 2.0	Total-P	99.5	101	104			2.59
	Total-P	99.7	99.5	99.8			0.294
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	102	98.3	99.2			0.490
	O-Phosphate-P	101	97.4	98.2			0.818
EPA 8270E	Acetochlor	117	98.4	92.8			5.91
	Alachlor	100	88.9	81.6			8.54
	Aldrin	52.3	46.0	51.5			11.2
	Alpha-BHC	86.6	74.5	79.1			5.91
	Alpha-Chlordane	90.4	69.1	73.1			5.70
	Ametryn	137	66.7	63.8			4.42
	Atrazine	116					11.4

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Atrazine Desethyl	97.6	62.7	63.2			0.699
	Azinphos Methyl	111	107	95.0			12.0
	Azoxystrobin	112	120	118			1.48
	Beta-BHC	107	87.0	93.4			7.02
	Beta-Cyfluthrin	99.5	91.9	96.5			4.89
	Bifenthrin	85.7	74.1	70.3			5.19
	Bromacil	110	81.3	86.3			5.88
	Butylate	63.3	59.5	54.7			8.45
	Caffeine	93.3	87.6	81.2			7.50
	Carbophenothion	118	90.2	82.7			8.75
	Carfentrazone Ethyl	126	93.1	80.8			14.2
	Chlorfenapyr	97.2	83.2	76.9			7.86
	Chlorothalonil	106	115	116			1.18
	Chlorpyrifos Ethyl	99.3	95.8	88.3			8.06
	Chlorpyrifos Methyl	93.5	102	91.0			11.0
	Cis-Nonachlor	78.8	66.8	61.2			8.83
	Coumaphos	111	85.0	81.9			3.67
	Cyanazine	95.0	77.5	67.4			13.9
	Cypermethrin	92.0	85.8	92.2			7.12
	Cyprodinil	112	96.7	81.2			17.4
	Dacthal	85.8	71.8	82.4			13.6
	DDD-p,p'	76.8	66.3	68.0			2.43
	DDE-p,p'	80.0	64.0	69.0			7.53
	DDT-p,p'	86.2	63.0	72.6			14.2
	Delta-BHC	95.0	87.8	94.9			7.76
	Deltamethrin	96.0	98.4	97.2			1.22
	Demeton	71.0	88.0	81.0			8.22
	Diazinon	107	98.1	90.0			8.58
	Dichlobenil	73.6	86.4	94.1			8.48
	Dicofol	74.3	61.1	63.6			4.04
	Dieldrin	85.3					12.2
	Difenoconazole	127	103	104			1.61
	Dimethenamid	106	85.7	74.8			13.5
	Dimethomorph	104	134	128			4.08
	Disulfoton	97.3	83.7	82.7			1.19
	Dithiopyr	112	101	91.2			10.0
	Endosulfan I	79.6	64.8	73.7			12.9
	Endosulfan II	72.9	62.7	71.6			13.2
	Endosulfan Sulfate	89.1	72.5	88.4			19.7
	Endrin	74.6	65.1	70.0			7.21
	Endrin Aldehyde	73.8	60.1	53.1			12.3
	Endrin Ketone	84.7	72.6	81.4			11.4
	EPTC	53.8	39.3	36.7			6.75
	Esfenvalerate	89.0	89.4	90.9			1.72
	Ethalfuralin	73.3	68.9	60.8			12.5
	Ethion	113	61.8	55.9			10.0
	Ethoprop	106	91.3	85.7			6.28
	Etridiazole	47.9	61.1	52.5			15.2
	Fenamiphos	117	72.1	76.0			5.22
	Fenbuconazole	115	88.9	75.9			15.7
	Fenpropathrin	92.6	98.6	87.0			12.5
	Fipronil	113	96.5	84.4			13.4
	Fipronil Desulfinyl	117	95.3	88.1			7.87
	Fipronil Sulfide	130	97.2	84.7			13.7

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Fipronil Sulfone	109	92.4	82.5			10.1
	Fluazifop-P-butyl	120	108	95.7			12.5
	Fludioxonil	118	96.1	83.9			13.6
	Flumioxazin	123	133	128			4.25
	Flutolanil	120	73.6	69.3			5.74
	Fluxapyroxad	118	82.0	69.8			16.1
	Fonofos	97.6	98.9	90.3			9.14
	Gamma-BHC	89.2	78.5	77.3			1.49
	Gamma-Chlordane	74.7	64.6	70.0			7.99
	Heptachlor	68.3	55.3	61.4			10.4
	Heptachlor Epoxide	80.4	57.3	67.1			10.3
	Hexachlorobenzene	78.8	72.4	74.0			2.27
	Hexazinone	120	96.7	89.0			8.38
	Imazalil	89.0	252	213			16.9
	Iprodione	123	84.8	79.6			6.27
	Kepone	47.9	51.1	49.4			3.56
	Lambda-Cyhalothrin	87.4	82.4	85.0			3.13
	Loratadine	111	119	121			1.50
	Malathion	112	87.1	85.3			2.09
	Metalaxyl	107	95.5	82.7			14.4
	Methoprene	74.4	59.8	63.2			5.55
	Methoxychlor	85.5	67.9	79.8			16.1
	Metolachlor	107	89.6	79.5			11.9
	Metribuzin	97.6	81.5	77.7			4.84
	Mevinphos	99.6	93.7	89.3			4.81
	MGK-264	68.4	60.1	71.0			16.6
	Mirex	71.4	60.2	62.3			3.35
	Molinate	82.1	69.1	68.3			1.19
	Myclobutanil	109	82.1	79.3			3.48
	Naled	76.4	101	90.0			11.9
	Napropamide	118	83.3	75.2			10.3
	Norflurazon	111	75.5	70.6			6.64
	Oxadiazon	97.7	60.5	53.4			8.64
	Oxychlordane	71.9	59.8	66.2			10.2
	Oxyfluorfen	112	109	98.7			9.69
	Parathion Ethyl	106	97.0	81.1			17.9
	Parathion Methyl	114	100	93.1			7.26
	Pendimethalin	77.6	102	87.4			15.6
	Permethrin	99.9	91.7	89.1			2.90
	Phenothrin	77.9	71.3	69.8			2.20
	Phenytain	83.5	43.1	32.7			27.4
	Phorate	72.6	95.2	83.5			13.1
	Piperonyl Butoxide	88.2	84.1	101			18.2
	Prallethrin	61.5	53.9	59.4			9.80
	Prodiamine	84.9	54.8	51.5			6.29
	Prometon	87.4	75.9	69.6			8.69
	Prometryn	107	84.0	73.7			13.1
	Pronamide	107	97.1	86.2			11.9
	Propanil	141	116	109			6.70
	Propargite	101	43.6	41.3			5.34
	Propiconazole	117	82.7	70.3			16.2
	Pyraflufen Ethyl	104	71.9	65.3			9.74
	Pyridaben	107	86.7	77.4			11.3
	Pyriproxyfen	103	75.3	65.4			14.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Simazine	95.5	85.5	78.4			8.75
	Stirophos	110	61.8	55.7			10.4
	Sulfentrazone	117	92.6	71.3			15.3
	Tau-Fluvalinate	87.3	87.4	85.3			2.44
	Tebuconazole	105	38.3	34.2			11.3
	Terbufos	95.4	110	104			5.41
	Terbuthylazine	108	94.6	87.7			7.60
	Tetramethrin	86.4	81.6	101			20.8
	Thiobencarb	94.3	79.1	72.5			8.78
	Trans-Nonachlor	76.9	58.8	66.6			12.4
	Triadimefon	106	104	103			1.26
	Triclosan Methyl	90.1	65.5	79.6			19.4
	Trifluralin	78.5	66.5	69.6			4.57
	Chlordane	72.9	69.2	78.5			12.5
EPA 8276	Toxaphene	66.5	67.2	69.1			2.82
EPA 8321B	2,4-D	70.4	78.8	69.2			9.47
	2,4,5-T	65.2	93.2	92.0			1.30
	3-Hydroxycarbofuran	62.6	57.4	53.3			7.49
	Acesulfame K	99.2	95.6	96.3			0.663
	Acetaminophen	86.4	127	125			1.95
	Acetamiprid	68.5	40.8	38.6			5.51
	Afidopyropen	45.9	44.2	44.3			0.375
	Aldicarb	53.7	46.1	39.9			14.4
	Aldicarb Sulfone	94.0	83.9	85.2			1.59
	Aldicarb Sulfoxide	94.1	47.2	47.0			0.269
	AMPA	110	106	102			4.34
	Bentazon	77.9	40.4	47.2			9.58
	Benzovindiflupyr	70.4	58.7	57.7			1.69
	Carbamazepine	62.7	44.2	43.0			2.77
	Carbaryl	56.2	51.8	50.6			2.31
	Carbofuran	61.9	54.2	55.9			3.05
	Clothianidin	76.3	41.5	41.7			0.436
	Dinotefuran	102	104	105			0.497
	Diuron	74.9	50.5	49.2			1.61
	Endothall	96.3	96.2	95.1			1.10
	Fenuron	89.4	58.5	57.9			1.11
	Fluridone	68.7	72.4	70.5			2.62
	Glufosinate	109	112	93.5			18.3
	Glyphosate	98.2	83.0	79.7			4.13
	Hydrocodone	90.7	52.4	52.5			0.237
	Ibuprofen	66.1	54.9	55.4			0.822
	Imazapyr	78.3	74.5	69.8			5.94
	Imidacloprid	65.2	51.4	53.5			3.86
	Linuron	65.1	51.5	53.5			3.80
	Mandestrobin	64.5	58.9	59.5			1.00
	MCPP	83.0	118	118			0.359
	Methiocarb	60.4	45.6	47.5			4.12
	Methomyl	87.6	58.6	56.5			3.65
	Naproxen	47.6	51.5	49.8			3.34
	Oxamyl	92.8	70.9	68.5			3.47
	Primidone	79.5	64.5	65.9			2.12
	Propoxur	62.4	50.3	51.5			2.54
	Pyraclostrobin	62.4	67.9	66.0			2.93
	Silvex	75.2	96.7	116			18.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Sucralose	94.0	97.2	95.8		1.43
	Thiamethoxam	76.9	48.9	48.7		0.261
	Tolfenpyrad	30.4	37.6	36.5		3.03
	Triclopyr	68.9	86.4	89.6		3.61
SM 2320 B-2011	Total Alkalinity	97.3			1.68	
	Total Alkalinity	95.6			1.05	
SM 2540 C-2011	TDS				3.66	
	TDS				4.08	
	TDS				4.16	
SM 2540 D-2011	TSS				7.41	
SM 4500-F- C-2011	Fluoride	100	99.0	99.0		0.0
	Fluoride	100	101	100		0.498
SM 5310 B-2011	Organic Carbon	98.4	99.8	99.7		0.0740

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2322103, 2322105, 2322106, 2322107, 2322108, 2322109, 2322120
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2322103, 2322105, 2322106, 2322107, 2322108, 2322109, 2322120
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2322142, 2322143, 2322144, 2322145, 2322146, 2322147, 2322148
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2322142, 2322143, 2322144, 2322145, 2322146, 2322147, 2322148
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2322103, 2322120
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2322103, 2322105, 2322106, 2322107, 2322108, 2322109, 2322120
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2322104, 2322110, 2322111, 2322112, 2322113, 2322114, 2322121
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2322104, 2322110, 2322111, 2322112, 2322113, 2322114, 2322121
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2322104, 2322110, 2322111, 2322112, 2322113, 2322114, 2322121
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2322104, 2322110, 2322111, 2322112, 2322113, 2322114, 2322121
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2322115, 2322116, 2322117, 2322118, 2322119
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2322138, 2322140
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2322139, 2322141
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2322138, 2322140
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2322134, 2322136
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2322135, 2322137
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2322103, 2322105, 2322106, 2322107, 2322108, 2322109, 2322120
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2322142, 2322143, 2322144, 2322145, 2322146, 2322147, 2322148
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2322103, 2322105, 2322106, 2322107, 2322108, 2322109, 2322120
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2322103, 2322105, 2322106, 2322107, 2322108, 2322109, 2322120
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2322103, 2322105, 2322106, 2322107, 2322108, 2322109, 2322120
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2322104, 2322110, 2322111, 2322112, 2322113, 2322114, 2322121

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	04/26/2022			04/26/2022 16:28	Anna M. Plaviak	2322103
	04/26/2022			04/26/2022 16:30	Anna M. Plaviak	2322106
	04/26/2022			04/26/2022 16:31	Anna M. Plaviak	2322108
	04/26/2022			04/26/2022 16:33	Anna M. Plaviak	2322120
	04/26/2022			04/26/2022 16:37	Anna M. Plaviak	2322109
	04/26/2022			04/26/2022 16:44	Anna M. Plaviak	2322105, 2322107
	04/26/2022			04/26/2022 15:02	Khloe J Berg	2322103
EPA 180.1 Rev. 2.0	04/26/2022			04/26/2022 15:03	Khloe J Berg	2322105
	04/26/2022			04/26/2022 15:05	Khloe J Berg	2322106
	04/26/2022			04/26/2022 15:06	Khloe J Berg	2322107
	04/26/2022			04/26/2022 15:08	Khloe J Berg	2322108
	04/26/2022			04/26/2022 15:10	Khloe J Berg	2322109
	04/26/2022			04/26/2022 15:11	Khloe J Berg	2322120
	04/26/2022	04/28/2022 10:10	Megan Whitefoot	05/03/2022 12:57	Josef B Mick	2322148
EPA 200.7 Rev. 4.4	04/26/2022	04/28/2022 10:10	Megan Whitefoot	05/03/2022 14:45	Josef B Mick	2322142
	04/26/2022	04/28/2022 10:10	Megan Whitefoot	05/03/2022 14:53	Josef B Mick	2322143
	04/26/2022	04/28/2022 10:10	Megan Whitefoot	05/03/2022 15:00	Josef B Mick	2322144
	04/26/2022	04/28/2022 10:10	Megan Whitefoot	05/03/2022 15:48	Josef B Mick	2322145
	04/26/2022	04/28/2022 10:10	Megan Whitefoot	05/03/2022 16:15	Josef B Mick	2322146
	04/26/2022	04/28/2022 10:10	Megan Whitefoot	05/03/2022 16:34	Josef B Mick	2322147
	04/26/2022	04/28/2022 10:10	Megan Whitefoot	05/04/2022 18:22	Josef B Mick	2322145
EPA 200.8 Rev. 5.4	04/26/2022	04/28/2022 10:10	Megan Whitefoot	05/02/2022 16:38	Emily M Philpot	2322148
	04/26/2022	04/28/2022 10:10	Megan Whitefoot	05/02/2022 17:23	Emily M Philpot	2322145
	04/26/2022	04/28/2022 10:10	Megan Whitefoot	05/02/2022 18:53	Emily M Philpot	2322142
	04/26/2022	04/28/2022 10:10	Megan Whitefoot	05/02/2022 19:02	Emily M Philpot	2322143
	04/26/2022	04/28/2022 10:10	Megan Whitefoot	05/02/2022 19:11	Emily M Philpot	2322144
	04/26/2022	04/28/2022 10:10	Megan Whitefoot	05/02/2022 19:20	Emily M Philpot	2322147
	04/26/2022	04/28/2022 10:10	Megan Whitefoot	05/02/2022 19:29	Emily M Philpot	2322146
	04/26/2022	04/28/2022 10:10	Megan Whitefoot	05/03/2022 16:51	Emily M Philpot	2322145
	04/26/2022	05/05/2022 10:00	Megan Whitefoot	05/05/2022 14:58	Emily M Philpot	2322148
	04/26/2022	05/05/2022 10:00	Megan Whitefoot	05/05/2022 16:20	Emily M Philpot	2322142
	04/26/2022	05/05/2022 10:00	Megan Whitefoot	05/05/2022 16:26	Emily M Philpot	2322143
	04/26/2022	05/05/2022 10:00	Megan Whitefoot	05/05/2022 16:32	Emily M Philpot	2322144
	04/26/2022	05/05/2022 10:00	Megan Whitefoot	05/05/2022 16:37	Emily M Philpot	2322145
	04/26/2022	05/05/2022 10:00	Megan Whitefoot	05/05/2022 16:43	Emily M Philpot	2322146
	04/26/2022	05/05/2022 10:00	Megan Whitefoot	05/05/2022 17:19	Emily M Philpot	2322147
EPA 300.0 Rev. 2.1	04/26/2022			04/30/2022 02:34	James L Waggeberby	2322103
	04/26/2022			04/30/2022 02:46	James L Waggeberby	2322105
	04/26/2022			04/30/2022 02:59	James L Waggeberby	2322106
	04/26/2022			04/30/2022 03:10	James L Waggeberby	2322107

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 300.0 Rev. 2.1	04/26/2022			05/02/2022 20:13	James L Waggeberby	2322108
	04/26/2022			05/02/2022 20:25	James L Waggeberby	2322109
	04/26/2022			05/02/2022 20:37	James L Waggeberby	2322120
EPA 350.1 Rev. 2.0	04/26/2022			04/29/2022 10:26	Judith K. Clark	2322104
	04/26/2022			04/29/2022 10:27	Judith K. Clark	2322110
	04/26/2022			04/29/2022 10:29	Judith K. Clark	2322111
	04/26/2022			05/03/2022 11:44	Ping Hua	2322112
	04/26/2022			05/03/2022 11:50	Ping Hua	2322113
	04/26/2022			05/03/2022 11:52	Ping Hua	2322114
	04/26/2022			05/03/2022 11:57	Ping Hua	2322121
	04/26/2022			05/03/2022 11:57	Ping Hua	2322121
EPA 351.2 Rev. 2.0	04/26/2022	04/27/2022 17:18	Alexandra J Mattheus	04/28/2022 14:50	Alexandra J Mattheus	2322111
	04/26/2022	05/04/2022 15:46	Alexandra J Mattheus	05/10/2022 12:33	Alexandra J Mattheus	2322110
	04/26/2022	05/04/2022 15:46	Alexandra J Mattheus	05/10/2022 12:41	Alexandra J Mattheus	2322121
	04/26/2022	05/06/2022 09:53	Samantha L Bates	05/09/2022 16:21	Samantha L Bates	2322112
	04/26/2022	05/06/2022 09:53	Samantha L Bates	05/09/2022 16:22	Samantha L Bates	2322113
	04/26/2022	05/06/2022 09:53	Samantha L Bates	05/09/2022 16:58	Samantha L Bates	2322114
	04/26/2022	05/09/2022 16:29	Alexandra J Mattheus	05/10/2022 13:04	Alexandra J Mattheus	2322104
EPA 353.2 Rev. 2.0	04/26/2022			05/02/2022 10:13	Beverly Y. Sanders	2322111
	04/26/2022			05/02/2022 10:14	Beverly Y. Sanders	2322112
	04/26/2022			05/02/2022 10:15	Beverly Y. Sanders	2322113
	04/26/2022			05/02/2022 10:17	Beverly Y. Sanders	2322114
	04/26/2022			05/02/2022 10:18	Beverly Y. Sanders	2322121
	04/26/2022			05/02/2022 11:08	Beverly Y. Sanders	2322104
	04/26/2022			05/02/2022 11:10	Beverly Y. Sanders	2322110
EPA 365.1 Rev. 2.0	04/26/2022	04/29/2022 13:00	Simonne.V. Calhoun	05/03/2022 11:15	Sarah A Nixon	2322110
	04/26/2022	04/29/2022 13:00	Simonne.V. Calhoun	05/03/2022 15:22	James L Waggeberby	2322104
	04/26/2022	04/29/2022 13:00	Simonne.V. Calhoun	05/03/2022 15:23	James L Waggeberby	2322111
	04/26/2022	05/03/2022 16:15	Simonne.V. Calhoun	05/04/2022 13:45	Sarah A Nixon	2322112
	04/26/2022	05/03/2022 16:15	Simonne.V. Calhoun	05/04/2022 13:46	Sarah A Nixon	2322113
	04/26/2022	05/03/2022 16:15	Simonne.V. Calhoun	05/04/2022 13:49	Sarah A Nixon	2322114
	04/26/2022	05/03/2022 16:15	Simonne.V. Calhoun	05/05/2022 14:41	James L Waggeberby	2322121
	04/26/2022			04/26/2022 15:45	Nathaniel J Jones	2322118
EPA 365.1 Rev. 2.0 dissolved	04/26/2022			04/26/2022 15:53	Nathaniel J Jones	2322119
	04/26/2022			04/26/2022 16:08	Nathaniel J Jones	2322115
	04/26/2022			04/26/2022 16:09	Nathaniel J Jones	2322116
	04/26/2022			04/26/2022 16:10	Nathaniel J Jones	2322117
	04/26/2022			04/26/2022 16:10	Nathaniel J Jones	2322117
EPA 8270E	04/26/2022	04/28/2022 08:00	Rasheda Ghaffari	05/03/2022 19:40	Vandana T. Nagar	2322139
	04/26/2022	04/28/2022 08:00	Rasheda Ghaffari	05/03/2022 20:06	Vandana T. Nagar	2322141
	04/26/2022	04/29/2022 08:00	Fe-Val Siddell	05/03/2022 23:41	Michael Poppell	2322138
	04/26/2022	04/29/2022 08:00	Fe-Val Siddell	05/04/2022 00:11	Michael Poppell	2322140

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8276	04/26/2022	04/29/2022 08:00	Fe-Val Siddell	05/03/2022 07:58	Julie Wi	2322138
	04/26/2022	04/29/2022 08:00	Fe-Val Siddell	05/03/2022 08:54	Julie Wi	2322140
EPA 8321B	04/26/2022	04/27/2022 11:00	Manjita Shrestha	04/27/2022 18:11	Manjita Shrestha	2322135
	04/26/2022	04/27/2022 11:00	Manjita Shrestha	04/27/2022 18:24	Manjita Shrestha	2322137
	04/26/2022	04/27/2022 11:00	Manjita Shrestha	04/28/2022 11:05	Manjita Shrestha	2322135
	04/26/2022	04/27/2022 11:00	Manjita Shrestha	04/28/2022 11:20	Manjita Shrestha	2322137
	04/26/2022	04/28/2022 09:00	Hoor Shaik	04/28/2022 19:39	Juyoung Kim	2322135
	04/26/2022	04/28/2022 09:00	Hoor Shaik	04/28/2022 19:57	Juyoung Kim	2322137
	04/26/2022	05/03/2022 09:15	June Rhew	05/05/2022 16:48	Juyoung Kim	2322134
	04/26/2022	05/03/2022 09:15	June Rhew	05/05/2022 17:06	Juyoung Kim	2322136
	04/26/2022	05/03/2022 09:15	June Rhew	05/06/2022 12:19	Juyoung Kim	2322134
	04/26/2022			05/04/2022 06:24	Dale L. Simmons	2322103
SM 2320 B-2011	04/26/2022			05/04/2022 06:35	Dale L. Simmons	2322105
	04/26/2022			05/04/2022 06:47	Dale L. Simmons	2322106
	04/26/2022			05/04/2022 06:58	Dale L. Simmons	2322107
	04/26/2022			05/04/2022 09:01	Dale L. Simmons	2322108
	04/26/2022			05/04/2022 09:10	Dale L. Simmons	2322109
	04/26/2022			05/04/2022 09:18	Dale L. Simmons	2322120
	04/26/2022			05/03/2022 12:57	Josef B Mick	2322148
SM 2340 B-2011	04/26/2022			05/03/2022 14:45	Josef B Mick	2322142
	04/26/2022			05/03/2022 14:53	Josef B Mick	2322143
	04/26/2022			05/03/2022 15:00	Josef B Mick	2322144
	04/26/2022			05/03/2022 15:48	Josef B Mick	2322145
	04/26/2022			05/03/2022 16:15	Josef B Mick	2322146
	04/26/2022			05/03/2022 16:34	Josef B Mick	2322147
	04/26/2022			04/29/2022 15:42	Yijie Li	2322103, 2322105, 2322106, 2322107, 2322108, 2322109, 2322120
SM 2540 C-2011	04/26/2022			04/29/2022 15:42	Yijie Li	2322103, 2322105, 2322106, 2322107, 2322108, 2322109, 2322120
SM 2540 D-2011	04/26/2022			04/29/2022 15:42	Yijie Li	2322103, 2322105, 2322106, 2322107, 2322108, 2322109, 2322120
SM 4500-F- C-2011	04/26/2022			05/04/2022 06:24	Dale L. Simmons	2322103
	04/26/2022			05/04/2022 06:35	Dale L. Simmons	2322105
	04/26/2022			05/04/2022 06:47	Dale L. Simmons	2322106
	04/26/2022			05/04/2022 06:58	Dale L. Simmons	2322107
	04/26/2022			05/04/2022 09:01	Dale L. Simmons	2322108
	04/26/2022			05/04/2022 09:10	Dale L. Simmons	2322109
	04/26/2022			05/04/2022 09:18	Dale L. Simmons	2322120
SM 5310 B-2011	04/26/2022			05/03/2022 00:32	Khloe J Berg	2322104
	04/26/2022			05/03/2022 00:48	Khloe J Berg	2322110
	04/26/2022			05/03/2022 01:03	Khloe J Berg	2322111
	04/26/2022			05/03/2022 01:19	Khloe J Berg	2322112

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 5310 B-2011	04/26/2022			05/03/2022 01:32	Khloe J Berg	2322113
	04/26/2022			05/03/2022 01:48	Khloe J Berg	2322114
	04/26/2022			05/03/2022 02:03	Khloe J Berg	2322121