

Chemical Analysis Report

TLH-ROC-2022-06-27-01

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-2022-06-20-25**
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: 22-JUL-2022 15:08



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: Tributary South Mosquito Creek

Collection Date/Time: 06/27/2022 10:10

Field ID: G2TLHR0008

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2337330	DEP SOP: NU-094-1	Color (true)	19		PCU	P415909	
	EPA 180.1 Rev. 2.0	Turbidity	4.4		NTU	P415901	
	EPA 300.0 Rev. 2.1	Sulfate	0.86		mg SO4/L	P416151	
	SM 2320 B-2011	Total Alkalinity	90		mg CaCO3/L	P416070	
	SM 2540 C-2011	TDS	115		mg/L	P416223	
	SM 2540 D-2011	TSS	6	I	mg/L	P416190	
	SM 4500-F- C-2011	Fluoride	0.11		mg F/L	P416338	
2337335	EPA 350.1 Rev. 2.0	Ammonia-N	0.012		mg N/L	P415992	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.17	I	mg N/L	P415921	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.52		mg N/L	P416403	
	EPA 365.1 Rev. 2.0	Total-P	0.026		mg P/L	P416023	
	SM 5310 B-2011	Organic Carbon	2.0		mg C/L	P416028	
2337362	EPA 200.7 Rev. 4.4	Calcium	25.0		mg/L	P415841	
		Iron	470		ug/L	P415841	
		Magnesium	9.08		mg/L	P415841	
		Potassium	1.2		mg/L	P415841	
		Sodium	2.8		mg/L	P415841	
		Strontium	28.5		ug/L	P415841	
		Tin	3.0	U	ug/L	P415841	
	EPA 200.8 Rev. 5.4	Titanium	5.9		ug/L	P415841	
		Vanadium	2.0	U	ug/L	P415841	
		Zinc	5.0	U	ug/L	P415841	
		Aluminum	199		ug/L	P415841	
		Antimony	0.050	U	ug/L	P415841	
		Arsenic	0.41		ug/L	P415841	
		Barium	23.5		ug/L	P415841	
		Beryllium	0.019	I	ug/L	P415841	
		Boron	13.6		ug/L	P415841	
		Cadmium	0.020	U	ug/L	P415841	
		Chromium	0.55	I	ug/L	P415841	
		Cobalt	0.152		ug/L	P415841	
		Copper	0.40	U	ug/L	P415841	
		Lead	0.20	U	ug/L	P415841	
		Manganese	32.4		ug/L	P415841	
		Molybdenum	0.35	I	ug/L	P415841	
		Nickel	0.50	U	ug/L	P415841	
		Selenium	0.20	U	ug/L	P415841	
		Silver	0.010	U	ug/L	P415841	
		Thallium	0.10	U	ug/L	P415841	
	SM 2340 B-2011	Hardness	99.9		mg/L	P415841	

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: South Mosquito Creek @ Power Line

Collection Date/Time: 06/27/2022 10:25

Field ID: G2TLHR0039

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2337331	DEP SOP: NU-094-1	Color (true)	41		PCU	P415909	
	EPA 180.1 Rev. 2.0	Turbidity	13		NTU	P415901	
	EPA 300.0 Rev. 2.1	Sulfate	0.53		mg SO4/L	P416151	
	SM 2320 B-2011	Total Alkalinity	16		mg CaCO3/L	P416070	
	SM 2540 C-2011	TDS	46		mg/L	P416223	
	SM 2540 D-2011	TSS	18		mg/L	P416190	
	SM 4500-F- C-2011	Fluoride	0.059	I	mg F/L	P416338	
2337336	EPA 350.1 Rev. 2.0	Ammonia-N	0.018		mg N/L	P415992	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.32		mg N/L	P415921	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.55		mg N/L	P416403	
	EPA 365.1 Rev. 2.0	Total-P	0.061		mg P/L	P416023	
	SM 5310 B-2011	Organic Carbon	3.4		mg C/L	P416028	
2337363	EPA 200.7 Rev. 4.4	Calcium	4.87		mg/L	P415841	
		Iron	790		ug/L	P415841	
		Magnesium	2.29		mg/L	P415841	
		Potassium	0.60	I	mg/L	P415841	
		Sodium	2.3		mg/L	P415841	
		Strontium	14.1		ug/L	P415841	
		Tin	3.0	U	ug/L	P415841	
	EPA 200.8 Rev. 5.4	Titanium	13.2		ug/L	P415841	
		Vanadium	2.0	U	ug/L	P415841	
		Zinc	5.0	U	ug/L	P415841	
		Aluminum	470		ug/L	P415841	
		Antimony	0.050	U	ug/L	P415841	
		Arsenic	0.55		ug/L	P415841	
		Barium	18.0		ug/L	P415841	
		Beryllium	0.031	I	ug/L	P415841	
		Boron	9.9		ug/L	P415841	
		Cadmium	0.020	U	ug/L	P415841	
		Chromium	0.71	I	ug/L	P415841	
		Cobalt	0.253		ug/L	P415841	
		Copper	0.40	U	ug/L	P415841	
		Lead	0.36	I	ug/L	P415841	
		Manganese	37.9		ug/L	P415841	
		Molybdenum	0.19	I	ug/L	P415841	
		Nickel	0.50	U	ug/L	P415841	
		Selenium	0.20	U	ug/L	P415841	
		Silver	0.010	U	ug/L	P415841	
		Thallium	0.10	U	ug/L	P415841	
	SM 2340 B-2011	Hardness	21.6		mg/L	P415841	

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: Mosquito Creek @ Jinks Crossing Rd

Collection Date/Time: 06/27/2022 10:40

Field ID: G2TLHR0092

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2337328	DEP SOP: NU-094-1	Color (true)	33		PCU	P415909	
	EPA 180.1 Rev. 2.0	Turbidity	3.8	A	NTU	P415901	
	EPA 300.0 Rev. 2.1	Chloride	6.1		mg Cl/L	P416148	
		Sulfate	0.65		mg SO4/L	P416151	
	SM 2320 B-2011	Total Alkalinity	25		mg CaCO3/L	P416070	
	SM 2540 C-2011	TDS	65		mg/L	P416223	
	SM 2540 D-2011	TSS	3	I	mg/L	P416190	
	SM 4500-F- C-2011	Fluoride	0.066	I	mg F/L	P416338	
2337329	EPA 350.1 Rev. 2.0	Ammonia-N	0.021		mg N/L	P415992	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.44		mg N/L	P416109	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.89		mg N/L	P416401	
	EPA 365.1 Rev. 2.0	Total-P	0.044		mg P/L	P416023	
	SM 5310 B-2011	Organic Carbon	3.8		mg C/L	P416028	
2337357	EPA 8321B	Aldicarb	0.020	U	ug/L	P415664	RPD
		Aldicarb Sulfone	0.0020	U	ug/L	P415664	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P415664	
		Carbaryl	0.0020	U	ug/L	P415664	
		Carbofuran	0.0020	U	ug/L	P415664	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P415664	
		Methiocarb	0.0020	U	ug/L	P415664	
		Methomyl	0.0020	U	ug/L	P415664	
		Oxamyl	0.0020	U	ug/L	P415664	
		Propoxur	0.0020	U	ug/L	P415664	
2337358		2,4-D	0.0020	U	ug/L	P415828	MS
		Acesulfame K	0.10	U	ug/L	P415853	
		AMPA	0.10	U	ug/L	P415853	
		2,4,5-T	0.0040	U	ug/L	P415828	
		Acetaminophen	0.0080	U	ug/L	P415828	
		Acetamiprid	0.0020	U	ug/L	P415828	
		Endothall	0.25	U	ug/L	P415853	
		Glufosinate	0.10	U	ug/L	P415853	
		Glyphosate	0.10	U	ug/L	P415853	
		Afidopyropen	0.0020	U	ug/L	P415828	
		Bentazon	0.015		ug/L	P415828	
		Sucralose	0.069		ug/L	P415853	
		Benzovindiflupyr	0.0089		ug/L	P415828	
		Carbamazepine	8.0E-04	U	ug/L	P415828	
		Clothianidin	0.0022	I	ug/L	P415828	
		Dinotefuran	0.32		ug/L	P415828	
		Diuron	0.0020	U	ug/L	P415828	
		Fenuron	0.032	U	ug/L	P415828	
		Fluridone	8.0E-04	U	ug/L	P415828	
		Imazapyr	0.011	I	ug/L	P415828	
		Hydrocodone	0.0020	U	ug/L	P415828	

Field ID: G2TLHR0092

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2337358	EPA 8321B	Ibuprofen	0.080	U	ug/L	P415828	
		Imidacloprid	0.014		ug/L	P415828	
		Linuron	0.0040	U	ug/L	P415828	
		Mandestrobin	0.0020	U	ug/L	P415828	
		MCP	0.0040	U	ug/L	P415828	
		Naproxen	0.0080	U	ug/L	P415828	
		Primidone	0.0040	U	ug/L	P415828	
		Pyraclostrobin	0.0020	U	ug/L	P415828	
		Silvex	0.0040	U	ug/L	P415828	
		Thiamethoxam	0.0020	U	ug/L	P415828	
		Tolfenpyrad	0.0020	U	ug/L	P415828	
		Triclopyr	0.0040	U	ug/L	P415828	
2337359	EPA 8270E	Aldrin	0.67	UQ	ng/L	P416473	
		Alpha-BHC	0.10	UQ	ng/L	P416473	
		Alpha-Chlordane	0.20	UQ	ng/L	P416473	
		Beta-BHC	0.10	UQ	ng/L	P416473	
		Beta-Cyfluthrin	1.3	UQ	ng/L	P416473	
		Bifenthrin	0.51	UQ	ng/L	P416473	
		Chlorothalonil	1.3	UQ	ng/L	P416473	
		Cis-Nonachlor	0.20	UQ	ng/L	P416473	
		Cypermethrin	1.5	UQ	ng/L	P416473	
		Dacthal	0.15	UQ	ng/L	P416473	
		DDD-p,p'	0.26	UQ	ng/L	P416473	
		DDE-p,p'	0.20	UQ	ng/L	P416473	
		DDT-p,p'	0.26	UQ	ng/L	P416473	
		Delta-BHC	0.46	IQ	ng/L	P416473	
		Deltamethrin	1.3	UQ	ng/L	P416473	
		Dichlobenil	0.26	UQ	ng/L	P416473	
		Dicofol	1.3	UQ	ng/L	P416473	
		Dieldrin	0.41	UQ	ng/L	P416473	
		Endosulfan I	0.41	UQ	ng/L	P416473	
		Endosulfan II	0.41	UQ	ng/L	P416473	
		Endosulfan Sulfate	0.31	UQ	ng/L	P416473	
		Endrin	0.41	UQ	ng/L	P416473	
		Endrin Aldehyde	0.77	UQ	ng/L	P416473	
		Endrin Ketone	0.41	UQ	ng/L	P416473	
		Esfenvalerate	0.77	UQ	ng/L	P416473	
		Ethalfuralin	0.15	UQ	ng/L	P416473	
		Fenpropathrin	0.26	UQ	ng/L	P416473	
		Gamma-BHC	0.13	UQ	ng/L	P416473	
		Gamma-Chlordane	0.20	UQ	ng/L	P416473	
		Heptachlor	0.20	UQ	ng/L	P416473	
		Heptachlor Epoxide	0.26	UQ	ng/L	P416473	
		Hexachlorobenzene**	1.0	UQ	ng/L	P416473	
		Kepone	5.1	UQ	ng/L	P416473	

Field ID: G2TLHR0092

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2337359	EPA 8270E	Lambda-Cyhalothrin	0.77	UQ	ng/L	P416473	
		Methoprene	0.77	UQ	ng/L	P416473	
		Methoxychlor	0.31	UQ	ng/L	P416473	
		MGK-264	0.20	UQ	ng/L	P416473	
		Mirex	0.36	UQ	ng/L	P416473	
		Oxychlordane	0.31	UQ	ng/L	P416473	
		Permethrin	1.6	UQ	ng/L	P416473	
		Phenothrin	0.92	UQ	ng/L	P416473	
		Piperonyl Butoxide	0.15	UQ	ng/L	P416473	
		Prallethrin	2.0	UQ	ng/L	P416473	
		Tau-Fluvalinate	0.26	UQ	ng/L	P416473	
		Tetramethrin	0.77	UQ	ng/L	P416473	
		Trans-Nonachlor	0.20	UQ	ng/L	P416473	
		Triclosan Methyl	0.15	UQ	ng/L	P416473	
		Trifluralin	0.20	UQ	ng/L	P416473	
		Chlordane	2.6	UQ	ng/L	P416473	
		Toxaphene	15	UQ	ng/L	P416473	
2337360	EPA 8270E	Acetochlor	0.87	I	ng/L	P415844	
		Alachlor	0.25	U	ng/L	P415844	
		Ametryn	0.61	U	ng/L	P415844	
		Atrazine	11		ng/L	P415844	
		Atrazine Desethyl	3.5	I	ng/L	P415844	
		Azinphos Methyl	2.0	U	ng/L	P415844	
		Azoxystrobin	4.5		ng/L	P415844	
		Bromacil	0.51	U	ng/L	P415844	
		Butylate	0.41	U	ng/L	P415844	
		Caffeine**	7.6	U	ng/L	P415844	
		Carbophenothion	0.20	U	ng/L	P415844	
		Carfentrazone Ethyl	0.10	U	ng/L	P415844	
		Chlorfenapyr	0.18	U	ng/L	P415844	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P415844	
		Chlorpyrifos Methyl	0.051	U	ng/L	P415844	
		Coumaphos	0.51	U	ng/L	P415844	
		Cyanazine	3.3	U	ng/L	P415844	
		Cyprodinil	0.45	I	ng/L	P415844	
		Demeton	1.5	U	ng/L	P415844	
		Diazinon	0.13	U	ng/L	P415844	
		Difenoconazole	0.64	I	ng/L	P415844	
		Dimethenamid	0.10	I	ng/L	P415844	
		Dimethomorph	0.18	U	ng/L	P415844	
		Disulfoton	0.51	U	ng/L	P415844	
		Dithiopyr	0.18	U	ng/L	P415844	
		EPTC	1.3	U	ng/L	P415844	
		Ethion	0.15	U	ng/L	P415844	
		Ethoprop	0.10	U	ng/L	P415844	

Field ID: G2TLHR0092

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2337360	EPA 8270E	Etridiazole	0.15	U	ng/L	P415844	MS
		Fenamiphos	0.51	U	ng/L	P415844	
		Fenbuconazole	0.13	U	ng/L	P415844	
		Fipronil	0.25	U	ng/L	P415844	
		Fipronil Desulfinyl**	0.13	U	ng/L	P415844	
		Fipronil Sulfide	0.15	U	ng/L	P415844	
		Fipronil Sulfone	0.15	U	ng/L	P415844	
		Fluazifop-P-butyl	0.10	U	ng/L	P415844	
		Fludioxonil	2.0		ng/L	P415844	
		Flumioxazin	1.8	U	ng/L	P415844	
		Flutolanil	0.54		ng/L	P415844	
		Fluxapyroxad	11		ng/L	P415844	
		Fonofos	0.20	U	ng/L	P415844	
		Hexazinone	0.51	U	ng/L	P415844	
		Imazalil	0.76	U	ng/L	P415844	
		Iprodione	0.61	U	ng/L	P415844	
		Loratadine**	0.10	U	ng/L	P415844	
		Malathion	0.35	U	ng/L	P415844	
		Metalaxyl	1.3	I	ng/L	P415844	
		Metolachlor	52		ng/L	P415844	
		Metribuzin	2.5	U	ng/L	P415844	
		Mevinphos	1.1	U	ng/L	P415844	
		Molinate	0.30	U	ng/L	P415844	
		Myclobutanil	0.25	U	ng/L	P415844	
		Naled	1.5	U	ng/L	P415844	
		Napropamide	0.41	U	ng/L	P415844	
		Norflurazon	0.51	U	ng/L	P415844	
		Oxadiazon	0.30	U	ng/L	P415844	
		Oxyfluorfen	0.15	U	ng/L	P415844	
		Parathion Ethyl	0.25	U	ng/L	P415844	
		Parathion Methyl	0.56	U	ng/L	P415844	
		Pendimethalin	1.0	U	ng/L	P415844	
		Phenytion**	3.5	U	ng/L	P415844	
		Phorate	0.53	U	ng/L	P415844	
		Prodiamine	0.18	U	ng/L	P415844	
		Prometon	0.91	U	ng/L	P415844	
		Prometryn	0.20	U	ng/L	P415844	
		Pronamide	0.15	U	ng/L	P415844	
		Propanil	0.13	U	ng/L	P415844	
		Propargite	1.5	U	ng/L	P415844	
		Propiconazole	0.52	I	ng/L	P415844	
		Pyraflufen Ethyl	0.25	U	ng/L	P415844	
		Pyridaben	0.46	U	ng/L	P415844	
		Pyriproxyfen	0.13	U	ng/L	P415844	
		Simazine	0.51	U	ng/L	P415844	

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

Sample Location: Flat Creek @ CR269

Collection Date/Time: 06/27/2022 11:10

Field ID: G2TLHR0020

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2337332	DEP SOP: NU-094-1	Color (true)	40		PCU	P415909	
	EPA 180.1 Rev. 2.0	Turbidity	12		NTU	P415901	
	EPA 300.0 Rev. 2.1	Sulfate	0.67		mg SO4/L	P416151	
	SM 2320 B-2011	Total Alkalinity	15		mg CaCO3/L	P416070	
	SM 2540 C-2011	TDS	36		mg/L	P416223	
	SM 2540 D-2011	TSS	15		mg/L	P416190	
	SM 4500-F- C-2011	Fluoride	0.092	I	mg F/L	P416338	
2337337	EPA 350.1 Rev. 2.0	Ammonia-N	0.021		mg N/L	P415992	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.32		mg N/L	P416109	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.39		mg N/L	P416403	
	EPA 365.1 Rev. 2.0	Total-P	0.19		mg P/L	P416023	
	SM 5310 B-2011	Organic Carbon	3.0		mg C/L	P416028	
2337364	EPA 200.7 Rev. 4.4	Calcium	4.77		mg/L	P415841	
		Iron	1.0E+03		ug/L	P415841	
		Magnesium	2.03		mg/L	P415841	
		Potassium	0.44	I	mg/L	P415841	
		Sodium	2.1		mg/L	P415841	
		Strontium	12.6		ug/L	P415841	
		Tin	3.0	U	ug/L	P415841	
	EPA 200.8 Rev. 5.4	Titanium	14.2		ug/L	P415841	
		Vanadium	2.0	U	ug/L	P415841	
		Zinc	5.0	U	ug/L	P415841	
		Aluminum	412		ug/L	P415841	
		Antimony	0.050	U	ug/L	P415841	
		Arsenic	0.72		ug/L	P415841	
		Barium	13.7		ug/L	P415841	
		Beryllium	0.026	I	ug/L	P415841	
		Boron	9.4		ug/L	P415841	
		Cadmium	0.020	U	ug/L	P415841	
		Chromium	0.62	I	ug/L	P415841	
		Cobalt	0.205		ug/L	P415841	
		Copper	33.4		ug/L	P415841	
		Lead	0.33	I	ug/L	P415841	
		Manganese	34.2		ug/L	P415841	
		Molybdenum	0.20	I	ug/L	P415841	
		Nickel	0.50	U	ug/L	P415841	
		Selenium	0.20	U	ug/L	P415841	
		Silver	0.010	U	ug/L	P415841	
		Thallium	0.10	U	ug/L	P415841	
	SM 2340 B-2011	Hardness	20.3		mg/L	P415841	

Ref. Method and Comment:

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

EPA 200.8 Rev. 5.4: The copper result was confirmed in the undigested sample on 06/30/2022.

Sample Location: Crooked Creek @ Aspalaga Rd

Collection Date/Time: 06/27/2022 11:25

Field ID: G2TLHR0010

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2337333	DEP SOP: NU-094-1	Color (true)	39		PCU	P415909	
	EPA 180.1 Rev. 2.0	Turbidity	12		NTU	P415901	
	EPA 300.0 Rev. 2.1	Sulfate	0.65		mg SO4/L	P416151	
	SM 2320 B-2011	Total Alkalinity	7.2		mg CaCO3/L	P416070	
	SM 2540 C-2011	TDS	33		mg/L	P416223	
	SM 2540 D-2011	TSS	16		mg/L	P416190	
	SM 4500-F- C-2011	Fluoride	0.064	I	mg F/L	P416338	
2337338	EPA 350.1 Rev. 2.0	Ammonia-N	0.016		mg N/L	P415992	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.31		mg N/L	P416109	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.21		mg N/L	P416403	
	EPA 365.1 Rev. 2.0	Total-P	0.18		mg P/L	P416023	
	SM 5310 B-2011	Organic Carbon	3.0		mg C/L	P416028	
2337365	EPA 200.7 Rev. 4.4	Calcium	2.78		mg/L	P415841	
		Iron	870		ug/L	P415841	
		Magnesium	1.04		mg/L	P415841	
		Potassium	0.30	U	mg/L	P415841	
		Sodium	1.5	I	mg/L	P415841	
		Strontium	7.6	I	ug/L	P415841	
		Tin	3.0	U	ug/L	P415841	
	EPA 200.8 Rev. 5.4	Titanium	23.8		ug/L	P415841	
		Vanadium	2.0	U	ug/L	P415841	
		Zinc	5.0	U	ug/L	P415841	
		Aluminum	554		ug/L	P415841	
		Antimony	0.050	U	ug/L	P415841	
		Arsenic	0.53		ug/L	P415841	
		Barium	10.9		ug/L	P415841	
		Beryllium	0.031	I	ug/L	P415841	
		Boron	7.9	I	ug/L	P415841	
		Cadmium	0.020	U	ug/L	P415841	
		Chromium	0.82	I	ug/L	P415841	
		Cobalt	0.208		ug/L	P415841	
		Copper	0.40	U	ug/L	P415841	
		Lead	0.40	I	ug/L	P415841	
		Manganese	24.7		ug/L	P415841	
		Molybdenum	0.16	I	ug/L	P415841	
		Nickel	0.50	U	ug/L	P415841	
		Selenium	0.20	U	ug/L	P415841	
		Silver	0.010	U	ug/L	P415841	
		Thallium	0.10	U	ug/L	P415841	
	SM 2340 B-2011	Hardness	11.2		mg/L	P415841	

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: Crooked Creek @ SR270

Collection Date/Time: 06/27/2022 11:40

Field ID: G2TLHR0056

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2337334	DEP SOP: NU-094-1	Color (true)	34		PCU	P415909	
	EPA 180.1 Rev. 2.0	Turbidity	9.2		NTU	P415901	
	EPA 300.0 Rev. 2.1	Sulfate	0.67		mg SO4/L	P416151	
	SM 2320 B-2011	Total Alkalinity	4.2		mg CaCO3/L	P416070	
	SM 2540 C-2011	TDS	29		mg/L	P416223	
	SM 2540 D-2011	TSS	12		mg/L	P416190	
	SM 4500-F- C-2011	Fluoride	0.065	I	mg F/L	P416338	
2337339	EPA 350.1 Rev. 2.0	Ammonia-N	0.010		mg N/L	P415992	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.29		mg N/L	P416109	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.24		mg N/L	P416403	
	EPA 365.1 Rev. 2.0	Total-P	0.19		mg P/L	P416023	
	SM 5310 B-2011	Organic Carbon	2.6		mg C/L	P416028	
2337366	EPA 200.7 Rev. 4.4	Calcium	1.99		mg/L	P415841	
		Iron	600		ug/L	P415841	
		Magnesium	0.64		mg/L	P415841	
		Potassium	0.30	U	mg/L	P415841	
		Sodium	1.4	I	mg/L	P415841	
		Strontium	6.5	I	ug/L	P415841	
		Tin	3.0	U	ug/L	P415841	
	EPA 200.8 Rev. 5.4	Titanium	13.5		ug/L	P415841	
		Vanadium	2.0	U	ug/L	P415841	
		Zinc	5.0	U	ug/L	P415841	
		Aluminum	435		ug/L	P415841	
		Antimony	0.050	U	ug/L	P415841	
		Arsenic	0.46		ug/L	P415841	
		Barium	9.92		ug/L	P415841	
		Beryllium	0.024	I	ug/L	P415841	
		Boron	7.4	I	ug/L	P415841	
		Cadmium	0.020	I	ug/L	P415841	
		Chromium	0.63	I	ug/L	P415841	
		Cobalt	0.155		ug/L	P415841	
		Copper	2.38		ug/L	P415841	
		Lead	0.34	I	ug/L	P415841	
		Manganese	13.6		ug/L	P415841	
		Molybdenum	0.15	U	ug/L	P415841	
		Nickel	0.50	U	ug/L	P415841	
		Selenium	0.20	U	ug/L	P415841	
		Silver	0.010	U	ug/L	P415841	
		Thallium	0.10	U	ug/L	P415841	
	SM 2340 B-2011	Hardness	7.6		mg/L	P415841	

Ref. Method and Comment:

SM 2540 D-2011: 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: P415909

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P415901

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P415841

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: P415841

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416148

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416151

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415992

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415921

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P416109

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416401

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416403

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P416023

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

Reference Method: EPA 8270E
Batch ID: P415844

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415844

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415844

Component	Result	Code	Units
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
Metaxyl	0.75	U	ng/L
Metaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415844

Component	Result	Code	Units
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
Phenytoin	3.5	U	ng/L
Phenytoin	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
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
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8270E

Batch ID: P416473

Component	Result	Code	Units
Aldrin	0.65	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P416473

Component	Result	Code	Units
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
Fenpropathrin	0.25	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P416473

Component	Result	Code	Units
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	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276

Batch ID: P416473

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P415664

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

Reference Method: EPA 8321B

Batch ID: P415828

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0040	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B

Batch ID: P415853

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P415853

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P416070

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

Reference Method: SM 2540 C-2011
Batch ID: P416223

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P416190

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P416338

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P416028

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: P415909

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.4		P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P415901

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P415841

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	105		P	85 - 115
Iron	104		P	85 - 115
Magnesium	105		P	85 - 115
Potassium	106		P	85 - 115
Sodium	100		P	85 - 115
Strontium	102		P	85 - 115
Tin	105		P	85 - 115
Titanium	104		P	85 - 115
Vanadium	95.7		P	85 - 115
Zinc	102		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P415841

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	102		P	85 - 115
Antimony	103		P	85 - 115
Arsenic	99.1		P	85 - 115
Barium	105		P	85 - 115
Beryllium	99.2		P	85 - 115
Boron	106		P	85 - 115
Cadmium	99.8		P	85 - 115
Chromium	102		P	85 - 115
Cobalt	103		P	85 - 115
Copper	102		P	85 - 115
Lead	95.7		P	85 - 115
Manganese	104		P	85 - 115
Molybdenum	99.9		P	85 - 115
Nickel	101		P	85 - 115
Selenium	98.6		P	85 - 115
Silver	99.4		P	85 - 115
Thallium	98.9		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416148

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416151

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415992

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415921

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P416109

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	107		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416401

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416403

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P416023

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

Reference Method: EPA 8270E
Batch ID: P415844

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	105		P	70 - 121
Alachlor	106		P	68 - 119
Ametryn	93.7		P	64 - 139
Atrazine	107		P	76 - 120
Atrazine Desethyl	79.8		P	44 - 126
Azinphos Methyl	150		P	43 - 192
Azoxystrobin	134		P	36 - 224
Bromacil	75.9		P	52 - 121
Butylate	73.6		P	28 - 91.0
Caffeine	59.3		P	50 - 134

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P415844

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Carbophenothion	101		P	56 - 129
Carfentrazone Ethyl	103		P	60 - 141
Chlorfenapyr	57.2		P	56 - 115
Chlorpyrifos Ethyl	69.1		P	60 - 118
Chlorpyrifos Methyl	76.4		P	68 - 119
Coumaphos	65.6		P	18 - 250
Cyanazine	110		P	61 - 250
Cyprodinil	83.2		P	55 - 145
Demeton	82.4		P	30 - 159
Diazinon	112		P	70 - 123
Difenoconazole	72.9		P	49 - 204
Dimethenamid	86.7		P	64 - 115
Dimethomorph	192		P	12 - 219
Disulfoton	86.4		P	44 - 125
Dithiopyr	99.5		P	64 - 115
EPTC	68.0		P	28 - 86.0
Ethion	69.6		P	33 - 125
Ethoprop	96.3		P	64 - 116
Etridiazole	86.1		P	34 - 91.0
Fenamiphos	61.0		P	12 - 127
Fenbuconazole	88.6		P	59 - 151
Fipronil	101		P	67 - 129
Fipronil Desulfinyl	106		P	65 - 127
Fipronil Sulfide	76.4		P	61 - 116
Fipronil Sulfone	99.0		P	55 - 117
Fluazifop-P-butyl	99.7		P	62 - 127
Fludioxonil	74.1		P	62 - 128
Flumioxazin	110		P	33 - 250
Flutolanil	84.7		P	56 - 127
Fluxapyroxad	48.4		P	45 - 128
Fonofos	70.2		P	62 - 111
Hexazinone	90.6		P	46 - 139
Imazalil	65.4		P	38 - 142
Iprodione	92.6		P	47 - 135
Loratadine	204		P	10 - 244
Malathion	83.6		P	61 - 139
Metalaxyl	90.4		P	10 - 119
Metolachlor	79.3		P	65 - 118
Metribuzin	111		P	51 - 250
Mevinphos	91.2		P	53 - 121
Molinate	82.5		P	42 - 96.0
Myclobutanil	105		P	55 - 128
Naled	85.4		P	10 - 98.0
Napropamide	49.4		P	49 - 121
Norflurazon	87.2		P	61 - 126
Oxadiazon	67.3		P	59 - 116
Oxyfluorfen	75.4		P	64 - 137
Parathion Ethyl	90.6		P	70 - 112
Parathion Methyl	126		P	76 - 133
Pendimethalin	114		P	52 - 117
Phenytion	34.7		P	10 - 199
Phorate	74.5		P	48 - 121

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P415844

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Prodiamine	101		P	26 - 142
Prometon	79.9		P	43 - 123
Prometryn	81.3		P	66 - 127
Pronamide	110		P	75 - 121
Propanil	103		P	45 - 150
Propargite	161		P	42 - 208
Propiconazole	79.4		P	60 - 125
Pyraflufen Ethyl	91.4		P	70 - 138
Pyridaben	75.0		P	35 - 245
Pyriproxyfen	49.6		P	30 - 149
Simazine	101		P	72 - 125
Stirophos	87.1		P	29 - 164
Sulfentrazone	103		P	21 - 139
Tebuconazole	16.8		P	10 - 115
Terbufos	94.8		P	60 - 123
Terbutylazine	93.4		P	72 - 115
Thiobencarb	107		P	31 - 139
Triadimefon	83.2		P	65 - 116

Reference Method: EPA 8270E

Batch ID: P416473

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	68.3		P	10 - 92.0
Alpha-BHC	104		P	75 - 107
Alpha-Chlordane	102		P	50 - 108
Beta-BHC	125		P	36 - 138
Beta-Cyfluthrin	88.3		P	20 - 161
Bifenthrin	72.5		P	10 - 119
Chlorothalonil	88.1		P	26 - 186
Cis-Nonachlor	71.5		P	42 - 119
Cypermethrin	88.3		P	22 - 150
Dacthal	101		P	72 - 119
DDD-p,p'	67.6		P	45 - 107
DDE-p,p'	97.9		P	48 - 106
DDT-p,p'	82.2		P	48 - 110
Delta-BHC	117		P	54 - 140
Deltamethrin	94.1		P	22 - 189
Dichlobenil	103		P	36 - 117
Dicofol	78.0		P	46 - 155
Dieldrin	96.4		P	54 - 110
Endosulfan I	103		P	59 - 105
Endosulfan II	76.0		P	51 - 118
Endosulfan Sulfate	84.0		P	57 - 121
Endrin	73.3		P	10 - 120
Endrin Aldehyde	72.9		P	34 - 118
Endrin Ketone	88.1		P	69 - 177
Esfenvalerate	80.2		P	23 - 168
Ethalfuralin	86.9		P	49 - 99.0
Fenpropathrin	83.3		P	34 - 117
Gamma-BHC	114		P	72 - 117
Gamma-Chlordane	93.0		P	43 - 106

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P416473

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Heptachlor	84.4		P	41 - 98.0
Heptachlor Epoxide	102		P	57 - 106
Hexachlorobenzene	83.9		P	36 - 99.0
Kepone	44.9		P	16 - 215
Lambda-Cyhalothrin	77.8		P	21 - 177
Methoprene	83.8		P	10 - 119
Methoxychlor	96.7		P	60 - 112
MGK-264	98.0		P	26 - 122
Mirex	66.2		P	10 - 169
Oxychlordane	87.4		P	43 - 105
Permethrin	87.7		P	24 - 148
Phenothrin	68.9		P	10 - 106
Piperonyl Butoxide	138		P	10 - 139
Prallethrin	98.1		P	17 - 109
Tau-Fluvalinate	80.4		P	13 - 131
Tetramethrin	97.3		P	10 - 132
Trans-Nonachlor	94.6		P	44 - 106
Triclosan Methyl	102		P	59 - 109
Trifluralin	84.4		P	44 - 101

Reference Method: EPA 8276
Batch ID: P416473

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	102		P	53 - 126
Toxaphene	121		P	56 - 211

Reference Method: EPA 8321B
Batch ID: P415664

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	71.9		P	40 - 150
Aldicarb	60.4		P	30 - 150
Aldicarb Sulfone	85.5		P	40 - 150
Aldicarb Sulfoxide	83.8		P	40 - 150
Carbaryl	75.0		P	40 - 150
Carbofuran	82.1		P	40 - 150
Methiocarb	72.1		P	40 - 150
Methomyl	74.3		P	40 - 150
Oxamyl	81.7		P	40 - 150
Propoxur	68.6		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P415828

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	52.9		P	40 - 150
2,4,5-T	44.6		P	40 - 150
Acetaminophen	83.1		P	30 - 150
Acetamiprid	78.4		P	40 - 150
Afidopyropen	45.0		P	30 - 150
Bentazon	70.8		P	30 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P415828

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Benzovindiflupyr	87.2		P	40 - 150
Carbamazepine	83.5		P	40 - 150
Clothianidin	89.4		P	40 - 150
Dinotefuran	90.8		P	40 - 150
Diuron	66.8		P	40 - 150
Fenuron	90.2		P	40 - 150
Fluridone	80.6		P	40 - 150
Hydrocodone	81.9		P	40 - 150
Ibuprofen	60.5		P	40 - 150
Imazapyr	88.0		P	40 - 150
Imidacloprid	87.9		P	40 - 150
Linuron	66.8		P	40 - 150
Mandestrobin	72.4		P	40 - 150
MCPP	69.4		P	40 - 150
Naproxen	42.9		P	40 - 150
Primidone	92.2		P	40 - 150
Pyraclostrobin	72.5		P	40 - 150
Silvex	42.7		P	40 - 150
Thiamethoxam	83.8		P	40 - 150
Tolfenpyrad	43.0		P	30 - 150
Triclopyr	51.2		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P415853

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	98.8		P	40 - 150
AMPA	102		P	40 - 150
Endothall	94.6		P	40 - 150
Glufosinate	95.1		P	40 - 150
Glyphosate	102		P	40 - 150
Sucralose	98.5		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P416070

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	94 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P416338

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

Reference Method: SM 5310 B-2011

Batch ID: P416028

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P415841

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2334914	Calcium	104		P	80 - 120
2334914	Iron	104	104	P/P	80 - 120
2334914	Magnesium	104	104	P/P	80 - 120
2334914	Potassium	105	104	P/P	80 - 120
2334914	Sodium	99.6		P	80 - 120
2334914	Strontium	101	101	P/P	80 - 120
2334914	Tin	98.4	99.5	P/P	80 - 120
2334914	Titanium	101	101	P/P	80 - 120
2334914	Vanadium	95.9	96.1	P/P	80 - 120
2334914	Zinc	97.6	98.1	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P415841

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2334914	Aluminum	98.9	95.6	P/P	80 - 120
2334914	Antimony	105	101	P/P	80 - 120
2334914	Arsenic	99.0	95.8	P/P	80 - 120
2334914	Barium	103	99.8	P/P	80 - 120
2334914	Beryllium	96.8	94.3	P/P	80 - 120
2334914	Boron	105	99.6	P/P	80 - 120
2334914	Cadmium	103	99.1	P/P	80 - 120
2334914	Chromium	103	98.2	P/P	80 - 120
2334914	Cobalt	103	99.0	P/P	80 - 120
2334914	Copper	97.1	93.3	P/P	80 - 120
2334914	Lead	95.5	92.3	P/P	80 - 120
2334914	Manganese	106	101	P/P	80 - 120
2334914	Molybdenum	103	98.4	P/P	80 - 120
2334914	Nickel	101	97.6	P/P	80 - 120
2334914	Selenium	95.5	95.6	P/P	80 - 120
2334914	Silver	96.7	95.9	P/P	80 - 120
2334914	Thallium	101	98.2	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416148

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337487	Chloride	98.8		P	90 - 110
2337511	Chloride	99.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416151

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337487	Sulfate	93.5		P	90 - 110
2337511	Sulfate	96.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415992

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336974	Ammonia-N	98.6	101	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415921

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337335	Kjeldahl Nitrogen	103	95.9	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P416109

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337329	Kjeldahl Nitrogen	97.6	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416401

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337072	NO2NO3-N	99.8		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416403

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337338	NO2NO3-N	104	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P416023

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337375	Total-P	103	104	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P415844

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336742	Acetochlor	99.8	87.0	P/P	65 - 124
2336742	Alachlor	97.4	84.4	P/P	61 - 121
2336742	Ametryn	107	101	P/P	52 - 216
2336742	Atrazine Desethyl	85.5	76.8	P/P	15 - 160
2336742	Azinphos Methyl	153	149	P/P	40 - 292
2336742	Azoxystrobin	112	103	P/P	12 - 242
2336742	Bromacil	97.9	87.9	P/P	54 - 167
2336742	Butylate	45.8	34.8	P/P	14 - 94.0
2336742	Caffeine	85.4	88.9	P/P	10 - 226
2336742	Carbophenothion	110	98.2	P/P	49 - 122
2336742	Carfentrazone Ethyl	115	94.4	P/P	53 - 138
2336742	Chlorfenapyr	90.9	73.8	P/P	50 - 150
2336742	Chlorpyrifos Ethyl	86.3	77.9	P/P	52 - 122
2336742	Chlorpyrifos Methyl	84.0	71.7	P/P	66 - 117
2336742	Coumaphos	112	96.6	P/P	50 - 220
2336742	Cyanazine	103	89.2	P/P	43 - 245
2336742	Cyprodinil	98.5	85.3	P/P	50 - 150
2336742	Demeton	73.2	65.2	P/P	43 - 188
2336742	Diazinon	101	85.7	P/P	69 - 131
2336742	Difenoconazole	143	129	P/P	34 - 231
2336742	Dimethenamid	85.0	72.5	P/P	55 - 118
2336742	Dimethomorph	95.9	88.8	P/P	50 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P415844

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336742	Disulfoton	84.1	74.5	P/P	38 - 141
2336742	Dithiopyr	97.7	83.4	P/P	42 - 116
2336742	EPTC	39.2	28.1	P/P	18 - 85.0
2336742	Ethion	81.8	68.4	P/P	10 - 131
2336742	Ethoprop	97.4	82.4	P/P	65 - 129
2336742	Etridiazole	51.3	38.5	P/F	50 - 150
2336742	Fenamiphos	98.0	85.5	P/P	31 - 137
2336742	Fenbuconazole	111	94.1	P/P	57 - 160
2336742	Fipronil	115	97.6	P/P	62 - 132
2336742	Fipronil Desulfinyl	120	97.5	P/P	57 - 131
2336742	Fipronil Sulfide	95.8	82.4	P/P	15 - 138
2336742	Fipronil Sulfone	105	96.3	P/P	21 - 134
2336742	Fluazifop-P-butyl	122	111	P/P	54 - 133
2336742	Fludioxonil	95.3	80.7	P/P	58 - 127
2336742	Flumioxazin	174	155	P/P	33 - 300
2336742	Flutolanil	116	94.9	P/P	42 - 130
2336742	Fluxapyroxad	114	103	P/P	23 - 141
2336742	Fonofos	80.7	79.4	P/P	58 - 119
2336742	Hexazinone	110	97.0	P/P	68 - 172
2336742	Imazail	72.4	66.4	P/P	48 - 283
2336742	Iprodione	118	102	P/P	38 - 140
2336742	Loratadine	96.6	91.9	P/P	50 - 150
2336742	Malathion	113	99.7	P/P	40 - 137
2336742	Metaxyl	94.8	86.1	P/P	21 - 129
2336742	Metolachlor	102	91.0	P/P	55 - 122
2336742	Metribuzin	97.9	86.0	P/P	38 - 187
2336742	Mevinphos	86.3	73.7	P/P	54 - 134
2336742	Molinate	60.6	51.6	P/P	41 - 97.0
2336742	Myclobutanil	113	101	P/P	56 - 125
2336742	Naled	87.7	76.3	P/P	10 - 108
2336742	Napropamide	82.2	70.9	P/P	50 - 150
2336742	Norflurazon	93.6	83.7	P/P	32 - 122
2336742	Oxadiazon	90.6	81.7	P/P	40 - 119
2336742	Oxyfluorfen	122	108	P/P	61 - 153
2336742	Parathion Ethyl	96.9	86.0	P/P	59 - 130
2336742	Parathion Methyl	117	101	P/P	65 - 155
2336742	Pendimethalin	106	96.2	P/P	49 - 138
2336742	Phenytol	116	104	P/P	50 - 200
2336742	Phorate	69.7	62.0	P/P	54 - 161
2336742	Prodiamine	74.7	63.4	P/P	33 - 161
2336742	Prometon	90.0	82.3	P/P	48 - 140
2336742	Prometryn	96.2	81.5	P/P	55 - 134
2336742	Pronamide	123	116	P/P	66 - 137
2336742	Propanil	139	115	P/P	50 - 150
2336742	Propargite	93.4	71.7	P/P	50 - 200
2336742	Propiconazole	85.7	79.4	P/P	36 - 150
2336742	Pyraflufen Ethyl	106	87.0	P/P	50 - 150
2336742	Pyridaben	111	102	P/P	50 - 200
2336742	Pyriproxyfen	104	87.8	P/P	10 - 165
2336742	Simazine	104	88.7	P/P	57 - 145
2336742	Stirophos	78.1	62.4	P/P	50 - 150
2336742	Sulfentrazone	114	99.2	P/P	34 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P415844

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336742	Tebuconazole	70.9	55.7	P/P	10 - 127
2336742	Terbufos	95.7	81.2	P/P	59 - 138
2336742	Terbuthylazine	97.4	83.3	P/P	68 - 119
2336742	Thiobencarb	114	97.3	P/P	50 - 150
2336742	Triadimefon	103	86.4	P/P	50 - 150

Reference Method: EPA 8270E
Batch ID: P416473

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2340506	Aldrin	66.4	68.2	P/P	20 - 82.0
2340506	Alpha-BHC	101	99.7	P/P	71 - 109
2340506	Alpha-Chlordane	92.6	85.3	P/P	42 - 106
2340506	Beta-BHC	118	116	P/P	69 - 180
2340506	Beta-Cyfluthrin	81.9	97.7	P/P	18 - 175
2340506	Bifenthrin	69.4	79.0	P/P	21 - 128
2340506	Chlorothalonil	127	110	P/P	10 - 300
2340506	Cis-Nonachlor	74.5	73.7	P/P	34 - 106
2340506	Cypermethrin	80.2	85.0	P/P	22 - 158
2340506	Dacthal	102	95.0	P/P	54 - 116
2340506	DDD-p,p'	70.8	66.9	P/P	34 - 107
2340506	DDE-p,p'	88.6	84.9	P/P	33 - 110
2340506	DDT-p,p'	77.8	80.0	P/P	50 - 122
2340506	Delta-BHC	113	109	P/P	77 - 193
2340506	Deltamethrin	96.3	116	P/P	10 - 195
2340506	Dichlobenil	101	94.8	P/P	25 - 113
2340506	Dicofol	72.1	80.0	P/P	38 - 247
2340506	Dieldrin	85.6	78.1	P/P	45 - 118
2340506	Endosulfan I	93.1	85.6	P/P	51 - 106
2340506	Endosulfan II	81.4	75.2	P/P	37 - 122
2340506	Endosulfan Sulfate	86.2	87.0	P/P	43 - 132
2340506	Endrin	76.9	71.2	P/P	29 - 101
2340506	Endrin Aldehyde	65.2	57.0	P/P	19 - 110
2340506	Endrin Ketone	88.5	89.8	P/P	60 - 140
2340506	Esfenvalerate	79.8	98.2	P/P	26 - 199
2340506	Ethalfuralin	83.7	80.8	P/P	45 - 99.0
2340506	Fenpropathrin	79.5	85.8	P/P	35 - 120
2340506	Gamma-BHC	107	105	P/P	63 - 128
2340506	Gamma-Chlordane	85.7	80.4	P/P	40 - 104
2340506	Heptachlor	75.2	70.6	P/P	36 - 97.0
2340506	Heptachlor Epoxide	98.1	91.8	P/P	49 - 184
2340506	Hexachlorobenzene	84.4	80.9	P/P	39 - 96.0
2340506	Kepone	39.4	16.8	P/P	10 - 217
2340506	Lambda-Cyhalothrin	77.6	89.8	P/P	21 - 193
2340506	Methoprene	71.8	74.3	P/P	20 - 106
2340506	Methoxychlor	89.8	96.6	P/P	53 - 118
2340506	MGK-264	90.9	92.6	P/P	40 - 118
2340506	Mirex	62.2	67.3	P/P	26 - 92.0
2340506	Oxychlordane	85.5	80.9	P/P	44 - 99.0
2340506	Permethrin	79.7	94.7	P/P	33 - 182
2340506	Phenothrin	66.9	80.9	P/P	10 - 129
2340506	Piperonyl Butoxide	137	123	P/P	10 - 211

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P416473

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2340506	Prallethrin	87.4	86.1	P/P	24 - 113
2340506	Tau-Fluvalinate	83.3	99.8	P/P	14 - 149
2340506	Tetramethrin	98.2	116	P/P	17 - 151
2340506	Trans-Nonachlor	91.0	91.4	P/P	42 - 102
2340506	Triclosan Methyl	93.1	83.8	P/P	48 - 108
2340506	Trifluralin	90.3	79.7	P/P	47 - 96.0

Reference Method: EPA 8276

Batch ID: P416473

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2340415	Chlordane	106	98.0	P/P	53 - 126
2340415	Toxaphene	147	127	P/P	56 - 211

Reference Method: EPA 8321B

Batch ID: P415664

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336088	3-Hydroxycarbofuran	85.1	89.0	P/P	40 - 150
2336088	Aldicarb	53.1	73.7	P/P	30 - 150
2336088	Aldicarb Sulfone	95.1	98.2	P/P	40 - 150
2336088	Aldicarb Sulfoxide	49.6	53.5	P/P	40 - 150
2336088	Carbaryl	73.0	80.5	P/P	40 - 150
2336088	Carbofuran	78.1	82.0	P/P	40 - 150
2336088	Methiocarb	75.0	78.4	P/P	40 - 150
2336088	Methomyl	77.8	84.0	P/P	40 - 150
2336088	Oxamyl	86.1	88.0	P/P	40 - 150
2336088	Propoxur	72.2	66.9	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P415828

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336740	2,4-D	50.1	66.5	P/P	40 - 150
2336740	2,4,5-T	39.2	39.5	F/F	40 - 150
2336740	Acetaminophen	92.2	98.3	P/P	30 - 150
2336740	Acetamiprid	69.3	82.3	P/P	40 - 150
2336740	Afidopyropen	50.1	63.1	P/P	30 - 150
2336740	Bentazon	47.7	47.0	P/P	30 - 150
2336740	Benzovindiflupyr	84.4	89.3	P/P	40 - 150
2336740	Carbamazepine	79.4	85.7	P/P	40 - 150
2336740	Clothianidin	96.5	111	P/P	40 - 150
2336740	Dinotefuran	120	133	P/P	40 - 150
2336740	Diuron	58.7	56.6	P/P	40 - 150
2336740	Fenuron	79.6	89.6	P/P	40 - 150
2336740	Fluridone	68.0	79.9	P/P	40 - 150
2336740	Hydrocodone	90.6	95.8	P/P	40 - 150
2336740	Ibuprofen	72.4	67.9	P/P	40 - 150
2336740	Imazapyr	73.0	79.6	P/P	40 - 150
2336740	Imidacloprid	121	127	P/P	40 - 150
2336740	Linuron	68.2	77.1	P/P	40 - 150
2336740	Mandestrobin	68.2	75.2	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P415828

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336740	MCP	63.8	69.1	P/P	40 - 150
2336740	Naproxen	51.3	60.8	P/P	40 - 150
2336740	Primidone	94.7	110	P/P	40 - 150
2336740	Pyraclostrobin	74.5	82.8	P/P	40 - 150
2336740	Silvex	49.3	47.4	P/P	40 - 150
2336740	Thiamethoxam	115	127	P/P	40 - 150
2336740	Tolfenpyrad	44.9	46.7	P/P	30 - 150
2336740	Triclopyr	48.1	50.0	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P415853

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337358	Acesulfame K	101	101	P/P	40 - 150
2337358	AMPA	95.0	97.0	P/P	40 - 150
2337358	Endothall	96.0	96.6	P/P	40 - 150
2337358	Glufosinate	87.6	85.2	P/P	40 - 150
2337358	Glyphosate	78.8	84.4	P/P	40 - 150
2337358	Sucralose	101	101	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P416338

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337539	Fluoride	102	101	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P416028

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337500	Organic Carbon	99.4	99.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P415909

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337398	Color (true)	0.473	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P415901

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337328	Turbidity	5.22	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P415841

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334914	Calcium	1.17	Spike	P	0 - 20
2334914	Iron	0.0619	Spike	P	0 - 20
2334914	Magnesium	0.428	Spike	P	0 - 20
2334914	Potassium	0.665	Spike	P	0 - 20
2334914	Sodium	0.132	Spike	P	0 - 20
2334914	Strontium	0.207	Spike	P	0 - 20
2334914	Tin	1.16	Spike	P	0 - 20
2334914	Titanium	0.138	Spike	P	0 - 20
2334914	Vanadium	0.185	Spike	P	0 - 20
2334914	Zinc	0.539	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P415841

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334914	Aluminum	3.39	Spike	P	0 - 20
2334914	Antimony	3.58	Spike	P	0 - 20
2334914	Arsenic	3.31	Spike	P	0 - 20
2334914	Barium	2.74	Spike	P	0 - 20
2334914	Beryllium	2.60	Spike	P	0 - 20
2334914	Boron	4.42	Spike	P	0 - 20
2334914	Cadmium	3.42	Spike	P	0 - 20
2334914	Chromium	4.12	Spike	P	0 - 20
2334914	Cobalt	3.51	Spike	P	0 - 20
2334914	Copper	4.04	Spike	P	0 - 20
2334914	Lead	3.35	Spike	P	0 - 20
2334914	Manganese	4.15	Spike	P	0 - 20
2334914	Molybdenum	4.17	Spike	P	0 - 20
2334914	Nickel	3.56	Spike	P	0 - 20
2334914	Selenium	0.0966	Spike	P	0 - 20
2334914	Silver	0.736	Spike	P	0 - 20
2334914	Thallium	2.90	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416148

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337487	Chloride	0.167	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416151

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337487	Sulfate	0.0716	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415992

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336974	Ammonia-N	2.21	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415921

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337335	Kjeldahl Nitrogen	6.52	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P416109

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337329	Kjeldahl Nitrogen	2.25	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416401

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337072	NO2NO3-N	0.937	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416403

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337338	NO2NO3-N	1.90	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P416023

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337375	Total-P	1.03	Spike	P	0 - 20

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P415844

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336742	Acetochlor	13.7	Spike	P	0 - 27
2336742	Alachlor	14.2	Spike	P	0 - 27
2336742	Ametryn	6.42	Spike	P	0 - 34
2336742	Atrazine	2.19	Spike	P	0 - 41
2336742	Atrazine Desethyl	10.8	Spike	P	0 - 38
2336742	Azinphos Methyl	2.64	Spike	P	0 - 62
2336742	Azoxystrobin	8.64	Spike	P	0 - 32
2336742	Bromacil	10.7	Spike	P	0 - 30
2336742	Butylate	27.3	Spike	P	0 - 59
2336742	Caffeine	4.01	Spike	P	0 - 60
2336742	Carbophenothion	11.8	Spike	P	0 - 25
2336742	Carfentrazone Ethyl	19.9	Spike	P	0 - 26
2336742	Chlorfenapyr	20.8	Spike	P	0 - 30
2336742	Chlorpyrifos Ethyl	10.3	Spike	P	0 - 27
2336742	Chlorpyrifos Methyl	15.8	Spike	P	0 - 26
2336742	Coumaphos	14.3	Spike	P	0 - 30
2336742	Cyanazine	14.1	Spike	P	0 - 58
2336742	Cyprodinil	14.4	Spike	P	0 - 30
2336742	Demeton	11.6	Spike	P	0 - 25
2336742	Diazinon	16.7	Spike	P	0 - 29
2336742	Difenoconazole	9.89	Spike	P	0 - 25
2336742	Dimethenamid	14.8	Spike	P	0 - 30
2336742	Dimethomorph	7.68	Spike	P	0 - 30
2336742	Disulfoton	12.1	Spike	P	0 - 33
2336742	Dithiopyr	15.8	Spike	P	0 - 22
2336742	EPTC	32.9	Spike	P	0 - 38
2336742	Ethion	17.9	Spike	P	0 - 79
2336742	Ethoprop	16.7	Spike	P	0 - 23
2336742	Etridiazole	28.3	Spike	P	0 - 30
2336742	Fenamiphos	13.6	Spike	P	0 - 58
2336742	Fenbuconazole	16.5	Spike	P	0 - 37
2336742	Fipronil	16.8	Spike	P	0 - 33
2336742	Fipronil Desulfinyl	20.8	Spike	P	0 - 26
2336742	Fipronil Sulfide	15.0	Spike	P	0 - 37
2336742	Fipronil Sulfone	8.84	Spike	P	0 - 50
2336742	Fluazifop-P-butyl	9.34	Spike	P	0 - 24
2336742	Fludioxonil	16.6	Spike	P	0 - 26
2336742	Flumioxazin	11.2	Spike	P	0 - 37
2336742	Flutolanil	19.6	Spike	P	0 - 26
2336742	Fluxapyroxad	9.79	Spike	P	0 - 34
2336742	Fonofos	1.66	Spike	P	0 - 27
2336742	Hexazinone	12.8	Spike	P	0 - 36
2336742	Imazalil	8.74	Spike	P	0 - 65
2336742	Iprodione	14.5	Spike	P	0 - 33
2336742	Loratadine	5.01	Spike	P	0 - 30
2336742	Malathion	12.7	Spike	P	0 - 44
2336742	Metalaxyl	9.71	Spike	P	0 - 38
2336742	Metolachlor	8.54	Spike	P	0 - 36
2336742	Metribuzin	12.9	Spike	P	0 - 63
2336742	Mevinphos	15.7	Spike	P	0 - 26
2336742	Molinate	16.1	Spike	P	0 - 40

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P415844

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336742	Myclobutanil	11.0	Spike	P	0 - 21
2336742	Naled	14.0	Spike	P	0 - 26
2336742	Napropamide	14.9	Spike	P	0 - 30
2336742	Norflurazon	11.2	Spike	P	0 - 24
2336742	Oxadiazon	10.3	Spike	P	0 - 27
2336742	Oxyfluorfen	12.4	Spike	P	0 - 24
2336742	Parathion Ethyl	11.9	Spike	P	0 - 28
2336742	Parathion Methyl	14.8	Spike	P	0 - 27
2336742	Pendimethalin	9.58	Spike	P	0 - 31
2336742	Phenytoin	11.5	Spike	P	0 - 30
2336742	Phorate	11.7	Spike	P	0 - 27
2336742	Prodiamine	16.4	Spike	P	0 - 52
2336742	Prometon	8.90	Spike	P	0 - 31
2336742	Prometryn	16.6	Spike	P	0 - 28
2336742	Pronamide	6.14	Spike	P	0 - 26
2336742	Propanil	18.9	Spike	P	0 - 30
2336742	Propargite	26.2	Spike	P	0 - 30
2336742	Propiconazole	7.70	Spike	P	0 - 31
2336742	Pyraflufen Ethyl	19.7	Spike	P	0 - 30
2336742	Pyridaben	8.63	Spike	P	0 - 30
2336742	Pyriproxyfen	16.4	Spike	P	0 - 50
2336742	Simazine	15.8	Spike	P	0 - 29
2336742	Stiropfos	22.3	Spike	P	0 - 30
2336742	Sulfentrazone	13.8	Spike	P	0 - 33
2336742	Tebuconazole	22.5	Spike	P	0 - 44
2336742	Terbufos	16.4	Spike	P	0 - 29
2336742	Terbuthylazine	15.6	Spike	P	0 - 27
2336742	Thiobencarb	15.6	Spike	P	0 - 30
2336742	Triadimefon	17.4	Spike	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P416473

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2340506	Aldrin	2.59	Spike	P	0 - 41
2340506	Alpha-BHC	1.43	Spike	P	0 - 25
2340506	Alpha-Chlordane	6.65	Spike	P	0 - 33
2340506	Beta-BHC	1.86	Spike	P	0 - 36
2340506	Beta-Cyfluthrin	17.6	Spike	P	0 - 42
2340506	Bifenthrin	13.0	Spike	P	0 - 53
2340506	Chlorothalonil	14.1	Spike	P	0 - 71
2340506	Cis-Nonachlor	1.12	Spike	P	0 - 29
2340506	Cypermethrin	5.81	Spike	P	0 - 40
2340506	Dacthal	7.26	Spike	P	0 - 26
2340506	DDD-p,p'	5.78	Spike	P	0 - 39
2340506	DDE-p,p'	4.28	Spike	P	0 - 33
2340506	DDT-p,p'	2.75	Spike	P	0 - 40
2340506	Delta-BHC	3.14	Spike	P	0 - 37
2340506	Deltamethrin	18.2	Spike	P	0 - 100
2340506	Dichlobenil	5.99	Spike	P	0 - 40

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P416473

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2340506	Dicofol	10.4	Spike	P	0 - 31
2340506	Dieldrin	7.86	Spike	P	0 - 27
2340506	Endosulfan I	8.41	Spike	P	0 - 23
2340506	Endosulfan II	7.88	Spike	P	0 - 28
2340506	Endosulfan Sulfate	0.852	Spike	P	0 - 38
2340506	Endrin	7.76	Spike	P	0 - 63
2340506	Endrin Aldehyde	13.3	Spike	P	0 - 60
2340506	Endrin Ketone	1.44	Spike	P	0 - 37
2340506	Esfenvalerate	20.6	Spike	P	0 - 52
2340506	Ethalfuralin	3.55	Spike	P	0 - 23
2340506	Fenpropathrin	7.61	Spike	P	0 - 32
2340506	Gamma-BHC	2.01	Spike	P	0 - 17
2340506	Gamma-Chlordane	5.39	Spike	P	0 - 40
2340506	Heptachlor	6.25	Spike	P	0 - 29
2340506	Heptachlor Epoxide	4.60	Spike	P	0 - 25
2340506	Hexachlorobenzene	4.27	Spike	P	0 - 36
2340506	Kepone	37.0	Spike	P	0 - 93
2340506	Lambda-Cyhalothrin	14.6	Spike	P	0 - 55
2340506	Methoprene	3.37	Spike	P	0 - 53
2340506	Methoxychlor	7.31	Spike	P	0 - 29
2340506	MGK-264	1.77	Spike	P	0 - 35
2340506	Mirex	7.79	Spike	P	0 - 46
2340506	Oxychlordane	5.57	Spike	P	0 - 29
2340506	Permethrin	17.2	Spike	P	0 - 44
2340506	Phenothrin	18.9	Spike	P	0 - 56
2340506	Piperonyl Butoxide	10.8	Spike	P	0 - 100
2340506	Prallethrin	1.57	Spike	P	0 - 42
2340506	Tau-Fluvalinate	18.0	Spike	P	0 - 54
2340506	Tetramethrin	16.3	Spike	P	0 - 51
2340506	Trans-Nonachlor	0.442	Spike	P	0 - 37
2340506	Triclosan Methyl	10.5	Spike	P	0 - 31
2340506	Trifluralin	12.5	Spike	P	0 - 30

Reference Method: EPA 8276

Batch ID: P416473

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2340415	Chlordane	7.10	Spike	P	0 - 25
2340415	Toxaphene	14.9	Spike	P	0 - 26

Reference Method: EPA 8321B

Batch ID: P415664

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336088	3-Hydroxycarbofuran	4.49	Spike	P	0 - 30
2336088	Aldicarb	32.5	Spike	F	0 - 30
2336088	Aldicarb Sulfone	3.21	Spike	P	0 - 30
2336088	Aldicarb Sulfoxide	7.56	Spike	P	0 - 30
2336088	Carbaryl	9.70	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8321B

Batch ID: P415664

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336088	Carbofuran	4.77	Spike	P	0 - 30
2336088	Methiocarb	4.43	Spike	P	0 - 30
2336088	Methomyl	7.61	Spike	P	0 - 30
2336088	Oxamyl	2.17	Spike	P	0 - 30
2336088	Propoxur	7.52	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P415828

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336740	2,4-D	24.9	Spike	P	0 - 30
2336740	2,4,5-T	0.782	Spike	P	0 - 30
2336740	Acetaminophen	6.40	Spike	P	0 - 30
2336740	Acetamiprid	17.2	Spike	P	0 - 30
2336740	Afidopyropen	23.0	Spike	P	0 - 30
2336740	Bentazon	1.60	Spike	P	0 - 30
2336740	Benzovindiflupyr	5.59	Spike	P	0 - 30
2336740	Carbamazepine	7.66	Spike	P	0 - 30
2336740	Clothianidin	13.6	Spike	P	0 - 30
2336740	Dinotefuran	10.5	Spike	P	0 - 30
2336740	Diuron	3.77	Spike	P	0 - 30
2336740	Fenuron	11.8	Spike	P	0 - 30
2336740	Fluridone	16.0	Spike	P	0 - 30
2336740	Hydrocodone	5.66	Spike	P	0 - 30
2336740	Ibuprofen	6.46	Spike	P	0 - 30
2336740	Imazapyr	8.65	Spike	P	0 - 30
2336740	Imidacloprid	4.87	Spike	P	0 - 30
2336740	Linuron	12.3	Spike	P	0 - 30
2336740	Mandestrobin	9.76	Spike	P	0 - 30
2336740	MCPP	7.99	Spike	P	0 - 30
2336740	Naproxen	16.9	Spike	P	0 - 30
2336740	Primidone	14.9	Spike	P	0 - 30
2336740	Pyraclostrobin	10.5	Spike	P	0 - 30
2336740	Silvex	3.94	Spike	P	0 - 30
2336740	Thiamethoxam	10.0	Spike	P	0 - 30
2336740	Tolfenpyrad	3.87	Spike	P	0 - 30
2336740	Triclopyr	3.81	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P415853

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337358	Acesulfame K	0.243	Spike	P	0 - 30
2337358	AMPA	2.06	Spike	P	0 - 30
2337358	Endothall	0.564	Spike	P	0 - 30
2337358	Glufosinate	2.77	Spike	P	0 - 30
2337358	Glyphosate	6.86	Spike	P	0 - 30
2337358	Sucralose	0.137	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P416070

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337511	Total Alkalinity	0.617	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P416223

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337151	TDS	2.52	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P416338

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337539	Fluoride	0.480	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P416028

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337500	Organic Carbon	0.192	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2337357
Field Sample ID: G2TLHR0092

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	72.3	P	30 - 160

Lab Sample ID: 2337358
Field Sample ID: G2TLHR0092

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	66.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	100	P	30 - 160
EPA 8321B	Carbamazepine-d10	89.1	P	30 - 160
EPA 8321B	Diuron-d6	64.2	P	30 - 160
EPA 8321B	Endothall-d6	94.4	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	85.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	69.1	P	30 - 160
EPA 8321B	Primidone-d5	90.0	P	30 - 160
EPA 8321B	Sucralose-d6	101	P	30 - 160

Lab Sample ID: 2337359
Field Sample ID: G2TLHR0092

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	71.5	P	30 - 118
EPA 8270E	Decachlorobiphenyl	81.2	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	75.7	P	30 - 97.0
EPA 8270E	Tetrachloro-m-xylene	61.3	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	85.4	P	30 - 101
EPA 8276	Decachlorobiphenyl	74.9	P	30 - 101
EPA 8276	PCNB	107	P	48 - 121
EPA 8276	PCNB	105	P	48 - 121

Lab Sample ID: 2337360
Field Sample ID: G2TLHR0092

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	73.3	P	20 - 200
EPA 8270E	Simazine-d10	129	P	71 - 140
EPA 8270E	Terbufos-d10	74.5	P	62 - 131

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A113141

Included Lab Sample IDs: 2337328, 2337330, 2337331, 2337332, 2337333, 2337334

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

Reference Method: DEP SOP: NU-094-1

Run ID: A113145

Included Lab Sample IDs: 2337328, 2337330, 2337331, 2337332, 2337333, 2337334

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	96.2	98.3	P/P	85 - 115

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A113147

Included Lab Sample IDs: 2337361, 2337362, 2337363, 2337364, 2337365, 2337366

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	102	105	P/P	90 - 110
Calcium	102	102	P/P	95 - 105
Iron	99.3	105	P/P	90 - 110
Iron	99.9	99.3	P/P	95 - 105
Magnesium	99.1	104	P/P	90 - 110
Magnesium	99.7	99.1	P/P	95 - 105
Potassium	101	99.3	P/P	95 - 105
Potassium	99.3	101	P/P	90 - 110
Sodium	96.8	102	P/P	90 - 110
Sodium	98.7	96.8	P/P	95 - 105
Strontium	98.8	99.3	P/P	95 - 105
Strontium	99.3	98.5	P/P	90 - 110
Tin	100	100	P/P	90 - 110
Tin	99.3	100	P/P	95 - 105
Titanium	97.1	98.3	P/P	95 - 105
Titanium	98.3	98.5	P/P	90 - 110
Vanadium	98.7	99.2	P/P	95 - 105
Vanadium	99.2	98.1	P/P	90 - 110
Zinc	100	99.8	P/P	95 - 105
Zinc	99.8	102	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A113150

Included Lab Sample IDs: 2337361, 2337362, 2337363, 2337364, 2337365, 2337366

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	97.7	98.3	P/P	90 - 110
Aluminum	97.7	97.7	P/P	90 - 110
Antimony	98.9	99.2	P/P	90 - 110
Antimony	99.2	100	P/P	90 - 110
Arsenic	96.3	97.1	P/P	90 - 110
Arsenic	98.5	96.3	P/P	90 - 110
Barium	97.2	97.7	P/P	90 - 110
Barium	97.7	97.9	P/P	90 - 110
Beryllium	96.9	96.8	P/P	90 - 110
Beryllium	97.8	96.9	P/P	90 - 110
Boron	97.9	98.7	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A113150

Included Lab Sample IDs: 2337361, 2337362, 2337363, 2337364, 2337365, 2337366

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Boron	98.7	99.7	P/P	90 - 110
Cadmium	97.9	100	P/P	90 - 110
Cadmium	98.1	97.9	P/P	90 - 110
Chromium	97.0	99.7	P/P	90 - 110
Chromium	99.7	99.6	P/P	90 - 110
Cobalt	98.2	99.2	P/P	90 - 110
Cobalt	99.2	99.2	P/P	90 - 110
Copper	96.4	98.0	P/P	90 - 110
Copper	98.0	96.9	P/P	90 - 110
Lead	91.5	93.0	P/P	90 - 110
Lead	91.9	91.5	P/P	90 - 110
Manganese	98.9	99.7	P/P	90 - 110
Manganese	99.7	101	P/P	90 - 110
Molybdenum	96.2	97.3	P/P	90 - 110
Molybdenum	96.8	96.2	P/P	90 - 110
Nickel	97.2	97.8	P/P	90 - 110
Nickel	97.8	97.8	P/P	90 - 110
Selenium	96.6	97.2	P/P	90 - 110
Selenium	97.2	96.6	P/P	90 - 110
Silver	96.5	97.7	P/P	90 - 110
Silver	96.8	96.5	P/P	90 - 110
Thallium	92.9	95.3	P/P	90 - 110
Thallium	94.3	92.9	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A113155

Included Lab Sample IDs: 2337358

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	100	95.6	P/P	50 - 150
2,4,5-T	92.8	97.3	P/P	50 - 150
3-Hydroxycarbofuran	101	98.6	P/P	60 - 150
Acetaminophen	106	104	P/P	60 - 160
Acetamiprid	103	106	P/P	50 - 150
Afidopyropen	92.8	105	P/P	50 - 150
Aldicarb	100	100	P/P	60 - 150
Aldicarb Sulfone	102	99.3	P/P	50 - 150
Aldicarb Sulfoxide	99.1	100	P/P	50 - 150
Bentazon	101	112	P/P	50 - 160
Benzovindiflupyr	102	104	P/P	50 - 150
Carbamazepine	109	106	P/P	60 - 150
Carbaryl	105	110	P/P	60 - 150
Carbofuran	98.3	106	P/P	50 - 150
Clothianidin	104	97.8	P/P	60 - 150
Dinotefuran	103	109	P/P	50 - 150
Diuron	69.3	95.4	P/P	60 - 160
Fenuron	98.8	98.6	P/P	60 - 150
Fluridone	115	104	P/P	60 - 160
Hydrocodone	97.6	106	P/P	60 - 150
Ibuprofen	88.3	120	P/P	50 - 160
Imazapyr	84.9	83.4	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A113155
Included Lab Sample IDs: 2337358

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Imidacloprid	91.8	95.7	P/P	60 - 150
Linuron	106	90.3	P/P	60 - 150
Mandestrobin	102	101	P/P	50 - 150
MCPP	109	112	P/P	50 - 150
Methiocarb	115	116	P/P	50 - 150
Methomyl	100	99.7	P/P	50 - 150
Naproxen	120	118	P/P	50 - 160
Oxamyl	99.9	99.0	P/P	50 - 150
Primidone	106	104	P/P	60 - 150
Propoxur	97.1	94.7	P/P	50 - 150
Pyraclostrobin	104	102	P/P	60 - 150
Silvex	88.4	82.9	P/P	50 - 150
Thiamethoxam	101	101	P/P	50 - 150
Tolfenpyrad	99.6	96.0	P/P	60 - 150
Triclopyr	98.5	111	P/P	50 - 150

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A113156
Included Lab Sample IDs: 2337328

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A113171
Included Lab Sample IDs: 2337329, 2337335, 2337336, 2337337, 2337338, 2337339

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.5	97.8	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A113181
Included Lab Sample IDs: 2337358

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	101	103	P/P	60 - 160
Sucralose	101	102	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A113183
Included Lab Sample IDs: 2337358

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	102	104	P/P	60 - 160
Endothall	97.4	93.9	P/P	60 - 160
Glufosinate	75.8	77.3	P/P	60 - 160
Glyphosate	98.6	99.3	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A113196

Included Lab Sample IDs: 2337329, 2337335, 2337336, 2337337, 2337338, 2337339

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

Reference Method: SM 2320 B-2011

Run ID: A113225

Included Lab Sample IDs: 2337328, 2337330, 2337331, 2337332, 2337333, 2337334

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	98.2	P/P	90 - 110
Total Alkalinity	98.2	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A113239

Included Lab Sample IDs: 2337335, 2337336

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.2	92.8	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A113248

Included Lab Sample IDs: 2337360

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	101		P	80 - 120
Alachlor	105		P	80 - 120
Ametryn	96.3		P	80 - 120
Atrazine	95.9		P	80 - 120
Atrazine Desethyl	90.9		P	80 - 120
Azinphos Methyl	109		P	80 - 120
Azoxystrobin	97.9		P	80 - 120
Bromacil	96.5		P	80 - 120
Butylate	93.7		P	80 - 120
Caffeine	95.5		P	80 - 120
Carbophenothion	99.8		P	80 - 120
Carfentrazone Ethyl	96.3		P	80 - 120
Chlorfenapyr	94.2		P	80 - 120
Chlorpyrifos Ethyl	87.7		P	80 - 120
Chlorpyrifos Methyl	84.0		P	80 - 120
Coumaphos	84.7		P	80 - 120
Cyanazine	89.4		P	80 - 120
Cyprodinil	94.4		P	80 - 120
Demeton	91.7		P	80 - 120
Diazinon	94.3		P	80 - 120
Difenoconazole	91.1		P	80 - 120
Dimethenamid	101		P	80 - 120
Dimethomorph	93.9		P	80 - 120
Disulfoton	96.3		P	80 - 120
Dithiopyr	89.8		P	80 - 120
EPTC	96.7		P	80 - 120
Ethion	92.0		P	80 - 120
Ethoprop	98.9		P	80 - 120
Etridiazole	97.7		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A113248
Included Lab Sample IDs: 2337360

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fenamiphos	94.1		P	80 - 120
Fenbuconazole	96.8		P	80 - 120
Fipronil	96.3		P	80 - 120
Fipronil Desulfinyl	95.9		P	80 - 120
Fipronil Sulfide	80.7		P	80 - 120
Fipronil Sulfone	100		P	80 - 120
Fluazifop-P-butyl	94.8		P	80 - 120
Fludioxonil	87.1		P	80 - 120
Flumioxazin	90.3		P	80 - 120
Flutolanil	101		P	80 - 120
Fluxapyroxad	102		P	80 - 120
Fonofos	83.5		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	96.3		P	80 - 120
Iprodione	98.6		P	80 - 120
Loratadine	104		P	80 - 120
Malathion	94.6		P	80 - 120
Metalaxyl	94.7		P	80 - 120
Metolachlor	104		P	80 - 120
Metribuzin	101		P	80 - 120
Mevinphos	96.3		P	80 - 120
Molinate	95.5		P	80 - 120
Myclobutanil	102		P	80 - 120
Naled	96.0		P	80 - 120
Napropamide	87.6		P	80 - 120
Norflurazon	94.0		P	80 - 120
Oxadiazon	98.9		P	80 - 120
Oxyfluorfen	87.9		P	80 - 120
Parathion Ethyl	102		P	80 - 120
Parathion Methyl	96.9		P	80 - 120
Pendimethalin	96.5		P	80 - 120
Phenytoin	94.3		P	80 - 120
Phorate	92.8		P	80 - 120
Prodiamine	99.6		P	80 - 120
Prometon	98.6		P	80 - 120
Prometryn	98.6		P	80 - 120
Pronamide	101		P	80 - 120
Propanil	109		P	80 - 120
Propargite	107		P	80 - 120
Propiconazole	93.4		P	80 - 120
Pyraflufen Ethyl	107		P	80 - 120
Pyridaben	91.2		P	80 - 120
Pyriproxyfen	107		P	80 - 120
Simazine	89.9		P	80 - 120
Stirophos	84.8		P	80 - 120
Sulfentrazone	99.1		P	80 - 120
Tebuconazole	90.7		P	80 - 120
Terbufos	87.3		P	80 - 120
Terbuthylazine	93.0		P	80 - 120
Thiobencarb	110		P	80 - 120
Triadimefon	100		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A113278

Included Lab Sample IDs: 2337336, 2337337, 2337338, 2337339

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A113282

Included Lab Sample IDs: 2337329, 2337335

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	99.5	P/P	90 - 110
Total-P	98.5	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A113333

Included Lab Sample IDs: 2337329, 2337337, 2337338, 2337339

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	99.0	P/P	90 - 110
Kjeldahl Nitrogen	105	101	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A113368

Included Lab Sample IDs: 2337328, 2337330, 2337331, 2337332, 2337333, 2337334

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A113410

Included Lab Sample IDs: 2337329, 2337335, 2337336, 2337337, 2337338, 2337339

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	107	108	P/P	90 - 110
NO2NO3-N	110	109	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A113574

Included Lab Sample IDs: 2337359

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	100		P	80 - 120
Alpha-BHC	99.0		P	80 - 120
Alpha-Chlordane	116		P	80 - 120
Beta-BHC	99.7		P	80 - 120
Beta-Cyfluthrin	95.1		P	80 - 120
Bifenthrin	99.0		P	80 - 120
Chlorothalonil	92.5		P	80 - 120
Cis-Nonachlor	98.4		P	80 - 120
Cypermethrin	89.3		P	80 - 120
Dacthal	107		P	80 - 120
DDD-p,p'	89.3		P	80 - 120
DDE-p,p'	107		P	80 - 120
DDT-p,p'	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A113574
Included Lab Sample IDs: 2337359

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Delta-BHC	94.6		P	80 - 120
Deltamethrin	94.8		P	80 - 120
Dichlobenil	105		P	80 - 120
Dicofol	108		P	80 - 120
Dieldrin	103		P	80 - 120
Endosulfan I	104		P	80 - 120
Endosulfan II	91.2		P	80 - 120
Endosulfan Sulfate	96.1		P	80 - 120
Endrin	91.7		P	80 - 120
Endrin Aldehyde	85.4		P	80 - 120
Endrin Ketone	103		P	80 - 120
Esfenvalerate	86.0		P	80 - 120
Ethalfuralin	98.6		P	80 - 120
Fenpropathrin	98.8		P	80 - 120
Gamma-BHC	99.0		P	80 - 120
Gamma-Chlordane	110		P	80 - 120
Heptachlor	97.4		P	80 - 120
Heptachlor Epoxide	109		P	80 - 120
Hexachlorobenzene	99.0		P	80 - 120
Kepone	86.1		P	80 - 120
Lambda-Cyhalothrin	99.4		P	80 - 120
Methoprene	98.9		P	80 - 120
Methoxychlor	103		P	80 - 120
MGK-264	101		P	80 - 120
Mirex	98.7		P	80 - 120
Oxychlordane	104		P	80 - 120
Permethrin	94.2		P	80 - 120
Phenothrin	90.4		P	80 - 120
Piperonyl Butoxide	96.4		P	80 - 120
Prallethrin	92.2		P	80 - 120
Tau-Fluvalinate	94.8		P	80 - 120
Tetramethrin	95.3		P	80 - 120
Trans-Nonachlor	116		P	80 - 120
Triclosan Methyl	107		P	80 - 120
Trifluralin	99.7		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	97.4				0.473	
EPA 180.1 Rev. 2.0	Turbidity	97.1				5.22	
EPA 200.7 Rev. 4.4	Calcium	105	104				1.17
	Iron	104	104	104			0.0619
	Magnesium	105	104	104			0.428
	Potassium	106	105	104			0.665
	Sodium	100	99.6				0.132
	Strontium	102	101	101			0.207
	Tin	105	98.4	99.5			1.16
	Titanium	104	101	101			0.138
	Vanadium	95.7	95.9	96.1			0.185
	Zinc	102	97.6	98.1			0.539
EPA 200.8 Rev. 5.4	Aluminum	102	98.9	95.6			3.39
	Antimony	103	105	101			3.58
	Arsenic	99.1	99.0	95.8			3.31
	Barium	105	103	99.8			2.74
	Beryllium	99.2	96.8	94.3			2.60
	Boron	106	105	99.6			4.42
	Cadmium	99.8	103	99.1			3.42
	Chromium	102	103	98.2			4.12
	Cobalt	103	103	99.0			3.51
	Copper	102	97.1	93.3			4.04
	Lead	95.7	95.5	92.3			3.35
	Manganese	104	106	101			4.15
	Molybdenum	99.9	103	98.4			4.17
	Nickel	101	101	97.6			3.56
	Selenium	98.6	95.5	95.6			0.0966
	Silver	99.4	96.7	95.9			0.736
	Thallium	98.9	101	98.2			2.90
EPA 300.0 Rev. 2.1	Chloride	99.5	98.8	99.5		0.167	
	Sulfate	99.4	93.5	96.6		0.0716	
EPA 350.1 Rev. 2.0	Ammonia-N	100	98.6	101			2.21
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	95.2	103	95.9			6.52
	Kjeldahl Nitrogen	107	97.6	101			2.25
EPA 353.2 Rev. 2.0	NO2NO3-N	104	99.8				0.937
	NO2NO3-N	104	104	107			1.90
EPA 365.1 Rev. 2.0	Total-P	103	103	104			1.03
EPA 8270E	Acetochlor	105	99.8	87.0			13.7
	Alachlor	106	97.4	84.4			14.2
	Aldrin	68.3	66.4	68.2			2.59
	Alpha-BHC	104	101	99.7			1.43
	Alpha-Chlordane	102	92.6	85.3			6.65
	Ametryn	93.7	107	101			6.42
	Atrazine	107					2.19
	Atrazine Desethyl	79.8	85.5	76.8			10.8
	Azinphos Methyl	150	153	149			2.64
	Azoxystrobin	134	112	103			8.64
	Beta-BHC	125	118	116			1.86
	Beta-Cyfluthrin	88.3	81.9	97.7			17.6
	Bifenthrin	72.5	69.4	79.0			13.0
	Bromacil	75.9	97.9	87.9			10.7
	Butylate	73.6	45.8	34.8			27.3
	Caffeine	59.3	85.4	88.9			4.01
	Carbophenothion	101	110	98.2			11.8

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Carfentrazone Ethyl	103	115	94.4		19.9
	Chlorfenapyr	57.2	90.9	73.8		20.8
	Chlorothalonil	88.1	127	110		14.1
	Chlorpyrifos Ethyl	69.1	86.3	77.9		10.3
	Chlorpyrifos Methyl	76.4	84.0	71.7		15.8
	Cis-Nonachlor	71.5	74.5	73.7		1.12
	Coumaphos	65.6	112	96.6		14.3
	Cyanazine	110	103	89.2		14.1
	Cypermethrin	88.3	80.2	85.0		5.81
	Cyprodinil	83.2	98.5	85.3		14.4
	Dacthal	101	102	95.0		7.26
	DDD-p,p'	67.6	70.8	66.9		5.78
	DDE-p,p'	97.9	88.6	84.9		4.28
	DDT-p,p'	82.2	77.8	80.0		2.75
	Delta-BHC	117	113	109		3.14
	Deltamethrin	94.1	96.3	116		18.2
	Demeton	82.4	73.2	65.2		11.6
	Diazinon	112	101	85.7		16.7
	Dichlobenil	103	101	94.8		5.99
	Dicofol	78.0	72.1	80.0		10.4
	Dieldrin	96.4	85.6	78.1		7.86
	Difenoconazole	72.9	143	129		9.89
	Dimethenamid	86.7	85.0	72.5		14.8
	Dimethomorph	192	95.9	88.8		7.68
	Disulfoton	86.4	84.1	74.5		12.1
	Dithiopyr	99.5	97.7	83.4		15.8
	Endosulfan I	103	93.1	85.6		8.41
	Endosulfan II	76.0	81.4	75.2		7.88
	Endosulfan Sulfate	84.0	86.2	87.0		0.852
	Endrin	73.3	76.9	71.2		7.76
	Endrin Aldehyde	72.9	65.2	57.0		13.3
	Endrin Ketone	88.1	88.5	89.8		1.44
	EPTC	68.0	39.2	28.1		32.9
	Esfenvalerate	80.2	79.8	98.2		20.6
	Ethalfuralin	86.9	83.7	80.8		3.55
	Ethion	69.6	81.8	68.4		17.9
	Ethoprop	96.3	97.4	82.4		16.7
	Etridiazole	86.1	51.3	38.5		28.3
	Fenamiphos	61.0	98.0	85.5		13.6
	Fenbuconazole	88.6	111	94.1		16.5
	Fenpropathrin	83.3	79.5	85.8		7.61
	Fipronil	101	115	97.6		16.8
	Fipronil Desulfinyl	106	120	97.5		20.8
	Fipronil Sulfide	76.4	95.8	82.4		15.0
	Fipronil Sulfone	99.0	105	96.3		8.84
	Fluazifop-P-butyl	99.7	122	111		9.34
	Fludioxonil	74.1	95.3	80.7		16.6
	Flumioxazin	110	174	155		11.2
	Flutolanil	84.7	116	94.9		19.6
	Fluxapyroxad	48.4	114	103		9.79
	Fonofos	70.2	80.7	79.4		1.66
	Gamma-BHC	114	107	105		2.01
	Gamma-Chlordane	93.0	85.7	80.4		5.39
	Heptachlor	84.4	75.2	70.6		6.25

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Heptachlor Epoxide	102	98.1	91.8			4.60
	Hexachlorobenzene	83.9	84.4	80.9			4.27
	Hexazinone	90.6	110	97.0			12.8
	Imazalil	65.4	72.4	66.4			8.74
	Iprodione	92.6	118	102			14.5
	Kepone	44.9	39.4	16.8			37.0
	Lambda-Cyhalothrin	77.8	77.6	89.8			14.6
	Loratadine	204	96.6	91.9			5.01
	Malathion	83.6	113	99.7			12.7
	Metalaxyl	90.4	94.8	86.1			9.71
	Methoprene	83.8	71.8	74.3			3.37
	Methoxychlor	96.7	89.8	96.6			7.31
	Metolachlor	79.3	102	91.0			8.54
	Metribuzin	111	97.9	86.0			12.9
	Mevinphos	91.2	86.3	73.7			15.7
	MGK-264	98.0	90.9	92.6			1.77
	Mirex	66.2	62.2	67.3			7.79
	Molinate	82.5	60.6	51.6			16.1
	Myclobutanil	105	113	101			11.0
	Naled	85.4	87.7	76.3			14.0
	Napropamide	49.4	82.2	70.9			14.9
	Norflurazon	87.2	93.6	83.7			11.2
	Oxadiazon	67.3	90.6	81.7			10.3
	Oxychlordane	87.4	85.5	80.9			5.57
	Oxyfluorfen	75.4	122	108			12.4
	Parathion Ethyl	90.6	96.9	86.0			11.9
	Parathion Methyl	126	117	101			14.8
	Pendimethalin	114	106	96.2			9.58
	Permethrin	87.7	79.7	94.7			17.2
	Phenothrin	68.9	66.9	80.9			18.9
	Phenytol	34.7	116	104			11.5
	Phorate	74.5	69.7	62.0			11.7
	Piperonyl Butoxide	138	137	123			10.8
	Prallethrin	98.1	87.4	86.1			1.57
	Prodiamine	101	74.7	63.4			16.4
	Prometon	79.9	90.0	82.3			8.90
	Prometryn	81.3	96.2	81.5			16.6
	Pronamide	110	123	116			6.14
	Propanil	103	139	115			18.9
	Propargite	161	93.4	71.7			26.2
	Propiconazole	79.4	85.7	79.4			7.70
	Pyraflufen Ethyl	91.4	106	87.0			19.7
	Pyridaben	75.0	111	102			8.63
	Pyriproxyfen	49.6	104	87.8			16.4
	Simazine	101	104	88.7			15.8
	Stirophos	87.1	78.1	62.4			22.3
	Sulfentrazone	103	114	99.2			13.8
	Tau-Fluvalinate	80.4	83.3	99.8			18.0
	Tebuconazole	16.8	70.9	55.7			22.5
	Terbufos	94.8	95.7	81.2			16.4
	Terbuthylazine	93.4	97.4	83.3			15.6
	Tetramethrin	97.3	98.2	116			16.3
	Thiobencarb	107	114	97.3			15.6
	Trans-Nonachlor	94.6	91.0	91.4			0.442

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Triadimefon	83.2	103	86.4			17.4
	Triclosan Methyl	102	93.1	83.8			10.5
	Trifluralin	84.4	90.3	79.7			12.5
EPA 8276	Chlordane	102	106	98.0			7.10
	Toxaphene	121	147	127			14.9
EPA 8321B	2,4-D	52.9	50.1	66.5			24.9
	2,4,5-T	44.6	39.2	39.5			0.782
	3-Hydroxycarbofuran	71.9	85.1	89.0			4.49
	Acesulfame K	98.8	101	101			0.243
	Acetaminophen	83.1	92.2	98.3			6.40
	Acetamiprid	78.4	69.3	82.3			17.2
	Afidopyropen	45.0	50.1	63.1			23.0
	Aldicarb	60.4	53.1	73.7			32.5
	Aldicarb Sulfone	85.5	95.1	98.2			3.21
	Aldicarb Sulfoxide	83.8	49.6	53.5			7.56
	AMPA	102	95.0	97.0			2.06
	Bentazon	70.8	47.7	47.0			1.60
	Benzovindiflupyr	87.2	84.4	89.3			5.59
	Carbamazepine	83.5	79.4	85.7			7.66
	Carbaryl	75.0	73.0	80.5			9.70
	Carbofuran	82.1	78.1	82.0			4.77
	Clothianidin	89.4	96.5	111			13.6
	Dinotefuran	90.8	120	133			10.5
	Diuron	66.8	58.7	56.6			3.77
	Endothall	94.6	96.0	96.6			0.564
	Fenuron	90.2	79.6	89.6			11.8
	Fluridone	80.6	68.0	79.9			16.0
	Glufosinate	95.1	87.6	85.2			2.77
	Glyphosate	102	78.8	84.4			6.86
	Hydrocodone	81.9	90.6	95.8			5.66
	Ibuprofen	60.5	72.4	67.9			6.46
	Imazapyr	88.0	73.0	79.6			8.65
	Imidacloprid	87.9	121	127			4.87
	Linuron	66.8	68.2	77.1			12.3
	Mandestrobin	72.4	68.2	75.2			9.76
	MCPP	69.4	63.8	69.1			7.99
	Methiocarb	72.1	75.0	78.4			4.43
	Methomyl	74.3	77.8	84.0			7.61
	Naproxen	42.9	51.3	60.8			16.9
	Oxamyl	81.7	86.1	88.0			2.17
	Primidone	92.2	94.7	110			14.9
	Propoxur	68.6	72.2	66.9			7.52
	Pyraclostrobin	72.5	74.5	82.8			10.5
	Silvex	42.7	49.3	47.4			3.94
	Sucralose	98.5	101	101			0.137
	Thiamethoxam	83.8	115	127			10.0
	Tolfenpyrad	43.0	44.9	46.7			3.87
	Triclopyr	51.2	48.1	50.0			3.81
SM 2320 B-2011	Total Alkalinity	101				0.617	
SM 2540 C-2011	TDS					2.52	
SM 4500-F- C-2011	Fluoride	103	102	101			0.480
SM 5310 B-2011	Organic Carbon	95.6	99.4	99.6			0.192

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2337328, 2337330, 2337331, 2337332, 2337333, 2337334
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2337328, 2337330, 2337331, 2337332, 2337333, 2337334
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2337361, 2337362, 2337363, 2337364, 2337365, 2337366
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2337361, 2337362, 2337363, 2337364, 2337365, 2337366
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2337328
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2337328, 2337330, 2337331, 2337332, 2337333, 2337334
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2337329, 2337335, 2337336, 2337337, 2337338, 2337339
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2337329, 2337335, 2337336, 2337337, 2337338, 2337339
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2337329, 2337335, 2337336, 2337337, 2337338, 2337339
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2337329, 2337335, 2337336, 2337337, 2337338, 2337339
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2337359
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2337360
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2337359
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2337357
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2337358
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2337328, 2337330, 2337331, 2337332, 2337333, 2337334
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2337361, 2337362, 2337363, 2337364, 2337365, 2337366
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2337328, 2337330, 2337331, 2337332, 2337333, 2337334
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2337328, 2337330, 2337331, 2337332, 2337333, 2337334
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2337328, 2337330, 2337331, 2337332, 2337333, 2337334
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2337329, 2337335, 2337336, 2337337, 2337338, 2337339

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	06/27/2022			06/28/2022 14:59	Samantha L Bates	2337328
	06/27/2022			06/28/2022 15:00	Samantha L Bates	2337330
	06/27/2022			06/28/2022 15:01	Samantha L Bates	2337331
	06/27/2022			06/28/2022 15:02	Samantha L Bates	2337332, 2337333
	06/27/2022			06/28/2022 15:03	Samantha L Bates	2337334
EPA 180.1 Rev. 2.0	06/27/2022			06/28/2022 14:19	Anna M. Plaviak	2337328
	06/27/2022			06/28/2022 14:20	Anna M. Plaviak	2337330
	06/27/2022			06/28/2022 14:22	Anna M. Plaviak	2337331
	06/27/2022			06/28/2022 14:23	Anna M. Plaviak	2337332
	06/27/2022			06/28/2022 14:24	Anna M. Plaviak	2337333, 2337334
EPA 200.7 Rev. 4.4	06/27/2022	06/28/2022 09:00	Mackenzie Hunt	06/28/2022 16:03	McKinley C Carter	2337361
	06/27/2022	06/28/2022 09:00	Mackenzie Hunt	06/28/2022 16:34	McKinley C Carter	2337362
	06/27/2022	06/28/2022 09:00	Mackenzie Hunt	06/28/2022 16:42	McKinley C Carter	2337363
	06/27/2022	06/28/2022 09:00	Mackenzie Hunt	06/28/2022 16:49	McKinley C Carter	2337364
	06/27/2022	06/28/2022 09:00	Mackenzie Hunt	06/28/2022 16:57	McKinley C Carter	2337365
EPA 200.8 Rev. 5.4	06/27/2022	06/28/2022 09:00	Mackenzie Hunt	06/28/2022 17:03	McKinley C Carter	2337366
	06/27/2022	06/28/2022 09:00	Mackenzie Hunt	06/28/2022 19:31	Emily M Philpot	2337364
	06/27/2022	06/28/2022 09:00	Mackenzie Hunt	06/28/2022 19:40	Emily M Philpot	2337365
	06/27/2022	06/28/2022 09:00	Mackenzie Hunt	06/28/2022 19:49	Emily M Philpot	2337366
	06/27/2022	06/28/2022 09:00	Mackenzie Hunt	06/28/2022 21:02	Emily M Philpot	2337361
EPA 300.0 Rev. 2.1	06/27/2022	06/28/2022 09:00	Mackenzie Hunt	06/28/2022 21:11	Emily M Philpot	2337362
	06/27/2022	06/28/2022 09:00	Mackenzie Hunt	06/28/2022 21:20	Emily M Philpot	2337363
	06/27/2022			07/01/2022 20:38	Anna M. Plaviak	2337328
	06/27/2022			07/01/2022 20:50	Anna M. Plaviak	2337330
	06/27/2022			07/01/2022 21:02	Anna M. Plaviak	2337331
EPA 350.1 Rev. 2.0	06/27/2022			07/01/2022 21:14	Anna M. Plaviak	2337332
	06/27/2022			07/01/2022 21:26	Anna M. Plaviak	2337333
	06/27/2022			07/01/2022 22:03	Anna M. Plaviak	2337334
	06/27/2022			06/29/2022 15:38	Judith K. Clark	2337329
	06/27/2022			06/29/2022 15:39	Judith K. Clark	2337335
EPA 351.2 Rev. 2.0	06/27/2022			06/29/2022 15:41	Judith K. Clark	2337336
	06/27/2022			06/29/2022 15:42	Judith K. Clark	2337337
	06/27/2022			06/29/2022 15:43	Judith K. Clark	2337338
	06/27/2022			06/29/2022 15:45	Judith K. Clark	2337339
	06/27/2022	06/30/2022 14:06	Samantha L Bates	07/01/2022 13:04	Alexandra J Mattheus	2337335
	06/27/2022	06/30/2022 14:06	Samantha L Bates	07/01/2022 13:09	Alexandra J Mattheus	2337336
	06/27/2022	07/05/2022 14:05	Simonne.V. Calhoun	07/07/2022 11:40	Alexandra J Mattheus	2337329
	06/27/2022	07/05/2022 14:05	Simonne.V. Calhoun	07/07/2022 11:48	Alexandra J Mattheus	2337337
	06/27/2022	07/05/2022 14:05	Simonne.V. Calhoun	07/07/2022 11:50	Alexandra J Mattheus	2337338
	06/27/2022	07/05/2022 14:05	Simonne.V. Calhoun	07/07/2022 11:52	Alexandra J Mattheus	2337339

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 353.2 Rev. 2.0	06/27/2022			07/08/2022 16:11	Touraj Touran	2337336
	06/27/2022			07/08/2022 16:17	Touraj Touran	2337335
	06/27/2022			07/08/2022 16:18	Touraj Touran	2337337
	06/27/2022			07/08/2022 16:19	Touraj Touran	2337338
	06/27/2022			07/08/2022 16:21	Touraj Touran	2337339
	06/27/2022			07/08/2022 17:31	Touraj Touran	2337329
EPA 365.1 Rev. 2.0	06/27/2022	07/01/2022 16:41	Simonne.V. Calhoun	07/05/2022 11:37	James L Waggeberby	2337336
	06/27/2022	07/01/2022 16:41	Simonne.V. Calhoun	07/05/2022 11:38	James L Waggeberby	2337337
	06/27/2022	07/01/2022 16:41	Simonne.V. Calhoun	07/05/2022 11:39	James L Waggeberby	2337338
	06/27/2022	07/01/2022 16:41	Simonne.V. Calhoun	07/05/2022 11:40	James L Waggeberby	2337339
	06/27/2022	07/01/2022 16:41	Simonne.V. Calhoun	07/05/2022 16:09	James L Waggeberby	2337329
	06/27/2022	07/01/2022 16:41	Simonne.V. Calhoun	07/05/2022 16:17	James L Waggeberby	2337335
EPA 8270E	06/27/2022	06/30/2022 16:30	Rasheda Ghaffari	07/02/2022 23:41	Michael Poppell	2337360
	06/27/2022	07/13/2022 08:00	Fe-Val Siddell	07/17/2022 23:03	Michael Poppell	2337359
EPA 8276	06/27/2022	07/13/2022 08:00	Fe-Val Siddell	07/20/2022 09:15	Julie Wi	2337359
EPA 8321B	06/27/2022	06/28/2022 09:30	June Rhew	06/29/2022 03:22	Juyoung Kim	2337358
	06/27/2022	06/28/2022 15:00	June Rhew	06/28/2022 19:46	Juyoung Kim	2337357
	06/27/2022	06/29/2022 11:30	Umesh Chiluwal	06/29/2022 15:32	Umesh Chiluwal	2337358
	06/27/2022	06/29/2022 11:30	Umesh Chiluwal	06/30/2022 02:20	Umesh Chiluwal	2337358
SM 2320 B-2011	06/27/2022			06/29/2022 17:42	Dale L. Simmons	2337328
	06/27/2022			06/29/2022 17:56	Dale L. Simmons	2337330
	06/27/2022			06/29/2022 18:09	Dale L. Simmons	2337331
	06/27/2022			06/29/2022 18:21	Dale L. Simmons	2337332
	06/27/2022			06/29/2022 18:33	Dale L. Simmons	2337333
	06/27/2022			06/29/2022 19:21	Dale L. Simmons	2337334
SM 2340 B-2011	06/27/2022			06/28/2022 16:03	McKinley C Carter	2337361
	06/27/2022			06/28/2022 16:34	McKinley C Carter	2337362
	06/27/2022			06/28/2022 16:42	McKinley C Carter	2337363
	06/27/2022			06/28/2022 16:49	McKinley C Carter	2337364
	06/27/2022			06/28/2022 16:57	McKinley C Carter	2337365
	06/27/2022			06/28/2022 17:03	McKinley C Carter	2337366
SM 2540 C-2011	06/27/2022			06/28/2022 16:31	Yijie Li	2337328, 2337330, 2337331, 2337332, 2337333, 2337334
SM 2540 D-2011	06/27/2022			06/28/2022 16:31	Yijie Li	2337328, 2337330, 2337331, 2337332, 2337333, 2337334
SM 4500-F- C-2011	06/27/2022			07/07/2022 23:53	Dale L. Simmons	2337328
	06/27/2022			07/07/2022 23:58	Dale L. Simmons	2337330
	06/27/2022			07/08/2022 00:03	Dale L. Simmons	2337331
	06/27/2022			07/08/2022 00:09	Dale L. Simmons	2337332
	06/27/2022			07/08/2022 00:14	Dale L. Simmons	2337333

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 4500-F- C-2011	06/27/2022			07/08/2022 00:19	Dale L. Simmons	2337334
SM 5310 B-2011	06/27/2022			06/29/2022 16:13	Khloe J Berg	2337329
	06/27/2022			06/29/2022 16:27	Khloe J Berg	2337335
	06/27/2022			06/29/2022 16:44	Khloe J Berg	2337336
	06/27/2022			06/29/2022 16:58	Khloe J Berg	2337337
	06/27/2022			06/29/2022 17:19	Khloe J Berg	2337338
	06/27/2022			06/29/2022 17:32	Khloe J Berg	2337339