Chemical Analysis Report

TLH-ROC-2022-08-02-01

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

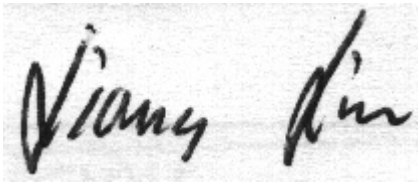
Event Description: **Run 18**
Request ID: **RQ-2022-07-25-19**
Customer: **TLH-ROC**
Project ID: **SMP**

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: Liang Lin, Environmental Administrator

Date Certified: 23-AUG-2022 17:55



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: Lewis Creek upstream Hwy157 **Collection Date/Time: 08/02/2022 09:40**

Field ID: G1TLHR0159 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345198	DEP SOP: NU-094-1	Color (true)	61	A	PCU	P417576	
	EPA 180.1 Rev. 2.0	Turbidity	5.7	A	NTU	P417587	
	EPA 300.0 Rev. 2.1	Chloride	6.1		mg Cl/L	P417882	
		Sulfate	0.23	I	mg SO4/L	P417887	
	SM 2320 B-2011	Total Alkalinity	14		mg CaCO3/L	P417841	
	SM 2540 C-2011	TDS	50		mg/L	P417986	
	SM 2540 D-2011	TSS	6	I	mg/L	P418065	
	SM 4500-F- C-2011	Fluoride	0.072	I	mg F/L	P417846	
2345199	EPA 350.1 Rev. 2.0	Ammonia-N	0.059		mg N/L	P417771	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.60		mg N/L	P417677	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.072		mg N/L	P417649	
	EPA 365.1 Rev. 2.0	Total-P	0.058		mg P/L	P417738	
	SM 5310 B-2011	Organic Carbon	8.4		mg C/L	P417762	
2345247	EPA 200.7 Rev. 4.4	Calcium	5.19		mg/L	P417540	
		Iron	960		ug/L	P417540	
		Magnesium	1.95		mg/L	P417540	
		Potassium	0.36	I	mg/L	P417540	
		Sodium	3.6		mg/L	P417540	
		Strontium	18.6		ug/L	P417540	
		Tin	3.0	U	ug/L	P417540	
		Titanium	2.1	I	ug/L	P417540	
		Vanadium	2.0	U	ug/L	P417540	
		Zinc	5.0	U	ug/L	P417540	
	EPA 200.8 Rev. 5.4	Aluminum	115		ug/L	P417540	
		Antimony	0.050	U	ug/L	P417540	
		Arsenic	0.77		ug/L	P417540	
		Barium	13.1		ug/L	P417540	
		Beryllium	0.010	I	ug/L	P417540	
		Boron	14.9		ug/L	P417540	
		Cadmium	0.020	U	ug/L	P417540	
		Chromium	0.40	U	ug/L	P417540	
		Cobalt	0.076	I	ug/L	P417540	
		Copper	0.40	U	ug/L	P417540	
		Lead	0.20	U	ug/L	P417540	
		Manganese	73.6		ug/L	P417540	
		Molybdenum	0.15	U	ug/L	P417540	
		Nickel	0.50	U	ug/L	P417540	
		Selenium	0.20	U	ug/L	P417540	
		Silver	0.010	U	ug/L	P417540	
		Thallium	0.10	U	ug/L	P417540	
	SM 2340 B-2011	Hardness	21.0		mg/L	P417540	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Beaver Creek **Collection Date/Time: 08/02/2022 10:30**

Field ID: G1TLHR0165 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345200	DEP SOP: NU-094-1	Color (true)	50		PCU	P417576	
	EPA 180.1 Rev. 2.0	Turbidity	5.6		NTU	P417587	
	EPA 300.0 Rev. 2.1	Chloride	11		mg Cl/L	P417882	
		Sulfate	2.2		mg SO4/L	P417887	
	SM 2320 B-2011	Total Alkalinity	34		mg CaCO3/L	P417841	
	SM 2540 C-2011	TDS	75		mg/L	P417986	
	SM 2540 D-2011	TSS	2	I	mg/L	P418065	
	SM 4500-F- C-2011	Fluoride	0.083	I	mg F/L	P417846	
2345204	EPA 350.1 Rev. 2.0	Ammonia-N	0.020		mg N/L	P417659	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.32		mg N/L	P417677	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.52		mg N/L	P417649	
	EPA 365.1 Rev. 2.0	Total-P	0.064		mg P/L	P417738	
	SM 5310 B-2011	Organic Carbon	4.1		mg C/L	P417762	
2345233	EPA 8321B	2,4-D	0.0020	U	ug/L	P417606	
		Acesulfame K	0.10	U	ug/L	P417520	
		2,4,5-T	0.0040	U	ug/L	P417606	
		AMPA	0.10	U	ug/L	P417520	
		Acetaminophen	0.0080	U	ug/L	P417606	
		Acetamiprid	0.0020	U	ug/L	P417606	
		Endothall	0.25	U	ug/L	P417520	
		Glufosinate	0.10	U	ug/L	P417520	
		Glyphosate	0.10	U	ug/L	P417520	
		Afidopyropen	0.0020	U	ug/L	P417606	
		Bentazon	8.0E-04	U	ug/L	P417606	
		Sucralose	0.33		ug/L	P417520	
		Benzovindiflupyr	0.0020	U	ug/L	P417606	
		Carbamazepine	8.0E-04	U	ug/L	P417606	
		Clothianidin	0.0020	U	ug/L	P417606	
		Dinotefuran	0.0020	U	ug/L	P417606	
		Diuron	0.0020	U	ug/L	P417606	
		Fenuron	0.032	U	ug/L	P417606	
		Fluridone	0.0034		ug/L	P417606	
		Imazapyr	0.0040	U	ug/L	P417606	
		Hydrocodone	0.0020	U	ug/L	P417606	
		Ibuprofen	0.080	U	ug/L	P417606	
		Imidacloprid	0.0036	I	ug/L	P417606	
		Linuron	0.0040	U	ug/L	P417606	
		Mandestrobin	0.0020	U	ug/L	P417606	
		MCPP	0.0040	U	ug/L	P417606	
		Naproxen	0.0080	U	ug/L	P417606	
		Primidone	0.0040	U	ug/L	P417606	
		Pyraclostrobin	0.0020	U	ug/L	P417606	
		Silvex	0.0040	U	ug/L	P417606	
		Thiamethoxam	0.0020	U	ug/L	P417606	

Field ID: G1TLHR0165 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345233	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P417606	
		Triclopyr	0.0040	U	ug/L	P417606	
2345248	EPA 200.7 Rev. 4.4	Calcium	12.7		mg/L	P417540	
		Iron	610		ug/L	P417540	
		Magnesium	2.73		mg/L	P417540	
		Potassium	0.51	I	mg/L	P417540	
		Sodium	6.3		mg/L	P417540	
		Strontium	29.7		ug/L	P417540	
		Tin	3.0	U	ug/L	P417540	
		Titanium	5.9		ug/L	P417540	
		Vanadium	2.0	U	ug/L	P417540	
		Zinc	5.0	U	ug/L	P417540	
	EPA 200.8 Rev. 5.4	Aluminum	230		ug/L	P417540	
		Antimony	0.050	U	ug/L	P417540	
		Arsenic	1.02		ug/L	P417540	
		Barium	18.9		ug/L	P417540	
		Beryllium	0.011	I	ug/L	P417540	
		Boron	13.3		ug/L	P417540	
		Cadmium	0.020	U	ug/L	P417540	
		Chromium	0.56	I	ug/L	P417540	
		Cobalt	0.057	I	ug/L	P417540	
		Copper	0.40	U	ug/L	P417540	
		Lead	0.20	U	ug/L	P417540	
		Manganese	11.8		ug/L	P417540	
		Molybdenum	0.15	U	ug/L	P417540	
		Nickel	0.50	U	ug/L	P417540	
		Selenium	0.20	U	ug/L	P417540	
		Silver	0.010	U	ug/L	P417540	
		Thallium	0.10	U	ug/L	P417540	
	SM 2340 B-2011	Hardness	43.0		mg/L	P417540	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 350.1 Rev. 2.0: Matrix spike recovery data is unavailable because of high analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8321B: MS accuracy for sucralose could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: Lake Tallavana Outlet **Collection Date/Time: 08/02/2022 11:00**

Field ID: G1TLHR0164 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345239	EPA 8321B	Aldicarb	0.020	U	ug/L	P417651	
		Aldicarb Sulfone	0.0020	U	ug/L	P417651	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P417651	MS
		Carbaryl	0.0020	U	ug/L	P417651	
		Carbofuran	0.0020	U	ug/L	P417651	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P417651	
		Methiocarb	0.0020	U	ug/L	P417651	
		Methomyl	0.0020	U	ug/L	P417651	
		Oxamyl	0.0020	U	ug/L	P417651	
		Propoxur	0.0020	U	ug/L	P417651	
2345243	EPA 8270E	Aldrin	0.67	U	ng/L	P417489	
		Alpha-BHC	0.10	U	ng/L	P417489	
		Alpha-Chlordane	0.21	U	ng/L	P417489	
		Beta-BHC	0.10	U	ng/L	P417489	
		Beta-Cyfluthrin	1.3	U	ng/L	P417489	
		Bifenthrin	0.52	U	ng/L	P417489	
		Chlorothalonil	1.3	U	ng/L	P417489	
		Cis-Nonachlor	0.21	U	ng/L	P417489	
		Cypermethrin	1.5	U	ng/L	P417489	
		Dacthal	0.15	U	ng/L	P417489	
		DDD-p,p'	0.26	U	ng/L	P417489	
		DDE-p,p'	0.21	U	ng/L	P417489	
		DDT-p,p'	0.26	U	ng/L	P417489	
		Delta-BHC	0.41	U	ng/L	P417489	
		Deltamethrin	1.3	U	ng/L	P417489	
		Dichlobenil	0.26	U	ng/L	P417489	
		Dicofol	1.3	U	ng/L	P417489	
		Dieldrin	0.41	U	ng/L	P417489	
		Endosulfan I	0.41	U	ng/L	P417489	
		Endosulfan II	0.41	U	ng/L	P417489	
		Endosulfan Sulfate	0.31	U	ng/L	P417489	MS
		Endrin	0.41	U	ng/L	P417489	
		Endrin Aldehyde	0.77	U	ng/L	P417489	
		Endrin Ketone	0.41	U	ng/L	P417489	
		Esfenvalerate	0.77	U	ng/L	P417489	
		Ethalfluralin	0.15	U	ng/L	P417489	
		Fenpropathrin	0.26	U	ng/L	P417489	
		Gamma-BHC	0.13	U	ng/L	P417489	
		Gamma-Chlordane	0.21	U	ng/L	P417489	
		Heptachlor	0.21	U	ng/L	P417489	
		Heptachlor Epoxide	0.26	U	ng/L	P417489	
		Hexachlorobenzene**	1.0	U	ng/L	P417489	
		Kepone	5.2	U	ng/L	P417489	
		Lambda-Cyhalothrin	0.77	U	ng/L	P417489	

Field ID: G1TLHR0164 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345243	EPA 8270E	Methoprene	0.77	U	ng/L	P417489	
		Methoxychlor	0.31	U	ng/L	P417489	
		MGK-264	0.21	U	ng/L	P417489	
		Mirex	0.36	U	ng/L	P417489	
		Oxychlordane	0.31	U	ng/L	P417489	
		Permethrin	1.7	U	ng/L	P417489	
		Phenothrin	0.93	U	ng/L	P417489	
		Piperonyl Butoxide	0.19	I	ng/L	P417489	
		Prallethrin	2.1	U	ng/L	P417489	
		Tau-Fluvalinate	0.26	U	ng/L	P417489	MS
		Tetramethrin	0.77	U	ng/L	P417489	
		Trans-Nonachlor	0.21	U	ng/L	P417489	
		Triclosan Methyl	0.15	U	ng/L	P417489	
		Trifluralin	0.21	U	ng/L	P417489	
	EPA 8276	Chlordane	2.6	U	ng/L	P417489	
		Toxaphene	15	U	ng/L	P417489	
2345244	EPA 8270E	Acetochlor	0.24	U	ng/L	P417604	
		Alachlor	0.24	U	ng/L	P417604	
		Ametryn	0.58	U	ng/L	P417604	
		Atrazine	0.24	U	ng/L	P417604	
		Atrazine Desethyl	1.5	U	ng/L	P417604	
		Azinphos Methyl	1.9	U	ng/L	P417604	
		Azoxystrobin	0.49	U	ng/L	P417604	
		Bromacil	0.49	U	ng/L	P417604	
		Butylate	0.39	U	ng/L	P417604	
		Caffeine**	7.3	U	ng/L	P417604	
		Carbophenothion	0.19	U	ng/L	P417604	
		Carfentrazone Ethyl	0.097	U	ng/L	P417604	
		Chlorfenapyr	0.17	U	ng/L	P417604	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P417604	
		Chlorpyrifos Methyl	0.049	U	ng/L	P417604	
		Coumaphos	0.49	U	ng/L	P417604	
		Cyanazine	3.2	U	ng/L	P417604	
		Cyprodinil	0.097	U	ng/L	P417604	
		Demeton	1.5	U	ng/L	P417604	
		Diazinon	0.12	U	ng/L	P417604	
		Difenoconazole	0.58	U	ng/L	P417604	
		Dimethenamid	0.097	U	ng/L	P417604	
		Dimethomorph	0.17	U	ng/L	P417604	
		Disulfoton	0.49	U	ng/L	P417604	
		Dithiopyr	0.17	U	ng/L	P417604	
		EPTC	1.2	U	ng/L	P417604	
		Ethion	0.15	UJ	ng/L	P417604	LCS
		Ethoprop	0.097	U	ng/L	P417604	
		Etridiazole	0.15	U	ng/L	P417604	

Field ID: G1TLHR0164 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345244	EPA 8270E	Fenamiphos	0.49	U	ng/L	P417604	
		Fenbuconazole	0.12	U	ng/L	P417604	
		Fipronil	0.24	U	ng/L	P417604	
		Fipronil Desulfinyl**	0.12	U	ng/L	P417604	
		Fipronil Sulfide	0.15	U	ng/L	P417604	
		Fipronil Sulfone	0.22	I	ng/L	P417604	
		Fluazifop-P-butyl	0.097	U	ng/L	P417604	
		Fludioxonil	0.12	U	ng/L	P417604	
		Flumioxazin	1.7	U	ng/L	P417604	
		Flutolanil	0.097	U	ng/L	P417604	
		Fluxapyroxad	0.097	U	ng/L	P417604	
		Fonofos	0.19	U	ng/L	P417604	
		Hexazinone	0.49	U	ng/L	P417604	
		Imazalil	0.73	U	ng/L	P417604	
		Iprodione	0.58	U	ng/L	P417604	
		Loratadine**	0.097	U	ng/L	P417604	MS
		Malathion	0.34	U	ng/L	P417604	
		Metalaxyl	0.73	U	ng/L	P417604	
		Metolachlor	0.37	I	ng/L	P417604	
		Metribuzin	2.4	U	ng/L	P417604	
		Mevinphos	1.0	U	ng/L	P417604	
		Molinate	0.29	U	ng/L	P417604	
		Myclobutanil	0.24	U	ng/L	P417604	
		Naled	1.5	U	ng/L	P417604	
		Napropamide	0.39	U	ng/L	P417604	
		Norflurazon	0.49	U	ng/L	P417604	
		Oxadiazon	0.29	U	ng/L	P417604	
		Oxyfluorfen	0.15	U	ng/L	P417604	
		Parathion Ethyl	0.24	U	ng/L	P417604	
		Parathion Methyl	0.53	U	ng/L	P417604	
		Pendimethalin	0.97	U	ng/L	P417604	
		Phenytoin**	3.4	U	ng/L	P417604	MS
		Phorate	0.51	U	ng/L	P417604	
		Prodiamine	0.17	U	ng/L	P417604	
		Prometon	0.87	U	ng/L	P417604	
		Prometryn	0.19	U	ng/L	P417604	
		Pronamide	0.15	U	ng/L	P417604	
		Propanil	0.12	U	ng/L	P417604	
		Propargite	1.5	UJ	ng/L	P417604	LCS
		Propiconazole	0.49	U	ng/L	P417604	
		Pyraflufen Ethyl	0.24	U	ng/L	P417604	
		Pyridaben	0.44	U	ng/L	P417604	
		Pyriproxyfen	0.12	U	ng/L	P417604	
		Simazine	0.49	U	ng/L	P417604	
		Stirophos	0.12	U	ng/L	P417604	

Field ID: G1TLHR0164 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345244	EPA 8270E	Sulfentrazone	0.49	U	ng/L	P417604	
		Tebuconazole	0.49	U	ng/L	P417604	
		Terbufos	0.097	U	ng/L	P417604	
		Terbuthylazine	0.41	U	ng/L	P417604	
		Thiobencarb	0.58	U	ng/L	P417604	
		Triadimefon	0.24	U	ng/L	P417604	

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

Sample Location: Hurricane Creek upstream Lake Tallavana **Collection Date/Time: 08/02/2022 11:35**

Field ID: G1TLHR0160 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345201	DEP SOP: NU-094-1	Color (true)	32		PCU	P417576	
	EPA 180.1 Rev. 2.0	Turbidity	2.5		NTU	P417587	
	EPA 300.0 Rev. 2.1	Chloride	25		mg Cl/L	P417882	
		Sulfate	77		mg SO4/L	P418025	MS
	SM 2320 B-2011	Total Alkalinity	96		mg CaCO3/L	P417841	
	SM 2540 C-2011	TDS	294	A	mg/L	P417986	
	SM 2540 D-2011	TSS	2	I A	mg/L	P418065	
	SM 4500-F- C-2011	Fluoride	0.33		mg F/L	P417846	
2345205	EPA 350.1 Rev. 2.0	Ammonia-N	1.1		mg N/L	P417659	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.8		mg N/L	P417714	
	EPA 353.2 Rev. 2.0	NO2NO3-N	3.1		mg N/L	P417649	
	EPA 365.1 Rev. 2.0	Total-P	1.6		mg P/L	P417738	
	SM 5310 B-2011	Organic Carbon	7.5		mg C/L	P417762	
2345234	EPA 8321B	2,4-D	0.0020	U	ug/L	P417606	
		Acesulfame K	0.10	U	ug/L	P417520	
		2,4,5-T	0.0040	U	ug/L	P417606	
		AMPA	16		ug/L	P417520	
		Acetaminophen	0.0080	U	ug/L	P417606	
		Acetamiprid	0.016		ug/L	P417606	
		Endothall	0.25	U	ug/L	P417520	
		Glufosinate	0.10	U	ug/L	P417520	
		Glyphosate	44		ug/L	P417520	
		Afidopyropen	0.0030	I	ug/L	P417606	
		Bentazon	0.16		ug/L	P417606	
		Sucralose	0.027	I	ug/L	P417520	
		Benzovindiflupyr	0.057		ug/L	P417606	
		Carbamazepine	8.0E-04	U	ug/L	P417606	
		Clothianidin	0.0097		ug/L	P417606	
		Dinotefuran	0.16		ug/L	P417606	
		Diuron	0.0020	U	ug/L	P417606	
		Fenuron	0.032	U	ug/L	P417606	
		Fluridone	8.0E-04	U	ug/L	P417606	
		Imazapyr	0.0040	U	ug/L	P417606	
		Hydrocodone	0.0020	U	ug/L	P417606	
		Ibuprofen	0.080	U	ug/L	P417606	
		Imidacloprid	0.83		ug/L	P417606	
		Linuron	0.0040	U	ug/L	P417606	
		Mandestrobin	0.0020	U	ug/L	P417606	
		MCPP	0.0040	U	ug/L	P417606	
		Naproxen	0.0080	U	ug/L	P417606	
		Primidone	0.0040	U	ug/L	P417606	
		Pyraclostrobin	0.0049	I	ug/L	P417606	
		Silvex	0.0040	U	ug/L	P417606	
		Thiamethoxam	0.033		ug/L	P417606	

Field ID: G1TLHR0160 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345234	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P417606	
		Triclopyr	0.0040	U	ug/L	P417606	
2345249	EPA 200.7 Rev. 4.4	Calcium	44.3		mg/L	P417540	
		Iron	150		ug/L	P417540	
		Magnesium	19.6		mg/L	P417540	
		Potassium	10.8		mg/L	P417540	
		Sodium	16.4		mg/L	P417540	
		Strontium	449		ug/L	P417540	
		Tin	3.0	U	ug/L	P417540	
		Titanium	2.4	I	ug/L	P417540	
		Vanadium	2.9	I	ug/L	P417540	
		Zinc	5.0	U	ug/L	P417540	
	EPA 200.8 Rev. 5.4	Aluminum	112		ug/L	P417540	
		Antimony	0.072	I	ug/L	P417540	
		Arsenic	2.03		ug/L	P417540	
		Barium	18.3		ug/L	P417540	
		Beryllium	0.010	U	ug/L	P417540	
		Boron	33.5		ug/L	P417540	
		Cadmium	0.020	U	ug/L	P417540	
		Chromium	0.40	U	ug/L	P417540	
		Cobalt	0.081		ug/L	P417540	
		Copper	0.74	I	ug/L	P417540	
		Lead	0.20	U	ug/L	P417540	
		Manganese	30.0		ug/L	P417540	
		Molybdenum	1.49		ug/L	P417540	
		Nickel	0.50	U	ug/L	P417540	
		Selenium	0.20	U	ug/L	P417540	
		Silver	0.010	U	ug/L	P417540	
		Thallium	0.10	U	ug/L	P417540	
	SM 2340 B-2011	Hardness	191		mg/L	P417540	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 350.1 Rev. 2.0: Matrix spike recovery data is unavailable because of high analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8321B: MS accuracy for sucralose could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: Willacoochee Creek upstream Milligan Rd **Collection Date/Time: 08/02/2022 12:05**

Field ID: G1TLHR0157 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345231	EPA 8321B	2,4-D	0.0020	U	ug/L	P417606	
		Acesulfame K	0.10	U	ug/L	P417520	
		2,4,5-T	0.0040	U	ug/L	P417606	
		AMPA	0.10	U	ug/L	P417520	
		Acetaminophen	0.0080	U	ug/L	P417606	
		Acetamiprid	0.0020	U	ug/L	P417606	
		Endothall	0.25	U	ug/L	P417520	
		Glufosinate	0.10	U	ug/L	P417520	
		Glyphosate	0.10	U	ug/L	P417520	
		Afidopyropen	0.0020	U	ug/L	P417606	
		Bentazon	0.0054		ug/L	P417606	
		Sucralose	0.063		ug/L	P417520	
		Benzovindiflupyr	0.022		ug/L	P417606	
		Carbamazepine	0.0016	I	ug/L	P417606	
		Clothianidin	0.0028	I	ug/L	P417606	
		Dinotefuran	0.17		ug/L	P417606	
		Diuron	0.0020	U	ug/L	P417606	
		Fenuron	0.032	U	ug/L	P417606	
		Fluridone	8.0E-04	U	ug/L	P417606	
		Imazapyr	0.012	I	ug/L	P417606	
		Hydrocodone	0.0020	U	ug/L	P417606	
		Ibuprofen	0.080	U	ug/L	P417606	
		Imidacloprid	0.014		ug/L	P417606	
		Linuron	0.0040	U	ug/L	P417606	
		Mandestrobin	0.0020	U	ug/L	P417606	
		MCPP	0.0040	U	ug/L	P417606	
		Naproxen	0.0080	U	ug/L	P417606	
		Primidone	0.0040	U	ug/L	P417606	
		Pyraclostrobin	0.0020	U	ug/L	P417606	
		Silvex	0.0040	U	ug/L	P417606	
		Thiamethoxam	0.0020	U	ug/L	P417606	
		Tolfenpyrad	0.0020	U	ug/L	P417606	
		Triclopyr	0.0040	U	ug/L	P417606	
2345245	EPA 200.7 Rev. 4.4	Calcium	5.60		mg/L	P417540	
		Iron	1.07E+03		ug/L	P417540	
		Magnesium	2.67		mg/L	P417540	
		Potassium	0.72	I	mg/L	P417540	
		Sodium	3.0		mg/L	P417540	
		Strontium	27.9		ug/L	P417540	
		Tin	3.0	U	ug/L	P417540	
		Titanium	6.4		ug/L	P417540	
		Vanadium	2.0	U	ug/L	P417540	
		Zinc	5.0	U	ug/L	P417540	
	EPA 200.8 Rev. 5.4	Aluminum	346		ug/L	P417540	

Field ID: G1TLHR0157 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345245	EPA 200.8 Rev. 5.4	Antimony	0.050	U	ug/L	P417540	
		Arsenic	0.71		ug/L	P417540	
		Barium	23.2		ug/L	P417540	
		Beryllium	0.020	I	ug/L	P417540	
		Boron	10.7		ug/L	P417540	
		Cadmium	0.020	U	ug/L	P417540	
		Chromium	0.65	I	ug/L	P417540	
		Cobalt	0.124		ug/L	P417540	
		Copper	0.64	I	ug/L	P417540	
		Lead	0.33	I	ug/L	P417540	
		Manganese	34.4		ug/L	P417540	
		Molybdenum	0.15	U	ug/L	P417540	
		Nickel	0.50	U	ug/L	P417540	
		Selenium	0.20	U	ug/L	P417540	
		Silver	0.010	U	ug/L	P417540	
		Thallium	0.10	U	ug/L	P417540	
	SM 2340 B-2011	Hardness	25.0		mg/L	P417540	

Ref. Method and Comment:
EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8321B: MS accuracy for sucralose could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: Quincy Creek upstream Ralph Strang Rd **Collection Date/Time: 08/02/2022 12:30**

Field ID: G1TLHR0163 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345253	EPA 200.7 Rev. 4.4	Calcium	5.10		mg/L	P417540	
		Iron	1.55E+03		ug/L	P417540	
		Magnesium	1.53		mg/L	P417540	
		Potassium	0.40	I	mg/L	P417540	
		Sodium	2.5		mg/L	P417540	
		Strontium	15.5		ug/L	P417540	
		Tin	3.0	U	ug/L	P417540	
		Titanium	12.3		ug/L	P417540	
		Vanadium	2.0	U	ug/L	P417540	
		Zinc	5.0	U	ug/L	P417540	
	EPA 200.8 Rev. 5.4	Aluminum	259		ug/L	P417540	
		Antimony	0.050	U	ug/L	P417540	
		Arsenic	0.99		ug/L	P417540	
		Barium	14.6		ug/L	P417540	
		Beryllium	0.020	I	ug/L	P417540	
		Boron	11.5		ug/L	P417540	
		Cadmium	0.020	U	ug/L	P417540	
		Chromium	0.56	I	ug/L	P417540	
		Cobalt	0.209		ug/L	P417540	
		Copper	0.59	I	ug/L	P417540	
		Lead	0.37	I	ug/L	P417540	
		Manganese	57.0		ug/L	P417540	
		Molybdenum	0.15	U	ug/L	P417540	
		Nickel	0.50	U	ug/L	P417540	
		Selenium	0.20	U	ug/L	P417540	
		Silver	0.010	U	ug/L	P417540	
		Thallium	0.10	U	ug/L	P417540	
	SM 2340 B-2011	Hardness	19.0		mg/L	P417540	

Sample Location: Tanyard Branch @ US90 **Collection Date/Time: 08/02/2022 12:40**

Field ID: G1TLHR0190 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345202	DEP SOP: NU-094-1	Color (true)	69		PCU	P417576	
	EPA 180.1 Rev. 2.0	Turbidity	10		NTU	P417587	
	EPA 300.0 Rev. 2.1	Chloride	9.6		mg Cl/L	P417882	
		Sulfate	0.81		mg SO4/L	P417887	
	SM 2320 B-2011	Total Alkalinity	37		mg CaCO3/L	P417841	
	SM 2540 C-2011	TDS	69		mg/L	P417986	
	SM 2540 D-2011	TSS	5	I	mg/L	P418065	
	SM 4500-F- C-2011	Fluoride	0.093	I	mg F/L	P417846	
2345206	EPA 350.1 Rev. 2.0	Ammonia-N	0.77		mg N/L	P417659	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P417796	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.030		mg N/L	P417649	
	EPA 365.1 Rev. 2.0	Total-P	0.17		mg P/L	P417739	
	SM 5310 B-2011	Organic Carbon	6.9		mg C/L	P417762	
2345235	EPA 8321B	2,4-D	0.0038	I	ug/L	P417606	
		Acesulfame K	0.83		ug/L	P417520	
		2,4,5-T	0.0040	U	ug/L	P417606	
		AMPA	0.10	U	ug/L	P417520	
		Acetaminophen	5.4		ug/L	P417606	
		Acetamiprid	0.0020	U	ug/L	P417606	
		Endothall	0.25	U	ug/L	P417520	
		Glufosinate	0.10	U	ug/L	P417520	
		Glyphosate	0.10	U	ug/L	P417520	
		Afidopyropen	0.0020	U	ug/L	P417606	
		Bentazon	8.0E-04	U	ug/L	P417606	
		Sucralose	1.3		ug/L	P417520	
		Benzovindiflupyr	0.0020	U	ug/L	P417606	
		Carbamazepine	8.0E-04	U	ug/L	P417606	
		Clothianidin	0.0020	U	ug/L	P417606	
		Dinotefuran	0.012		ug/L	P417606	
		Diuron	0.0020	U	ug/L	P417606	
		Fenuron	0.032	U	ug/L	P417606	
		Fluridone	8.0E-04	U	ug/L	P417606	
		Imazapyr	0.0040	I	ug/L	P417606	
		Hydrocodone	0.0020	U	ug/L	P417606	
		Ibuprofen	0.24	I	ug/L	P417606	
		Imidacloprid	0.0021	I	ug/L	P417606	
		Linuron	0.0040	U	ug/L	P417606	
		Mandestrobin	0.0020	U	ug/L	P417606	
		MCPP	0.0040	U	ug/L	P417606	
		Naproxen	0.26		ug/L	P417606	
		Primidone	0.0040	U	ug/L	P417606	
		Pyraclostrobin	0.0020	U	ug/L	P417606	
		Silvex	0.0040	U	ug/L	P417606	
		Thiamethoxam	0.0020	U	ug/L	P417606	

Field ID: G1TLHR0190 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345235	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P417606	
		Triclopyr	0.0040	U	ug/L	P417606	
2345250	EPA 200.7 Rev. 4.4	Calcium	10.7		mg/L	P417540	
		Iron	2.37E+03		ug/L	P417540	
		Magnesium	2.50		mg/L	P417540	
		Potassium	0.54	I	mg/L	P417540	
		Sodium	7.0		mg/L	P417540	
		Strontium	28.4		ug/L	P417540	
		Tin	3.0	U	ug/L	P417540	
		Titanium	3.3		ug/L	P417540	
		Vanadium	2.0	U	ug/L	P417540	
		Zinc	5.0	U	ug/L	P417540	
	EPA 200.8 Rev. 5.4	Aluminum	170		ug/L	P417540	
		Antimony	0.061	I	ug/L	P417540	
		Arsenic	1.21		ug/L	P417540	
		Barium	18.2		ug/L	P417540	
		Beryllium	0.010	U	ug/L	P417540	
		Boron	14.0		ug/L	P417540	
		Cadmium	0.020	U	ug/L	P417540	
		Chromium	0.63	I	ug/L	P417540	
		Cobalt	0.202		ug/L	P417540	
		Copper	1.08		ug/L	P417540	
		Lead	0.32	I	ug/L	P417540	
		Manganese	58.1		ug/L	P417540	
		Molybdenum	0.26	I	ug/L	P417540	
		Nickel	0.50	U	ug/L	P417540	
		Selenium	0.20	U	ug/L	P417540	
		Silver	0.010	U	ug/L	P417540	
		Thallium	0.10	U	ug/L	P417540	
	SM 2340 B-2011	Hardness	36.9		mg/L	P417540	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 350.1 Rev. 2.0: Matrix spike recovery data is unavailable because of high analyte concentration in the QC sample.
EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8321B: MS accuracy for sucralose could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: Hurricane Creek upstream US90 **Collection Date/Time: 08/02/2022 12:55**

Field ID: G1TLHR0161 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345203	DEP SOP: NU-094-1	Color (true)	43		PCU	P417576	
	EPA 180.1 Rev. 2.0	Turbidity	7.6		NTU	P417587	
	EPA 300.0 Rev. 2.1	Chloride	9.3		mg Cl/L	P417882	
		Sulfate	11		mg SO4/L	P417887	
	SM 2320 B-2011	Total Alkalinity	42	A	mg CaCO3/L	P417841	
	SM 2540 C-2011	TDS	89		mg/L	P417986	
	SM 2540 D-2011	TSS	8	I	mg/L	P418065	
	SM 4500-F- C-2011	Fluoride	0.14		mg F/L	P417846	
2345207	EPA 350.1 Rev. 2.0	Ammonia-N	0.039		mg N/L	P417659	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.50		mg N/L	P417796	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.30		mg N/L	P417649	
	EPA 365.1 Rev. 2.0	Total-P	0.25		mg P/L	P417739	
	SM 5310 B-2011	Organic Carbon	6.0		mg C/L	P417762	
2345236	EPA 8321B	2,4-D	0.0020	U	ug/L	P417606	
		Acesulfame K	0.10	U	ug/L	P417520	
		2,4,5-T	0.0040	U	ug/L	P417606	
		AMPA	1.3		ug/L	P417520	
		Acetaminophen	0.0080	U	ug/L	P417606	
		Acetamiprid	0.0020	U	ug/L	P417606	
		Endothall	0.25	U	ug/L	P417520	
		Glufosinate	0.10	U	ug/L	P417520	
		Glyphosate	0.22	I	ug/L	P417520	
		Afidopyropen	0.0020	U	ug/L	P417606	
		Bentazon	0.044		ug/L	P417606	
		Sucralose	0.094		ug/L	P417520	
		Benzovindiflupyr	0.0020	U	ug/L	P417606	
		Carbamazepine	8.0E-04	U	ug/L	P417606	
		Clothianidin	0.0020	U	ug/L	P417606	
		Dinotefuran	0.040		ug/L	P417606	
		Diuron	0.0020	U	ug/L	P417606	
		Fenuron	0.032	U	ug/L	P417606	
		Fluridone	8.0E-04	U	ug/L	P417606	
		Imazapyr	0.0040	U	ug/L	P417606	
		Hydrocodone	0.0020	U	ug/L	P417606	
		Ibuprofen	0.080	U	ug/L	P417606	
		Imidacloprid	0.040		ug/L	P417606	
		Linuron	0.0040	U	ug/L	P417606	
		Mandestrobin	0.0020	U	ug/L	P417606	
		MCPP	0.0040	U	ug/L	P417606	
		Naproxen	0.0080	U	ug/L	P417606	
		Primidone	0.0040	U	ug/L	P417606	
		Pyraclostrobin	0.0020	U	ug/L	P417606	
		Silvex	0.0040	U	ug/L	P417606	
		Thiamethoxam	0.0020	U	ug/L	P417606	

Field ID: G1TLHR0161 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345236	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P417606	
		Triclopyr	0.0040	U	ug/L	P417606	
2345251	EPA 200.7 Rev. 4.4	Calcium	14.6		mg/L	P417540	
		Iron	600		ug/L	P417540	
		Magnesium	5.38		mg/L	P417540	
		Potassium	2.5		mg/L	P417540	
		Sodium	5.9		mg/L	P417540	
		Strontium	90.1		ug/L	P417540	
		Tin	3.0	U	ug/L	P417540	
		Titanium	1.9	I	ug/L	P417540	
		Vanadium	2.4	I	ug/L	P417540	
		Zinc	5.0	U	ug/L	P417540	
	EPA 200.8 Rev. 5.4	Aluminum	212		ug/L	P417540	
		Antimony	0.059	I	ug/L	P417540	
		Arsenic	1.33		ug/L	P417540	
		Barium	12.4		ug/L	P417540	
		Beryllium	0.012	I	ug/L	P417540	
		Boron	16.4		ug/L	P417540	
		Cadmium	0.020	U	ug/L	P417540	
		Chromium	0.48	I	ug/L	P417540	
		Cobalt	0.065	I	ug/L	P417540	
		Copper	0.40	U	ug/L	P417540	
		Lead	0.20	U	ug/L	P417540	
		Manganese	25.7		ug/L	P417540	
		Molybdenum	0.50	I	ug/L	P417540	
		Nickel	0.50	U	ug/L	P417540	
		Selenium	0.20	U	ug/L	P417540	
		Silver	0.010	U	ug/L	P417540	
		Thallium	0.10	U	ug/L	P417540	
	SM 2340 B-2011	Hardness	58.7		mg/L	P417540	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 350.1 Rev. 2.0: Matrix spike recovery data is unavailable because of high analyte concentration in the QC sample.
EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8321B: MS accuracy for sucralose could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: Richlander Creek upstream Hwy65B **Collection Date/Time: 08/02/2022 13:25**

Field ID: G1TLHR0162 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345237	EPA 8321B	Aldicarb	0.020	U	ug/L	P417651	
		Aldicarb Sulfone	0.0020	U	ug/L	P417651	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P417651	MS
		Carbaryl	0.0020	U	ug/L	P417651	
		Carbofuran	0.0020	U	ug/L	P417651	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P417651	
		Methiocarb	0.0020	U	ug/L	P417651	
		Methomyl	0.0020	U	ug/L	P417651	
		Oxamyl	0.0020	U	ug/L	P417651	
		Propoxur	0.0020	U	ug/L	P417651	
2345238		2,4-D	0.0020	U	ug/L	P417606	
		Acesulfame K	0.10	U	ug/L	P417520	
		2,4,5-T	0.0040	U	ug/L	P417606	
		AMPA	0.10	U	ug/L	P417520	
		Acetaminophen	0.0080	U	ug/L	P417606	
		Acetamiprid	0.0020	U	ug/L	P417606	
		Endothall	0.25	U	ug/L	P417520	
		Glufosinate	0.10	U	ug/L	P417520	
		Glyphosate	0.10	U	ug/L	P417520	
		Afidopyropen	0.0020	U	ug/L	P417606	
		Bentazon	0.0010	I	ug/L	P417606	
		Sucralose	0.11		ug/L	P417520	
		Benzovindiflupyr	0.0020	U	ug/L	P417606	
		Carbamazepine	8.0E-04	U	ug/L	P417606	
		Clothianidin	0.0020	U	ug/L	P417606	
		Dinotefuran	0.0020	U	ug/L	P417606	
		Diuron	0.0020	U	ug/L	P417606	
		Fenuron	0.032	U	ug/L	P417606	
		Fluridone	8.0E-04	U	ug/L	P417606	
		Imazapyr	0.0040	U	ug/L	P417606	
		Hydrocodone	0.0020	U	ug/L	P417606	
		Ibuprofen	0.080	U	ug/L	P417606	
		Imidacloprid	0.0033	I	ug/L	P417606	
		Linuron	0.0040	U	ug/L	P417606	
		Mandestrobin	0.0020	U	ug/L	P417606	
		MCPP	0.0040	U	ug/L	P417606	
		Naproxen	0.0080	U	ug/L	P417606	
		Primidone	0.0040	U	ug/L	P417606	
		Pyraclostrobin	0.0020	U	ug/L	P417606	
		Silvex	0.0040	U	ug/L	P417606	
		Thiamethoxam	0.0020	U	ug/L	P417606	
		Tolfenpyrad	0.0020	U	ug/L	P417606	
		Triclopyr	0.0040	U	ug/L	P417606	
2345241	EPA 8270E	Aldrin	0.68	U	ng/L	P417489	

Field ID: G1TLHR0162 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345241	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P417489	
		Alpha-Chlordane	0.21	U	ng/L	P417489	
		PCB-1016	2.1	U	ng/L	P417489	
		Beta-BHC	0.10	U	ng/L	P417489	
		PCB-1221	2.1	U	ng/L	P417489	
		Beta-Cyfluthrin	1.3	U	ng/L	P417489	
		PCB-1232	2.1	U	ng/L	P417489	
		Bifenthrin	0.52	U	ng/L	P417489	
		PCB-1242	2.1	U	ng/L	P417489	
		PCB-1248	2.1	U	ng/L	P417489	
		Chlorothalonil	1.3	U	ng/L	P417489	
		PCB-1254	2.1	U	ng/L	P417489	
		Cis-Nonachlor	0.21	U	ng/L	P417489	
		PCB-1260	2.1	U	ng/L	P417489	
		Cypermethrin	1.6	U	ng/L	P417489	
		Dacthal	0.16	U	ng/L	P417489	
		DDD-p,p'	0.26	U	ng/L	P417489	
		DDE-p,p'	0.21	U	ng/L	P417489	
		DDT-p,p'	0.26	U	ng/L	P417489	
		Delta-BHC	0.42	U	ng/L	P417489	
		Deltamethrin	1.3	U	ng/L	P417489	
		Dichlobenil	0.26	U	ng/L	P417489	
		Dicofol	1.3	U	ng/L	P417489	
		Dieldrin	0.42	U	ng/L	P417489	
		Endosulfan I	0.42	U	ng/L	P417489	
		Endosulfan II	0.42	U	ng/L	P417489	
		Endosulfan Sulfate	0.31	U	ng/L	P417489	MS
		Endrin	0.42	U	ng/L	P417489	
		Endrin Aldehyde	0.78	U	ng/L	P417489	
		Endrin Ketone	0.42	U	ng/L	P417489	
		Esfenvalerate	0.78	U	ng/L	P417489	
		Ethalfluralin	0.16	U	ng/L	P417489	
		Fenpropathrin	0.26	U	ng/L	P417489	
		Gamma-BHC	0.13	U	ng/L	P417489	
		Gamma-Chlordane	0.21	U	ng/L	P417489	
		Heptachlor	0.21	U	ng/L	P417489	
		Heptachlor Epoxide	0.26	U	ng/L	P417489	
		Hexachlorobenzene**	1.0	U	ng/L	P417489	
		Kepone	5.2	U	ng/L	P417489	
		Lambda-Cyhalothrin	0.78	U	ng/L	P417489	
		Methoprene	0.78	U	ng/L	P417489	
		Methoxychlor	0.31	U	ng/L	P417489	
		MGK-264	0.21	U	ng/L	P417489	
		Mirex	0.37	U	ng/L	P417489	
		Oxychlordane	0.31	U	ng/L	P417489	

Field ID: G1TLHR0162 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345241	EPA 8270E	Permethrin	1.7	U	ng/L	P417489	
		Phenothrin	0.94	U	ng/L	P417489	
		Piperonyl Butoxide	0.21	I	ng/L	P417489	
		Prallethrin	2.1	U	ng/L	P417489	
		Tau-Fluvalinate	0.26	U	ng/L	P417489	MS
		Tetramethrin	0.78	U	ng/L	P417489	
		Trans-Nonachlor	0.21	U	ng/L	P417489	
		Triclosan Methyl	0.16	U	ng/L	P417489	
		Trifluralin	0.21	U	ng/L	P417489	
	EPA 8276	Chlordane	2.6	U	ng/L	P417489	
		Toxaphene	16	U	ng/L	P417489	
2345242	EPA 8270E	Acetochlor	0.26	U	ng/L	P417604	
		Alachlor	0.75	I	ng/L	P417604	
		Ametryn	0.63	U	ng/L	P417604	
		Atrazine	0.26	U	ng/L	P417604	
		Atrazine Desethyl	1.6	U	ng/L	P417604	
		Azinphos Methyl	2.1	U	ng/L	P417604	
		Azoxystrobin	0.52	U	ng/L	P417604	
		Bromacil	0.52	U	ng/L	P417604	
		Butylate	0.42	U	ng/L	P417604	
		Caffeine**	7.8	U	ng/L	P417604	
		Carbophenothion	0.21	U	ng/L	P417604	
		Carfentrazone Ethyl	0.10	U	ng/L	P417604	
		Chlorfenapyr	0.18	U	ng/L	P417604	
		Chlorpyrifos Ethyl	0.26	U	ng/L	P417604	
		Chlorpyrifos Methyl	0.052	U	ng/L	P417604	
		Coumaphos	0.52	U	ng/L	P417604	
		Cyanazine	3.4	U	ng/L	P417604	
		Cyprodinil	0.10	U	ng/L	P417604	
		Demeton	1.6	U	ng/L	P417604	
		Diazinon	0.13	U	ng/L	P417604	
		Difenoconazole	0.63	U	ng/L	P417604	
		Dimethenamid	0.10	U	ng/L	P417604	
		Dimethomorph	0.18	U	ng/L	P417604	
		Disulfoton	0.52	U	ng/L	P417604	
		Dithiopyr	0.18	U	ng/L	P417604	
		EPTC	1.3	U	ng/L	P417604	
		Ethion	0.16	UJ	ng/L	P417604	LCS
		Ethoprop	0.10	U	ng/L	P417604	
		Etridiazole	0.16	U	ng/L	P417604	
		Fenamiphos	0.52	U	ng/L	P417604	
		Fenbuconazole	0.13	U	ng/L	P417604	
		Fipronil	0.26	U	ng/L	P417604	
		Fipronil Desulfinyl**	0.13	U	ng/L	P417604	
		Fipronil Sulfide	0.16	U	ng/L	P417604	

Field ID: G1TLHR0162 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345242	EPA 8270E	Fipronil Sulfone	0.16	U	ng/L	P417604	
		Fluazifop-P-butyl	0.10	U	ng/L	P417604	
		Fludioxonil	0.13	U	ng/L	P417604	
		Flumioxazin	1.8	U	ng/L	P417604	
		Flutolanil	1.2		ng/L	P417604	
		Fluxapyroxad	0.30	I	ng/L	P417604	
		Fonofos	0.21	U	ng/L	P417604	
		Hexazinone	0.52	U	ng/L	P417604	
		Imazalil	0.78	U	ng/L	P417604	
		Iprodione	0.63	U	ng/L	P417604	
		Loratadine**	0.10	U	ng/L	P417604	MS
		Malathion	0.37	U	ng/L	P417604	
		Metalaxyl	0.78	U	ng/L	P417604	
		Metolachlor	5.8		ng/L	P417604	
		Metribuzin	2.6	U	ng/L	P417604	
		Mevinphos	1.1	U	ng/L	P417604	
		Molinate	0.31	U	ng/L	P417604	
		Myclobutanil	0.26	U	ng/L	P417604	
		Naled	1.6	U	ng/L	P417604	
		Napropamide	0.42	U	ng/L	P417604	
		Norflurazon	0.52	U	ng/L	P417604	
		Oxadiazon	0.31	U	ng/L	P417604	
		Oxyfluorfen	0.16	U	ng/L	P417604	
		Parathion Ethyl	0.26	U	ng/L	P417604	
		Parathion Methyl	0.57	U	ng/L	P417604	
		Pendimethalin	1.0	U	ng/L	P417604	
		Phenytoin**	3.7	U	ng/L	P417604	MS
		Phorate	0.55	U	ng/L	P417604	
		Prodiamine	0.18	U	ng/L	P417604	
		Prometon	0.94	U	ng/L	P417604	
		Prometryn	0.21	U	ng/L	P417604	
		Pronamide	0.16	U	ng/L	P417604	
		Propanil	0.13	U	ng/L	P417604	
		Propargite	1.6	UJ	ng/L	P417604	LCS
		Propiconazole	0.52	U	ng/L	P417604	
		Pyraflufen Ethyl	0.26	U	ng/L	P417604	
		Pyridaben	0.47	U	ng/L	P417604	
		Pyriproxyfen	0.13	U	ng/L	P417604	
		Simazine	0.52	U	ng/L	P417604	
		Stirophos	0.13	U	ng/L	P417604	
		Sulfentrazone	0.52	U	ng/L	P417604	
		Tebuconazole	0.52	U	ng/L	P417604	
		Terbufos	0.10	U	ng/L	P417604	
		Terbuthylazine	0.44	U	ng/L	P417604	
		Thiobencarb	0.63	U	ng/L	P417604	

Field ID: G1TLHR0162 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345242	EPA 8270E	Triadimefon	0.26	U	ng/L	P417604	
2345252	EPA 200.7 Rev. 4.4	Calcium	4.22		mg/L	P417540	
		Iron	2.25E+03		ug/L	P417540	
		Magnesium	1.31		mg/L	P417540	
		Potassium	0.36	I	mg/L	P417540	
		Sodium	3.2		mg/L	P417540	
		Strontium	16.9		ug/L	P417540	
		Tin	3.0	U	ug/L	P417540	
		Titanium	6.4		ug/L	P417540	
		Vanadium	2.0	U	ug/L	P417540	
		Zinc	5.0	U	ug/L	P417540	
	EPA 200.8 Rev. 5.4	Aluminum	474		ug/L	P417540	
		Antimony	0.050	U	ug/L	P417540	
		Arsenic	0.90		ug/L	P417540	
		Barium	14.5		ug/L	P417540	
		Beryllium	0.021	I	ug/L	P417540	
		Boron	11.9		ug/L	P417540	
		Cadmium	0.020	U	ug/L	P417540	
		Chromium	1.0	I	ug/L	P417540	
		Cobalt	0.120		ug/L	P417540	
		Copper	0.57	I	ug/L	P417540	
		Lead	0.45		ug/L	P417540	
		Manganese	32.5		ug/L	P417540	
		Molybdenum	0.15	U	ug/L	P417540	
		Nickel	0.50	U	ug/L	P417540	
		Selenium	0.20	U	ug/L	P417540	
		Silver	0.010	U	ug/L	P417540	
		Thallium	0.10	U	ug/L	P417540	
	SM 2340 B-2011	Hardness	15.9		mg/L	P417540	

Ref. Method and Comment:
EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8321B: MS accuracy for sucralose could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8270E: MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Little River upstream Hwy268 **Collection Date/Time: 08/02/2022 13:50**

Field ID: G1TLHR0158 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345232	EPA 8321B	2,4-D	0.0059	I	ug/L	P417606	
		Acesulfame K	0.10	U	ug/L	P417520	
		2,4,5-T	0.0040	U	ug/L	P417606	
		AMPA	0.10	U	ug/L	P417520	
		Acetaminophen	0.0080	U	ug/L	P417606	
		Acetamiprid	0.0020	U	ug/L	P417606	
		Endothall	0.25	U	ug/L	P417520	
		Glufosinate	0.10	U	ug/L	P417520	
		Glyphosate	0.10	U	ug/L	P417520	
		Afidopyropen	0.0020	U	ug/L	P417606	
		Bentazon	0.0067		ug/L	P417606	
		Sucralose	0.57		ug/L	P417520	
		Benzovindiflupyr	0.0074	I	ug/L	P417606	
		Carbamazepine	9.5E-04	I	ug/L	P417606	
		Clothianidin	0.0020	U	ug/L	P417606	
		Dinotefuran	0.071		ug/L	P417606	
		Diuron	0.058		ug/L	P417606	
		Fenuron	0.032	U	ug/L	P417606	
		Fluridone	8.0E-04	U	ug/L	P417606	
		Imazapyr	0.033		ug/L	P417606	
		Hydrocodone	0.0020	U	ug/L	P417606	
		Ibuprofen	0.080	U	ug/L	P417606	
		Imidacloprid	0.015		ug/L	P417606	
		Linuron	0.0040	U	ug/L	P417606	
		Mandestrobin	0.0020	U	ug/L	P417606	
		MCPP	0.0050	I	ug/L	P417606	
		Naproxen	0.0080	U	ug/L	P417606	
		Primidone	0.0040	U	ug/L	P417606	
		Pyraclostrobin	0.0020	U	ug/L	P417606	
		Silvex	0.0040	U	ug/L	P417606	
		Thiamethoxam	0.0020	U	ug/L	P417606	
		Tolfenpyrad	0.0020	U	ug/L	P417606	
		Triclopyr	0.0040	U	ug/L	P417606	
2345246	EPA 200.7 Rev. 4.4	Calcium	8.20		mg/L	P417540	
		Iron	1.60E+03		ug/L	P417540	
		Magnesium	2.96		mg/L	P417540	
		Potassium	1.1	I	mg/L	P417540	
		Sodium	6.1		mg/L	P417540	
		Strontium	31.5		ug/L	P417540	
		Tin	3.0	U	ug/L	P417540	
		Titanium	9.1		ug/L	P417540	
		Vanadium	3.6	I	ug/L	P417540	
		Zinc	5.0	U	ug/L	P417540	
	EPA 200.8 Rev. 5.4	Aluminum	450		ug/L	P417540	

Field ID: G1TLHR0158 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345246	EPA 200.8 Rev. 5.4	Antimony	0.050	U	ug/L	P417540	
		Arsenic	1.06		ug/L	P417540	
		Barium	21.6		ug/L	P417540	
		Beryllium	0.024	I	ug/L	P417540	
		Boron	16.2		ug/L	P417540	
		Cadmium	0.020	U	ug/L	P417540	
		Chromium	0.80	I	ug/L	P417540	
		Cobalt	0.145		ug/L	P417540	
		Copper	0.49	I	ug/L	P417540	
		Lead	0.43		ug/L	P417540	
		Manganese	46.3		ug/L	P417540	
		Molybdenum	0.31	I	ug/L	P417540	
		Nickel	0.50	U	ug/L	P417540	
		Selenium	0.20	U	ug/L	P417540	
		Silver	0.010	U	ug/L	P417540	
		Thallium	0.10	U	ug/L	P417540	
	SM 2340 B-2011	Hardness	32.6		mg/L	P417540	

Ref. Method and Comment:
EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8321B: MS accuracy for sucralose could not be assessed due to high concentration of parameter in the spiked sample.

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P417576

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P417587

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P417540

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: P417540

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: P417882

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: P417887

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418025

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417659

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417771

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417677

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417714

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417796

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417649

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417738

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417739

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

Reference Method: EPA 8270E
Batch ID: P417489

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	1.2	U	ng/L
Chlorothalonil	1.2	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P417489

Component	Result	Code	Units
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
Ethalfluralin	0.15	U	ng/L
Ethalfluralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P417489

Component	Result	Code	Units
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8270E
Batch ID: P417604

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P417604

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P417604

Component	Result	Code	Units
Iprodione	0.60	U	ng/L
Loratadine	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P417604

Component	Result	Code	Units
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L
Terbuthylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8276
Batch ID: P417489

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

Reference Method: EPA 8321B
Batch ID: P417520

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L
Endothall	0.25	U	ug/L
Glufosinate	0.10	U	ug/L
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B
Batch ID: P417606

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P417606

Component	Result	Code	Units
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: P417651

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

Reference Method: SM 2320 B-2011
Batch ID: P417841

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

Reference Method: SM 2540 C-2011
Batch ID: P417986

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 2540 D-2011
Batch ID: P418065

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P417846

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P417762

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: P417576

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	101		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P417587

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P417540

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	105		P	85 - 115
Iron	104		P	85 - 115
Magnesium	103		P	85 - 115
Potassium	102		P	85 - 115
Sodium	106		P	85 - 115
Strontium	106		P	85 - 115
Tin	104		P	85 - 115
Titanium	104		P	85 - 115
Vanadium	103		P	85 - 115
Zinc	104		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P417540

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	96.4		P	85 - 115
Antimony	101		P	85 - 115
Arsenic	98.5		P	85 - 115
Barium	103		P	85 - 115
Beryllium	90.0		P	85 - 115
Boron	93.5		P	85 - 115
Cadmium	96.8		P	85 - 115
Chromium	99.0		P	85 - 115
Cobalt	96.7		P	85 - 115
Copper	98.0		P	85 - 115
Lead	91.8		P	85 - 115
Manganese	98.4		P	85 - 115
Molybdenum	95.4		P	85 - 115
Nickel	98.6		P	85 - 115
Selenium	100		P	85 - 115
Silver	95.7		P	85 - 115
Thallium	96.2		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417882

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417887

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418025

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417659

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417771

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417677

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417714

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.9		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417796

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417649

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417738

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417739

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

Reference Method: EPA 8270E
Batch ID: P417489

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	59.2		P	10 - 92.0
Alpha-BHC	93.9		P	75 - 107
Alpha-Chlordane	83.3		P	50 - 108
Beta-BHC	114		P	36 - 138
Beta-Cyfluthrin	132		P	20 - 161
Bifenthrin	102		P	10 - 119
Chlorothalonil	134		P	26 - 186
Cis-Nonachlor	89.1		P	42 - 119
Cypermethrin	108		P	22 - 150
Dacthal	92.1		P	72 - 119
DDD-p,p'	84.0		P	45 - 107
DDE-p,p'	86.8		P	48 - 106
DDT-p,p'	87.3		P	48 - 110
Delta-BHC	114		P	54 - 140
Deltamethrin	187		P	22 - 189
Dichlobenil	89.6		P	36 - 117
Dicofol	92.9		P	46 - 155
Dieldrin	88.2		P	54 - 110
Endosulfan I	90.8		P	59 - 105
Endosulfan II	93.1		P	51 - 118
Endosulfan Sulfate	79.0		P	57 - 121
Endrin	88.7		P	10 - 120
Endrin Aldehyde	83.0		P	34 - 118
Endrin Ketone	104		P	69 - 177
Esfenvalerate	148		P	23 - 168
Ethalfluralin	82.1		P	49 - 99.0
Fenpropathrin	90.9		P	34 - 117
Gamma-BHC	97.8		P	72 - 117
Gamma-Chlordane	80.1		P	43 - 106
Heptachlor	75.9		P	41 - 98.0
Heptachlor Epoxide	78.0		P	57 - 106
Hexachlorobenzene	83.0		P	36 - 99.0
Kepone	33.1		P	16 - 215
Lambda-Cyhalothrin	121		P	21 - 177
Methoprene	75.0		P	10 - 119
Methoxychlor	107		P	60 - 112
MGK-264	67.2		P	26 - 122
Mirex	80.2		P	10 - 169
Oxychlordane	75.2		P	43 - 105
PCB-1016	86.3		P	48 - 112
PCB-1260	86.0		P	44 - 118
Permethrin	114		P	24 - 148
Phenothrin	82.6		P	10 - 106
Piperonyl Butoxide	128		P	10 - 139
Prallethrin	86.5		P	17 - 109
Tau-Fluvalinate	114		P	13 - 131

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P417489

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Tetramethrin	101		P	10 - 132
Trans-Nonachlor	68.5		P	44 - 106
Triclosan Methyl	87.8		P	59 - 109
Trifluralin	85.8		P	44 - 101

Reference Method: EPA 8270E
Batch ID: P417604

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	107		P	70 - 121
Alachlor	103		P	68 - 119
Ametryn	133		P	64 - 139
Atrazine	110		P	76 - 120
Atrazine Desethyl	87.2		P	44 - 126
Azinphos Methyl	103		P	43 - 192
Azoxystrobin	146		P	36 - 224
Bromacil	82.1		P	52 - 121
Butylate	48.6		P	28 - 91.0
Caffeine	83.7		P	50 - 134
Carbophenothion	70.0		P	56 - 129
Carfentrazone Ethyl	105		P	60 - 141
Chlorfenapyr	66.8		P	56 - 115
Chlorpyrifos Ethyl	113		P	60 - 118
Chlorpyrifos Methyl	89.9		P	68 - 119
Coumaphos	45.4		P	18 - 250
Cyanazine	92.9		P	61 - 250
Cyprodinil	126		P	55 - 145
Demeton	115		P	30 - 159
Diazinon	110		P	70 - 123
Difenoconazole	118		P	49 - 204
Dimethenamid	75.9		P	64 - 115
Dimethomorph	113		P	12 - 219
Disulfoton	104		P	44 - 125
Dithiopyr	104		P	64 - 115
EPTC	58.0		P	28 - 86.0
Ethion	19.3		F	33 - 125
Ethoprop	112		P	64 - 116
Etridiazole	69.3		P	34 - 91.0
Fenamiphos	71.8		P	12 - 127
Fenbuconazole	78.6		P	59 - 151
Fipronil	98.9		P	67 - 129
Fipronil Desulfinyl	102		P	65 - 127
Fipronil Sulfide	93.8		P	61 - 116
Fipronil Sulfone	89.7		P	55 - 117
Fluazifop-P-butyl	104		P	62 - 127
Fludioxonil	65.1		P	62 - 128
Flumioxazin	60.6		P	33 - 250
Flutolanil	85.4		P	56 - 127
Fluxapyroxad	50.7		P	45 - 128
Fonofos	106		P	62 - 111
Hexazinone	87.7		P	46 - 139
Imazalil	70.8		P	38 - 142

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P417604

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Iprodione	71.5		P	47 - 135
Loratadine	218		P	10 - 244
Malathion	104		P	61 - 139
Metalaxyl	102		P	10 - 119
Metolachlor	88.0		P	65 - 118
Metribuzin	112		P	51 - 250
Mevinphos	94.2		P	53 - 121
Molinate	67.0		P	42 - 96.0
Myclobutanil	88.1		P	55 - 128
Naled	65.7		P	10 - 98.0
Napropamide	52.4		P	49 - 121
Norflurazon	80.7		P	61 - 126
Oxadiazon	90.6		P	59 - 116
Oxyfluorfen	96.8		P	64 - 137
Parathion Ethyl	104		P	70 - 112
Parathion Methyl	133		P	76 - 133
Pendimethalin	103		P	52 - 117
Phenytoin	15.2		P	10 - 199
Phorate	104		P	48 - 121
Prodiamine	50.3		P	26 - 142
Prometon	80.9		P	43 - 123
Prometryn	112		P	66 - 127
Pronamide	115		P	75 - 121
Propanil	93.0		P	45 - 150
Propargite	35.4		F	42 - 208
Propiconazole	81.8		P	60 - 125
Pyraflufen Ethyl	75.1		P	70 - 138
Pyridaben	79.8		P	35 - 245
Pyriproxyfen	33.6		P	30 - 149
Simazine	95.4		P	72 - 125
Stirophos	29.2		P	29 - 164
Sulfentrazone	84.1		P	21 - 139
Tebuconazole	20.0		P	10 - 115
Terbufos	114		P	60 - 123
Terbuthylazine	107		P	72 - 115
Thiobencarb	81.2		P	31 - 139
Triadimefon	82.8		P	65 - 116

Reference Method: EPA 8276
Batch ID: P417489

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	97.8		P	61 - 116
Toxaphene	99.2		P	48 - 124

Reference Method: EPA 8321B
Batch ID: P417520

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	99.6		P	40 - 150
AMPA	111		P	40 - 150
Endothall	90.8		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P417520

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Glufosinate	111		P	40 - 150
Glyphosate	110		P	40 - 150
Sucralose	113		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P417606

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	101		P	40 - 150
2,4,5-T	100		P	40 - 150
Acetaminophen	34.6		P	30 - 150
Acetamiprid	88.1		P	40 - 150
Afidopyropen	76.3		P	30 - 150
Bentazon	102		P	30 - 150
Benzovindiflupyr	94.5		P	40 - 150
Carbamazepine	101		P	40 - 150
Clothianidin	98.8		P	40 - 150
Dinotefuran	102		P	40 - 150
Diuron	89.5		P	40 - 150
Fenuron	96.6		P	40 - 150
Fluridone	100		P	40 - 150
Hydrocodone	96.5		P	40 - 150
Ibuprofen	87.3		P	40 - 150
Imazapyr	114		P	40 - 150
Imidacloprid	106		P	40 - 150
Linuron	88.6		P	40 - 150
Mandestrobin	97.8		P	40 - 150
MCPP	106		P	40 - 150
Naproxen	73.4		P	40 - 150
Primidone	98.5		P	40 - 150
Pyraclostrobin	90.1		P	40 - 150
Silvex	97.5		P	40 - 150
Thiamethoxam	104		P	40 - 150
Tolfenpyrad	54.1		P	30 - 150
Triclopyr	85.0		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P417651

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	101		P	40 - 150
Aldicarb	56.9		P	30 - 150
Aldicarb Sulfone	110		P	40 - 150
Aldicarb Sulfoxide	88.2		P	40 - 150
Carbaryl	98.3		P	40 - 150
Carbofuran	88.1		P	40 - 150
Methiocarb	93.4		P	40 - 150
Methomyl	89.3		P	40 - 150
Oxamyl	98.7		P	40 - 150
Propoxur	92.0		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P417841

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	100		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P417846

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

Reference Method: SM 5310 B-2011
Batch ID: P417762

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

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P417540

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345168	Calcium	105		P	80 - 120
2345168	Iron	104	99.5	P/P	80 - 120
2345168	Magnesium	104	98.2	P/P	80 - 120
2345168	Potassium	108	99.6	P/P	80 - 120
2345168	Sodium	111	101	P/P	80 - 120
2345168	Strontium	107	101	P/P	80 - 120
2345168	Tin	105	101	P/P	80 - 120
2345168	Titanium	107	101	P/P	80 - 120
2345168	Vanadium	105	98.9	P/P	80 - 120
2345168	Zinc	105	99.7	P/P	80 - 120
2345248	Calcium	107		P	80 - 120
2345248	Iron	104		P	80 - 120
2345248	Magnesium	105		P	80 - 120
2345248	Potassium	106		P	80 - 120
2345248	Sodium	105		P	80 - 120
2345248	Strontium	109		P	80 - 120
2345248	Tin	106		P	80 - 120
2345248	Titanium	108		P	80 - 120
2345248	Vanadium	108		P	80 - 120
2345248	Zinc	107		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P417540

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345168	Aluminum	93.1	97.7	P/P	80 - 120
2345168	Antimony	101	104	P/P	80 - 120
2345168	Arsenic	96.6	101	P/P	80 - 120
2345168	Barium	101	105	P/P	80 - 120
2345168	Beryllium	92.8	93.6	P/P	80 - 120
2345168	Boron	93.8	98.8	P/P	80 - 120
2345168	Cadmium	96.5	98.6	P/P	80 - 120
2345168	Chromium	98.2	98.5	P/P	80 - 120
2345168	Cobalt	94.2	97.6	P/P	80 - 120
2345168	Copper	95.2	98.2	P/P	80 - 120
2345168	Lead	92.1	95.3	P/P	80 - 120
2345168	Manganese	96.4	100	P/P	80 - 120
2345168	Molybdenum	94.7	98.0	P/P	80 - 120
2345168	Nickel	94.6	98.4	P/P	80 - 120
2345168	Selenium	94.3	98.2	P/P	80 - 120
2345168	Silver	94.4	95.6	P/P	80 - 120
2345168	Thallium	96.9	100	P/P	80 - 120
2345248	Aluminum	97.1		P	80 - 120
2345248	Antimony	101		P	80 - 120
2345248	Arsenic	98.6		P	80 - 120
2345248	Barium	102		P	80 - 120
2345248	Beryllium	88.7		P	80 - 120
2345248	Boron	101		P	80 - 120
2345248	Cadmium	98.6		P	80 - 120
2345248	Chromium	97.8		P	80 - 120
2345248	Cobalt	91.7		P	80 - 120
2345248	Copper	98.2		P	80 - 120

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P417540

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345248	Lead	94.2		P	80 - 120
2345248	Manganese	96.7		P	80 - 120
2345248	Molybdenum	97.8		P	80 - 120
2345248	Nickel	96.5		P	80 - 120
2345248	Selenium	93.0		P	80 - 120
2345248	Silver	95.1		P	80 - 120
2345248	Thallium	98.8		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417882

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344988	Chloride	96.5		P	90 - 110
2345203	Chloride	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417887

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344988	Sulfate	94.0		P	90 - 110
2345203	Sulfate	94.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418025

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345933	Sulfate	89.6		F	90 - 110
2346142	Sulfate	92.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417771

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345111	Ammonia-N	97.0	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417796

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345668	Kjeldahl Nitrogen	94.4	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417649

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345199	NO2NO3-N	100	98.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417738

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345164	Total-P	103	104	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417739

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345207	Total-P	105	104	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P417489

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345177	Aldrin	50.0	50.8	P/P	20 - 82.0
2345177	Alpha-BHC	91.8	80.7	P/P	71 - 109
2345177	Alpha-Chlordane	70.2	73.6	P/P	42 - 106
2345177	Beta-BHC	116	111	P/P	69 - 180
2345177	Beta-Cyfluthrin	117	148	P/P	18 - 175
2345177	Bifenthrin	84.8	97.5	P/P	21 - 128
2345177	Chlorothalonil	153	141	P/P	10 - 300
2345177	Cis-Nonachlor	80.9	68.0	P/P	34 - 106
2345177	Cypermethrin	90.7	127	P/P	22 - 158
2345177	Dacthal	91.2	80.5	P/P	54 - 116
2345177	DDD-p,p'	79.8	60.2	P/P	34 - 107
2345177	DDE-p,p'	78.3	66.9	P/P	33 - 110
2345177	DDT-p,p'	78.1	73.9	P/P	50 - 122
2345177	Delta-BHC	115	108	P/P	77 - 193
2345177	Deltamethrin	157	190	P/P	10 - 195
2345177	Dichlobenil	89.5	73.2	P/P	25 - 113
2345177	Dicofol	85.0	97.3	P/P	38 - 247
2345177	Dieldrin	83.5	67.8	P/P	45 - 118
2345177	Endosulfan I	78.8	70.3	P/P	51 - 106
2345177	Endosulfan II	82.6	69.8	P/P	37 - 122
2345177	Endosulfan Sulfate	126	138	P/F	43 - 132
2345177	Endrin	82.5	72.4	P/P	29 - 101
2345177	Endrin Aldehyde	80.6	70.7	P/P	19 - 110
2345177	Endrin Ketone	97.1	87.0	P/P	60 - 140
2345177	Esfenvalerate	136	164	P/P	26 - 199
2345177	Ethalfluralin	75.1	70.3	P/P	45 - 99.0
2345177	Fenpropathrin	107	97.8	P/P	35 - 120
2345177	Gamma-BHC	94.4	89.2	P/P	63 - 128
2345177	Gamma-Chlordane	75.8	67.9	P/P	40 - 104
2345177	Heptachlor	63.0	61.1	P/P	36 - 97.0
2345177	Heptachlor Epoxide	76.1	68.0	P/P	49 - 184
2345177	Hexachlorobenzene	77.5	69.5	P/P	39 - 96.0
2345177	Kepone	29.6	25.9	P/P	10 - 217
2345177	Lambda-Cyhalothrin	105	116	P/P	21 - 193
2345177	Methoprene	66.1	64.0	P/P	20 - 106
2345177	Methoxychlor	94.7	95.2	P/P	53 - 118
2345177	MGK-264	73.1	64.4	P/P	40 - 118
2345177	Mirex	70.6	67.5	P/P	26 - 92.0
2345177	Oxychlordane	67.5	64.6	P/P	44 - 99.0
2345177	Permethrin	92.7	122	P/P	33 - 182
2345177	Phenothrin	75.4	88.6	P/P	10 - 129
2345177	Piperonyl Butoxide	129	121	P/P	10 - 211
2345177	Prallethrin	76.1	60.7	P/P	24 - 113
2345177	Tau-Fluvalinate	119	185	P/F	14 - 149
2345177	Tetramethrin	98.5	88.6	P/P	17 - 151
2345177	Trans-Nonachlor	69.4	69.8	P/P	42 - 102

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P417489

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345177	Triclosan Methyl	80.7	77.7	P/P	48 - 108
2345177	Trifluralin	72.4	65.3	P/P	47 - 96.0
2345243	PCB-1016	81.9	96.3	P/P	46 - 111
2345243	PCB-1260	82.2	88.7	P/P	45 - 114

Reference Method: EPA 8270E
Batch ID: P417604

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345169	Acetochlor	111	101	P/P	65 - 124
2345169	Alachlor	99.2	90.5	P/P	61 - 121
2345169	Ametryn	115	103	P/P	52 - 216
2345169	Atrazine Desethyl	70.2	67.2	P/P	15 - 160
2345169	Azinphos Methyl	114	101	P/P	40 - 292
2345169	Azoxystrobin	144	129	P/P	12 - 242
2345169	Bromacil	81.3	72.2	P/P	54 - 167
2345169	Butylate	50.3	52.5	P/P	14 - 94.0
2345169	Caffeine	92.7	87.4	P/P	10 - 226
2345169	Carbophenothion	72.0	70.1	P/P	49 - 122
2345169	Carfentrazone Ethyl	105	90.8	P/P	53 - 138
2345169	Chlorfenapyr	74.1	60.5	P/P	50 - 150
2345169	Chlorpyrifos Ethyl	93.6	83.4	P/P	52 - 122
2345169	Chlorpyrifos Methyl	99.0	94.6	P/P	66 - 117
2345169	Coumaphos	68.8	60.6	P/P	50 - 220
2345169	Cyanazine	116	106	P/P	43 - 245
2345169	Cyprodinil	108	94.4	P/P	50 - 150
2345169	Demeton	123	115	P/P	43 - 188
2345169	Diazinon	104	102	P/P	69 - 131
2345169	Difenoconazole	158	151	P/P	34 - 231
2345169	Dimethenamid	84.5	77.9	P/P	55 - 118
2345169	Dimethomorph	126	113	P/P	50 - 150
2345169	Disulfoton	109	96.8	P/P	38 - 141
2345169	Dithiopyr	104	94.3	P/P	42 - 116
2345169	EPTC	54.3	55.5	P/P	18 - 85.0
2345169	Ethion	44.9	45.9	P/P	10 - 131
2345169	Ethoprop	113	107	P/P	65 - 129
2345169	Etridiazole	66.0	62.2	P/P	50 - 150
2345169	Fenamiphos	72.1	81.1	P/P	31 - 137
2345169	Fenbuconazole	92.2	83.8	P/P	57 - 160
2345169	Fipronil	100	92.0	P/P	62 - 132
2345169	Fipronil Desulfinyl	111	99.1	P/P	57 - 131
2345169	Fipronil Sulfide	95.1	91.6	P/P	15 - 138
2345169	Fipronil Sulfone	79.2	69.3	P/P	21 - 134
2345169	Fluazifop-P-butyl	104	90.7	P/P	54 - 133
2345169	Fludioxonil	92.2	77.7	P/P	58 - 127
2345169	Flumioxazin	114	106	P/P	33 - 300
2345169	Flutolanil	107	94.6	P/P	42 - 130
2345169	Fluxapyroxad	80.2	76.4	P/P	23 - 141
2345169	Fonofos	102	96.6	P/P	58 - 119
2345169	Hexazinone	106	96.3	P/P	68 - 172
2345169	Imazalil	87.5	91.4	P/P	48 - 283
2345169	Iprodione	85.5	78.9	P/P	38 - 140

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P417604

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345169	Loratadine	160	143	F/P	50 - 150
2345169	Malathion	119	108	P/P	40 - 137
2345169	Metalaxyl	99.6	91.3	P/P	21 - 129
2345169	Metolachlor	102	98.4	P/P	55 - 122
2345169	Metribuzin	113	104	P/P	38 - 187
2345169	Mevinphos	95.6	91.1	P/P	54 - 134
2345169	Molinate	69.1	68.0	P/P	41 - 97.0
2345169	Myclobutanil	106	89.6	P/P	56 - 125
2345169	Naled	74.1	78.8	P/P	10 - 108
2345169	Napropamide	70.8	68.6	P/P	50 - 150
2345169	Norflurazon	87.3	85.4	P/P	32 - 122
2345169	Oxadiazon	85.4	82.4	P/P	40 - 119
2345169	Oxyfluorfen	101	99.7	P/P	61 - 153
2345169	Parathion Ethyl	101	98.4	P/P	59 - 130
2345169	Parathion Methyl	138	127	P/P	65 - 155
2345169	Pendimethalin	104	99.4	P/P	49 - 138
2345169	Phenytoin	28.9	28.6	F/F	50 - 200
2345169	Phorate	83.1	84.5	P/P	54 - 161
2345169	Prodiamine	56.6	47.4	P/P	33 - 161
2345169	Prometon	90.9	86.0	P/P	48 - 140
2345169	Prometryn	108	96.2	P/P	55 - 134
2345169	Pronamide	126	116	P/P	66 - 137
2345169	Propanil	102	92.6	P/P	50 - 150
2345169	Propargite	57.0	55.9	P/P	50 - 200
2345169	Propiconazole	92.1	84.4	P/P	36 - 150
2345169	Pyraflufen Ethyl	88.7	78.0	P/P	50 - 150
2345169	Pyridaben	75.3	66.8	P/P	50 - 200
2345169	Pyriproxyfen	66.4	69.4	P/P	10 - 165
2345169	Simazine	104	95.3	P/P	57 - 145
2345169	Stirophos	50.9	53.4	P/P	50 - 150
2345169	Sulfentrazone	89.3	80.4	P/P	34 - 140
2345169	Tebuconazole	46.1	44.5	P/P	10 - 127
2345169	Terbufos	130	118	P/P	59 - 138
2345169	Terbuthylazine	104	93.8	P/P	68 - 119
2345169	Thiobencarb	93.0	85.8	P/P	50 - 150
2345169	Triadimefon	97.5	90.3	P/P	50 - 150

Reference Method: EPA 8276
Batch ID: P417489

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345243	Chlordane	96.3	107	P/P	53 - 126
2345243	Toxaphene	99.1	113	P/P	56 - 211

Reference Method: EPA 8321B
Batch ID: P417520

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345138	Acesulfame K	82.1	84.5	P/P	40 - 150
2345138	AMPA	45.2	43.7	P/P	40 - 150
2345138	Endothall	94.2	97.1	P/P	40 - 150
2345138	Glufosinate	50.5	48.2	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P417520

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345138	Glyphosate	64.2	68.3	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P417606

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345138	2,4-D	86.4	81.9	P/P	40 - 150
2345138	2,4,5-T	72.1	70.0	P/P	40 - 150
2345138	Acetaminophen	34.7	40.0	P/P	30 - 150
2345138	Acetamiprid	75.5	86.4	P/P	40 - 150
2345138	Afidopyropen	85.9	92.4	P/P	30 - 150
2345138	Benzovindiflupyr	94.4	96.5	P/P	40 - 150
2345138	Clothianidin	105	90.5	P/P	40 - 150
2345138	Diuron	72.0	80.8	P/P	40 - 150
2345138	Fenuron	88.1	86.2	P/P	40 - 150
2345138	Fluridone	101	94.4	P/P	40 - 150
2345138	Hydrocodone	104	99.8	P/P	40 - 150
2345138	Ibuprofen	89.7	96.0	P/P	40 - 150
2345138	Imazapyr	64.5	59.9	P/P	40 - 150
2345138	Linuron	121	124	P/P	40 - 150
2345138	Mandestrobin	94.8	92.2	P/P	40 - 150
2345138	MCPP	88.0	81.3	P/P	40 - 150
2345138	Naproxen	53.4	65.6	P/P	40 - 150
2345138	Pyraclostrobin	94.0	92.0	P/P	40 - 150
2345138	Silvex	98.1	90.4	P/P	40 - 150
2345138	Thiamethoxam	134	141	P/P	40 - 150
2345138	Tolfenpyrad	59.7	56.4	P/P	30 - 150
2345138	Triclopyr	75.0	69.9	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P417651

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345134	3-Hydroxycarbofuran	109	118	P/P	40 - 150
2345134	Aldicarb	70.4	58.0	P/P	30 - 150
2345134	Aldicarb Sulfone	127	134	P/P	40 - 150
2345134	Aldicarb Sulfoxide	39.7	46.5	F/P	40 - 150
2345134	Carbaryl	75.1	68.6	P/P	40 - 150
2345134	Carbofuran	80.0	81.1	P/P	40 - 150
2345134	Methiocarb	87.0	78.0	P/P	40 - 150
2345134	Methomyl	80.7	80.4	P/P	40 - 150
2345134	Oxamyl	97.4	97.1	P/P	40 - 150
2345134	Propoxur	72.9	72.0	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P417846

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345203	Fluoride	99.8	100	P/P	94 - 104

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P417762

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345344	Organic Carbon	94.7	96.7	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P417576

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345198	Color (true)	1.42	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P417587

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345198	Turbidity	9.00	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P417540

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345168	Calcium	5.38	Spike	P	0 - 20
2345168	Iron	4.23	Spike	P	0 - 20
2345168	Magnesium	4.35	Spike	P	0 - 20
2345168	Potassium	6.14	Spike	P	0 - 20
2345168	Sodium	4.99	Spike	P	0 - 20
2345168	Strontium	5.89	Spike	P	0 - 20
2345168	Tin	4.00	Spike	P	0 - 20
2345168	Titanium	5.78	Spike	P	0 - 20
2345168	Vanadium	6.31	Spike	P	0 - 20
2345168	Zinc	5.32	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P417540

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345168	Aluminum	4.78	Spike	P	0 - 20
2345168	Antimony	3.49	Spike	P	0 - 20
2345168	Arsenic	4.50	Spike	P	0 - 20
2345168	Barium	3.51	Spike	P	0 - 20
2345168	Beryllium	0.886	Spike	P	0 - 20
2345168	Boron	4.34	Spike	P	0 - 20
2345168	Cadmium	2.11	Spike	P	0 - 20
2345168	Chromium	0.370	Spike	P	0 - 20
2345168	Cobalt	3.59	Spike	P	0 - 20
2345168	Copper	2.80	Spike	P	0 - 20
2345168	Lead	3.37	Spike	P	0 - 20
2345168	Manganese	3.59	Spike	P	0 - 20
2345168	Molybdenum	3.24	Spike	P	0 - 20
2345168	Nickel	3.94	Spike	P	0 - 20
2345168	Selenium	4.13	Spike	P	0 - 20
2345168	Silver	1.36	Spike	P	0 - 20
2345168	Thallium	3.48	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417882

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344988	Chloride	2.44	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417887

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344988	Sulfate	3.34	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418025

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345933	Sulfate	0.108	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417659

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345199	Ammonia-N	0.556	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417771

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345111	Ammonia-N	2.81	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417677

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345443	Kjeldahl Nitrogen	10.8	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417714

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345205	Kjeldahl Nitrogen	7.72	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417796

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345668	Kjeldahl Nitrogen	5.33	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417649

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345199	NO2NO3-N	1.10	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417738

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345164	Total-P	1.44	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417739

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345207	Total-P	0.722	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P417489

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345177	Aldrin	1.75	Spike	P	0 - 41
2345177	Alpha-BHC	12.9	Spike	P	0 - 25
2345177	Alpha-Chlordane	4.76	Spike	P	0 - 33
2345177	Beta-BHC	3.96	Spike	P	0 - 36
2345177	Beta-Cyfluthrin	23.4	Spike	P	0 - 42
2345177	Bifenthrin	14.0	Spike	P	0 - 53
2345177	Chlorothalonil	8.35	Spike	P	0 - 71
2345177	Cis-Nonachlor	17.2	Spike	P	0 - 29
2345177	Cypermethrin	33.4	Spike	P	0 - 40
2345177	Dacthal	12.4	Spike	P	0 - 26
2345177	DDD-p,p'	28.0	Spike	P	0 - 39
2345177	DDE-p,p'	15.7	Spike	P	0 - 33
2345177	DDT-p,p'	5.52	Spike	P	0 - 40
2345177	Delta-BHC	6.52	Spike	P	0 - 37
2345177	Deltamethrin	19.0	Spike	P	0 - 100
2345177	Dichlobenil	20.0	Spike	P	0 - 40
2345177	Dicofol	13.5	Spike	P	0 - 31
2345177	Dieldrin	20.7	Spike	P	0 - 27
2345177	Endosulfan I	11.5	Spike	P	0 - 23
2345177	Endosulfan II	16.8	Spike	P	0 - 28
2345177	Endosulfan Sulfate	9.34	Spike	P	0 - 38
2345177	Endrin	12.9	Spike	P	0 - 63
2345177	Endrin Aldehyde	13.1	Spike	P	0 - 60
2345177	Endrin Ketone	11.0	Spike	P	0 - 37
2345177	Esfenvalerate	18.3	Spike	P	0 - 52
2345177	Ethalfluralin	6.57	Spike	P	0 - 23
2345177	Fenpropathrin	8.53	Spike	P	0 - 32
2345177	Gamma-BHC	5.72	Spike	P	0 - 17
2345177	Gamma-Chlordane	11.0	Spike	P	0 - 40
2345177	Heptachlor	3.06	Spike	P	0 - 29

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P417489

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345177	Heptachlor Epoxide	11.3	Spike	P	0 - 25
2345177	Hexachlorobenzene	10.8	Spike	P	0 - 36
2345177	Kepone	13.3	Spike	P	0 - 93
2345177	Lambda-Cyhalothrin	10.4	Spike	P	0 - 55
2345177	Methoprene	3.23	Spike	P	0 - 53
2345177	Methoxychlor	0.492	Spike	P	0 - 29
2345177	MGK-264	12.7	Spike	P	0 - 35
2345177	Mirex	4.40	Spike	P	0 - 46
2345177	Oxychlordane	4.34	Spike	P	0 - 29
2345177	Permethrin	27.3	Spike	P	0 - 44
2345177	Phenothrin	16.1	Spike	P	0 - 56
2345177	Piperonyl Butoxide	5.77	Spike	P	0 - 100
2345177	Prallethrin	22.6	Spike	P	0 - 42
2345177	Tau-Fluvalinate	43.5	Spike	P	0 - 54
2345177	Tetramethrin	10.6	Spike	P	0 - 51
2345177	Trans-Nonachlor	0.671	Spike	P	0 - 37
2345177	Triclosan Methyl	3.78	Spike	P	0 - 31
2345177	Trifluralin	10.2	Spike	P	0 - 30
2345243	PCB-1016	16.2	Spike	P	0 - 32
2345243	PCB-1260	7.65	Spike	P	0 - 31

Reference Method: EPA 8270E
Batch ID: P417604

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345169	Acetochlor	9.24	Spike	P	0 - 27
2345169	Alachlor	9.17	Spike	P	0 - 27
2345169	Ametryn	10.5	Spike	P	0 - 34
2345169	Atrazine	5.61	Spike	P	0 - 41
2345169	Atrazine Desethyl	3.43	Spike	P	0 - 38
2345169	Azinphos Methyl	12.0	Spike	P	0 - 62
2345169	Azoxystrobin	9.49	Spike	P	0 - 32
2345169	Bromacil	11.9	Spike	P	0 - 30
2345169	Butylate	4.32	Spike	P	0 - 59
2345169	Caffeine	5.87	Spike	P	0 - 60
2345169	Carbophenothion	2.69	Spike	P	0 - 25
2345169	Carfentrazone Ethyl	14.2	Spike	P	0 - 26
2345169	Chlorfenapyr	20.2	Spike	P	0 - 30
2345169	Chlorpyrifos Ethyl	11.5	Spike	P	0 - 27
2345169	Chlorpyrifos Methyl	4.49	Spike	P	0 - 26
2345169	Coumaphos	12.8	Spike	P	0 - 30
2345169	Cyanazine	9.05	Spike	P	0 - 58
2345169	Cyprodinil	13.5	Spike	P	0 - 30
2345169	Demeton	6.18	Spike	P	0 - 25
2345169	Diazinon	2.05	Spike	P	0 - 29
2345169	Difenoconazole	4.64	Spike	P	0 - 25
2345169	Dimethenamid	8.08	Spike	P	0 - 30
2345169	Dimethomorph	11.5	Spike	P	0 - 30
2345169	Disulfoton	11.5	Spike	P	0 - 33
2345169	Dithiopyr	10.1	Spike	P	0 - 22

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P417604

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345169	EPTC	2.15	Spike	P	0 - 38
2345169	Ethion	2.16	Spike	P	0 - 79
2345169	Ethoprop	6.21	Spike	P	0 - 23
2345169	Etridiazole	5.79	Spike	P	0 - 30
2345169	Fenamiphos	11.7	Spike	P	0 - 58
2345169	Fenbuconazole	9.49	Spike	P	0 - 37
2345169	Fipronil	8.47	Spike	P	0 - 33
2345169	Fipronil Desulfinyl	10.1	Spike	P	0 - 26
2345169	Fipronil Sulfide	3.74	Spike	P	0 - 37
2345169	Fipronil Sulfone	11.7	Spike	P	0 - 50
2345169	Fluazifop-P-butyl	13.9	Spike	P	0 - 24
2345169	Fludioxonil	17.0	Spike	P	0 - 26
2345169	Flumioxazin	6.72	Spike	P	0 - 37
2345169	Flutolanil	12.5	Spike	P	0 - 26
2345169	Fluxapyroxad	4.86	Spike	P	0 - 34
2345169	Fonofos	5.14	Spike	P	0 - 27
2345169	Hexazinone	9.39	Spike	P	0 - 36
2345169	Imazalil	4.31	Spike	P	0 - 65
2345169	Iprodione	8.09	Spike	P	0 - 33
2345169	Loratadine	11.1	Spike	P	0 - 30
2345169	Malathion	9.73	Spike	P	0 - 44
2345169	Metalaxyl	8.74	Spike	P	0 - 38
2345169	Metolachlor	3.92	Spike	P	0 - 36
2345169	Metribuzin	8.07	Spike	P	0 - 63
2345169	Mevinphos	4.84	Spike	P	0 - 26
2345169	Molinate	1.47	Spike	P	0 - 40
2345169	Myclobutanil	16.7	Spike	P	0 - 21
2345169	Naled	6.08	Spike	P	0 - 26
2345169	Napropamide	3.12	Spike	P	0 - 30
2345169	Norflurazon	2.17	Spike	P	0 - 24
2345169	Oxadiazon	2.86	Spike	P	0 - 27
2345169	Oxyfluorfen	1.44	Spike	P	0 - 24
2345169	Parathion Ethyl	2.56	Spike	P	0 - 28
2345169	Parathion Methyl	8.03	Spike	P	0 - 27
2345169	Pendimethalin	4.91	Spike	P	0 - 31
2345169	Phenytoin	0.778	Spike	P	0 - 30
2345169	Phorate	1.75	Spike	P	0 - 27
2345169	Prodiamine	17.7	Spike	P	0 - 52
2345169	Prometon	5.51	Spike	P	0 - 31
2345169	Prometryn	11.6	Spike	P	0 - 28
2345169	Pronamide	8.67	Spike	P	0 - 26
2345169	Propanil	9.92	Spike	P	0 - 30
2345169	Propargite	1.96	Spike	P	0 - 30
2345169	Propiconazole	8.77	Spike	P	0 - 31
2345169	Pyraflufen Ethyl	12.8	Spike	P	0 - 30
2345169	Pyridaben	7.74	Spike	P	0 - 30
2345169	Pyriproxyfen	4.40	Spike	P	0 - 50
2345169	Simazine	8.71	Spike	P	0 - 29
2345169	Stirophos	4.76	Spike	P	0 - 30
2345169	Sulfentrazone	10.4	Spike	P	0 - 33
2345169	Tebuconazole	3.44	Spike	P	0 - 44

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P417604

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345169	Terbufos	9.41	Spike	P	0 - 29
2345169	Terbuthylazine	10.5	Spike	P	0 - 27
2345169	Thiobencarb	8.05	Spike	P	0 - 30
2345169	Triadimefon	7.62	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P417489

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345243	Chlordane	10.3	Spike	P	0 - 25
2345243	Toxaphene	13.0	Spike	P	0 - 26

Reference Method: EPA 8321B
Batch ID: P417520

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345138	Acesulfame K	2.96	Spike	P	0 - 30
2345138	AMPA	3.37	Spike	P	0 - 30
2345138	Endothall	3.04	Spike	P	0 - 30
2345138	Glufosinate	4.69	Spike	P	0 - 30
2345138	Glyphosate	6.08	Spike	P	0 - 30
2345138	Sucralose	3.64	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P417606

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345138	2,4-D	4.33	Spike	P	0 - 30
2345138	2,4,5-T	2.92	Spike	P	0 - 30
2345138	Acetaminophen	14.3	Spike	P	0 - 30
2345138	Acetamiprid	11.8	Spike	P	0 - 30
2345138	Afidopyropen	7.31	Spike	P	0 - 30
2345138	Bentazon	8.17	Spike	P	0 - 30
2345138	Benzovindiflupyr	2.26	Spike	P	0 - 30
2345138	Carbamazepine	0.0370	Spike	P	0 - 30
2345138	Clothianidin	10.3	Spike	P	0 - 30
2345138	Dinotefuran	2.10	Spike	P	0 - 30
2345138	Diuron	7.73	Spike	P	0 - 30
2345138	Fenuron	2.16	Spike	P	0 - 30
2345138	Fluridone	5.98	Spike	P	0 - 30
2345138	Hydrocodone	4.05	Spike	P	0 - 30
2345138	Ibuprofen	6.79	Spike	P	0 - 30
2345138	Imazapyr	4.66	Spike	P	0 - 30
2345138	Imidacloprid	3.20	Spike	P	0 - 30
2345138	Linuron	2.34	Spike	P	0 - 30
2345138	Mandestrobin	2.84	Spike	P	0 - 30
2345138	MCPP	7.82	Spike	P	0 - 30
2345138	Naproxen	20.5	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P417606

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345138	Primidone	3.82	Spike	P	0 - 30
2345138	Pyraclostrobin	2.08	Spike	P	0 - 30
2345138	Silvex	8.17	Spike	P	0 - 30
2345138	Thiamethoxam	5.22	Spike	P	0 - 30
2345138	Tolfenpyrad	5.75	Spike	P	0 - 30
2345138	Triclopyr	7.03	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P417651

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345134	3-Hydroxycarbofuran	8.12	Spike	P	0 - 30
2345134	Aldicarb	19.3	Spike	P	0 - 30
2345134	Aldicarb Sulfone	5.47	Spike	P	0 - 30
2345134	Aldicarb Sulfoxide	15.8	Spike	P	0 - 30
2345134	Carbaryl	9.13	Spike	P	0 - 30
2345134	Carbofuran	1.46	Spike	P	0 - 30
2345134	Methiocarb	10.9	Spike	P	0 - 30
2345134	Methomyl	0.384	Spike	P	0 - 30
2345134	Oxamyl	0.215	Spike	P	0 - 30
2345134	Propoxur	1.33	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P417841

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345203	Total Alkalinity	1.40	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P417986

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345201	TDS	3.06	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P417846

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345203	Fluoride	0.516	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P417762

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345344	Organic Carbon	1.17	Spike	P	0 - 20

Quality Assurance Report
Precision

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2345231
Field Sample ID: G1TLHR0157

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	112	P	30 - 160
EPA 8321B	Acetaminophen-d4	58.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	114	P	30 - 160
EPA 8321B	Diuron-d6	94.9	P	30 - 160
EPA 8321B	Endothall-d6	112	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	94.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	90.1	P	30 - 160
EPA 8321B	Primidone-d5	107	P	30 - 160
EPA 8321B	Sucralose-d6	113	P	30 - 160

Lab Sample ID: 2345232
Field Sample ID: G1TLHR0158

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	106	P	30 - 160
EPA 8321B	Acetaminophen-d4	54.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	118	P	30 - 160
EPA 8321B	Diuron-d6	97.0	P	30 - 160
EPA 8321B	Endothall-d6	110	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	98.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	67.3	P	30 - 160
EPA 8321B	Primidone-d5	115	P	30 - 160
EPA 8321B	Sucralose-d6	112	P	30 - 160

Lab Sample ID: 2345233
Field Sample ID: G1TLHR0165

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	102	P	30 - 160
EPA 8321B	Acetaminophen-d4	54.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	115	P	30 - 160
EPA 8321B	Diuron-d6	84.7	P	30 - 160
EPA 8321B	Endothall-d6	115	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	94.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	69.6	P	30 - 160
EPA 8321B	Primidone-d5	117	P	30 - 160
EPA 8321B	Sucralose-d6	114	P	30 - 160

Lab Sample ID: 2345234
Field Sample ID: G1TLHR0160

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	89.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	39.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	106	P	30 - 160
EPA 8321B	Diuron-d6	86.4	P	30 - 160
EPA 8321B	Endothall-d6	135	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	130	P	30 - 160
EPA 8321B	Ibuprofen-d3	65.1	P	30 - 160
EPA 8321B	Primidone-d5	115	P	30 - 160
EPA 8321B	Sucralose-d6	112	P	30 - 160

Quality Assurance Report
Surrogates

Lab Sample ID: 2345235
Field Sample ID: G1TLHR0190

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	88.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	37.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	106	P	30 - 160
EPA 8321B	Diuron-d6	81.0	P	30 - 160
EPA 8321B	Endothall-d6	109	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	91.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	66.6	P	30 - 160
EPA 8321B	Primidone-d5	99.1	P	30 - 160
EPA 8321B	Sucralose-d6	112	P	30 - 160

Lab Sample ID: 2345236
Field Sample ID: G1TLHR0161

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	93.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	48.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	110	P	30 - 160
EPA 8321B	Diuron-d6	95.2	P	30 - 160
EPA 8321B	Endothall-d6	130	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	117	P	30 - 160
EPA 8321B	Ibuprofen-d3	66.2	P	30 - 160
EPA 8321B	Primidone-d5	106	P	30 - 160
EPA 8321B	Sucralose-d6	114	P	30 - 160

Lab Sample ID: 2345237
Field Sample ID: G1TLHR0162

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	84.8	P	30 - 160

Lab Sample ID: 2345238
Field Sample ID: G1TLHR0162

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	96.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	49.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	113	P	30 - 160
EPA 8321B	Diuron-d6	86.4	P	30 - 160
EPA 8321B	Endothall-d6	118	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	92.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	71.8	P	30 - 160
EPA 8321B	Primidone-d5	110	P	30 - 160
EPA 8321B	Sucralose-d6	114	P	30 - 160

Lab Sample ID: 2345239
Field Sample ID: G1TLHR0164

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	74.2	P	30 - 160

Quality Assurance Report
Surrogates

Lab Sample ID: 2345241
Field Sample ID: G1TLHR0162

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	82.8	P	29 - 130
EPA 8270E	Decachlorobiphenyl	93.6	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	69.1	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	53.2	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	76.5	P	30 - 101
EPA 8276	PCNB	91.2	P	48 - 121

Lab Sample ID: 2345242
Field Sample ID: G1TLHR0162

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	66.0	P	20 - 200
EPA 8270E	Simazine-d10	100	P	71 - 140
EPA 8270E	Terbufos-d10	89.3	P	62 - 131

Lab Sample ID: 2345243
Field Sample ID: G1TLHR0164

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	97.3	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	60.9	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	99.5	P	30 - 101
EPA 8276	PCNB	91.3	P	48 - 121

Lab Sample ID: 2345244
Field Sample ID: G1TLHR0164

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	52.9	P	20 - 200
EPA 8270E	Simazine-d10	87.4	P	71 - 140
EPA 8270E	Terbufos-d10	88.9	P	62 - 131

Quality Assurance Report
Calibration Verification

Reference Method: DEP SOP: NU-094-1
Run ID: A113879
Included Lab Sample IDs: 2345198, 2345200, 2345201, 2345202, 2345203

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	103	101	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A113882
Included Lab Sample IDs: 2345198, 2345200, 2345201, 2345202, 2345203

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

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A113887
Included Lab Sample IDs: 2345245, 2345246, 2345247, 2345248, 2345249, 2345250, 2345251, 2345252, 2345253

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	96.1	96.7	P/P	90 - 110
Aluminum	97.2	96.1	P/P	90 - 110
Antimony	100	98.9	P/P	90 - 110
Antimony	98.8	100	P/P	90 - 110
Arsenic	98.2	99.2	P/P	90 - 110
Arsenic	99.2	98.7	P/P	90 - 110
Barium	98.6	98.8	P/P	90 - 110
Barium	98.7	98.6	P/P	90 - 110
Beryllium	90.4	90.3	P/P	90 - 110
Beryllium	93.0	90.4	P/P	90 - 110
Boron	95.0	96.0	P/P	90 - 110
Boron	96.0	96.0	P/P	90 - 110
Cadmium	101	99.9	P/P	90 - 110
Cadmium	98.9	101	P/P	90 - 110
Chromium	97.9	98.1	P/P	90 - 110
Copper	97.5	98.2	P/P	90 - 110
Copper	98.2	97.3	P/P	90 - 110
Lead	90.3	91.5	P/P	90 - 110
Lead	91.5	90.8	P/P	90 - 110
Manganese	97.7	96.9	P/P	90 - 110
Manganese	97.7	97.7	P/P	90 - 110
Molybdenum	95.2	95.8	P/P	90 - 110
Molybdenum	95.8	95.6	P/P	90 - 110
Nickel	96.6	96.4	P/P	90 - 110
Nickel	96.8	96.6	P/P	90 - 110
Selenium	95.7	98.0	P/P	90 - 110
Selenium	96.8	95.7	P/P	90 - 110
Silver	96.1	97.7	P/P	90 - 110
Silver	97.7	97.3	P/P	90 - 110
Thallium	95.1	96.2	P/P	90 - 110
Thallium	96.2	94.6	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A113903
Included Lab Sample IDs: 2345245, 2345246, 2345247, 2345248, 2345249, 2345250, 2345251, 2345252, 2345253

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A113903
Included Lab Sample IDs: 2345245, 2345246, 2345247, 2345248, 2345249, 2345250, 2345251, 2345252, 2345253

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	104	104	P/P	90 - 110
Calcium	104	104	P/P	90 - 110
Iron	99.4	99.8	P/P	90 - 110
Iron	99.8	97.9	P/P	90 - 110
Magnesium	100	98.9	P/P	90 - 110
Magnesium	99.9	100	P/P	90 - 110
Potassium	105	104	P/P	90 - 110
Potassium	105	105	P/P	90 - 110
Sodium	102	101	P/P	90 - 110
Sodium	102	102	P/P	90 - 110
Strontium	102	101	P/P	90 - 110
Strontium	102	102	P/P	90 - 110
Tin	100	101	P/P	90 - 110
Tin	101	99.4	P/P	90 - 110
Titanium	102	99.7	P/P	90 - 110
Titanium	99.7	99.4	P/P	90 - 110
Vanadium	101	99.9	P/P	90 - 110
Vanadium	101	101	P/P	90 - 110
Zinc	101	101	P/P	90 - 110
Zinc	101	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A113906
Included Lab Sample IDs: 2345199, 2345204, 2345205, 2345206, 2345207

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	102	P/P	90 - 110
NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A113912
Included Lab Sample IDs: 2345204, 2345205, 2345206, 2345207

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	104	100	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A113920
Included Lab Sample IDs: 2345245, 2345246, 2345247, 2345248, 2345249, 2345250, 2345251, 2345252, 2345253

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chromium	101	101	P/P	90 - 110
Chromium	101	101	P/P	90 - 110
Cobalt	93.7	93.9	P/P	90 - 110
Cobalt	94.8	93.7	P/P	90 - 110
Molybdenum	97.9	96.8	P/P	90 - 110
Molybdenum	98.6	97.9	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A113922
Included Lab Sample IDs: 2345231, 2345232, 2345233, 2345234, 2345235, 2345236, 2345238

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	105	107	P/P	50 - 150
2,4-D	107	99.5	P/P	50 - 150
2,4,5-T	111	94.3	P/P	50 - 150
2,4,5-T	93.2	111	P/P	50 - 150
Acetaminophen	100	101	P/P	60 - 160
Acetaminophen	108	100	P/P	60 - 160
Acetaminophen	98.0	96.6	P/P	60 - 160
Acetamiprid	101	88.1	P/P	50 - 150
Acetamiprid	95.5	101	P/P	50 - 150
Afidopyropen	105	114	P/P	50 - 150
Afidopyropen	114	91.4	P/P	50 - 150
Bentazon	93.6	98.6	P/P	50 - 160
Bentazon	96.0	99.3	P/P	50 - 160
Bentazon	99.3	99.3	P/P	50 - 160
Benzovindiflupyr	92.7	98.6	P/P	50 - 150
Benzovindiflupyr	98.6	98.4	P/P	50 - 150
Carbamazepine	103	104	P/P	60 - 150
Carbamazepine	105	103	P/P	60 - 150
Clothianidin	108	108	P/P	60 - 150
Clothianidin	96.0	108	P/P	60 - 150
Dinotefuran	105	105	P/P	50 - 150
Dinotefuran	105	102	P/P	50 - 150
Diuron	101	103	P/P	60 - 160
Diuron	103	112	P/P	60 - 160
Fenuron	97.2	98.3	P/P	60 - 150
Fenuron	99.6	97.2	P/P	60 - 150
Fluridone	108	112	P/P	60 - 160
Fluridone	111	108	P/P	60 - 160
Hydrocodone	105	95.1	P/P	60 - 150
Hydrocodone	95.1	101	P/P	60 - 150
Ibuprofen	114	78.2	P/P	50 - 160
Ibuprofen	91.6	114	P/P	50 - 160
Imazapyr	113	110	P/P	50 - 150
Imazapyr	117	113	P/P	50 - 150
Imidacloprid	94.7	94.3	P/P	60 - 150
Imidacloprid	95.9	99.1	P/P	60 - 150
Imidacloprid	97.9	95.9	P/P	60 - 150
Linuron	104	95.6	P/P	60 - 150
Linuron	113	104	P/P	60 - 150
Mandestrobin	104	106	P/P	50 - 150
Mandestrobin	106	105	P/P	50 - 150
MCPP	94.8	104	P/P	50 - 150
MCPP	97.0	94.8	P/P	50 - 150
Naproxen	70.2	86.4	P/P	50 - 160
Naproxen	86.4	68.4	P/P	50 - 160
Primidone	104	99.4	P/P	60 - 150
Primidone	99.4	96.4	P/P	60 - 150
Pyraclostrobin	102	102	P/P	60 - 150
Pyraclostrobin	102	102	P/P	60 - 150
Silvex	83.5	89.1	P/P	50 - 150
Silvex	99.9	83.5	P/P	50 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A113922
Included Lab Sample IDs: 2345231, 2345232, 2345233, 2345234, 2345235, 2345236, 2345238

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Thiamethoxam	104	102	P/P	50 - 150
Thiamethoxam	105	104	P/P	50 - 150
Tolfenpyrad	98.2	98.6	P/P	60 - 150
Tolfenpyrad	98.6	96.4	P/P	60 - 150
Triclopyr	91.1	93.9	P/P	50 - 150
Triclopyr	93.9	78.8	P/P	50 - 150

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A113942
Included Lab Sample IDs: 2345249, 2345253

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tin	97.6	101	P/P	90 - 110
Titanium	99.4	101	P/P	90 - 110
Vanadium	99.0	100	P/P	90 - 110
Zinc	97.4	96.9	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A113946
Included Lab Sample IDs: 2345241, 2345243

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	95.5		P	80 - 120
Alpha-BHC	104		P	80 - 120
Alpha-Chlordane	102		P	80 - 120
Beta-BHC	98.6		P	80 - 120
Beta-Cyfluthrin	110		P	80 - 120
Bifenthrin	113		P	80 - 120
Chlorothalonil	105		P	80 - 120
Cis-Nonachlor	106		P	80 - 120
Cypermethrin	98.7		P	80 - 120
Dacthal	105		P	80 - 120
DDD-p,p'	117		P	80 - 120
DDE-p,p'	102		P	80 - 120
DDT-p,p'	98.6		P	80 - 120
Delta-BHC	96.1		P	80 - 120
Deltamethrin	103		P	80 - 120
Dichlobenil	102		P	80 - 120
Dicofol	102		P	80 - 120
Dieldrin	99.2		P	80 - 120
Endosulfan I	105		P	80 - 120
Endosulfan II	104		P	80 - 120
Endosulfan Sulfate	102		P	80 - 120
Endrin	102		P	80 - 120
Endrin Aldehyde	99.8		P	80 - 120
Endrin Ketone	117		P	80 - 120
Esfenvalerate	117		P	80 - 120
Ethalfluralin	103		P	80 - 120
Fenpropathrin	111		P	80 - 120
Gamma-BHC	103		P	80 - 120
Gamma-Chlordane	99.6		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A113946
Included Lab Sample IDs: 2345241, 2345243

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Heptachlor	97.9		P	80 - 120
Heptachlor Epoxide	109		P	80 - 120
Hexachlorobenzene	109		P	80 - 120
Kepone	111		P	80 - 120
Lambda-Cyhalothrin	117		P	80 - 120
Methoprene	94.6		P	80 - 120
Methoxychlor	101		P	80 - 120
MGK-264	99.8		P	80 - 120
Mirex	107		P	80 - 120
Oxychlordane	110		P	80 - 120
Permethrin	108		P	80 - 120
Phenothrin	98.4		P	80 - 120
Piperonyl Butoxide	92.9		P	80 - 120
Prallethrin	105		P	80 - 120
Tau-Fluvalinate	101		P	80 - 120
Tetramethrin	116		P	80 - 120
Trans-Nonachlor	98.8		P	80 - 120
Triclosan Methyl	103		P	80 - 120
Trifluralin	96.4		P	80 - 120

Reference Method: EPA 8321B
Run ID: A113947
Included Lab Sample IDs: 2345231, 2345232, 2345233, 2345234, 2345235, 2345236, 2345238

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	102	98.3	P/P	60 - 160
Acesulfame K	98.3	102	P/P	60 - 160
Sucralose	116	114	P/P	60 - 160
Sucralose	119	116	P/P	60 - 160

Reference Method: EPA 8270E
Run ID: A113949
Included Lab Sample IDs: 2345241

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	99.9		P	80 - 120
PCB-1260	98.6		P	80 - 120

Reference Method: EPA 8321B
Run ID: A113950
Included Lab Sample IDs: 2345231, 2345232, 2345233, 2345234, 2345235, 2345236, 2345238

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	119	124	P/P	60 - 160
AMPA	124	123	P/P	60 - 160
AMPA	126	124	P/P	60 - 160
Endothall	95.3	96.2	P/P	60 - 160
Endothall	96.2	91.8	P/P	60 - 160
Glufosinate	104	117	P/P	60 - 160
Glufosinate	117	103	P/P	60 - 160
Glyphosate	110	117	P/P	60 - 160

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A113950
Included Lab Sample IDs: 2345231, 2345232, 2345233, 2345234, 2345235, 2345236, 2345238

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Glyphosate	118	118	P/P	60 - 160
Glyphosate	118	110	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A113954
Included Lab Sample IDs: 2345199, 2345204, 2345205, 2345206, 2345207

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	99.9	P/P	90 - 110
Total-P	101	101	P/P	90 - 110
Total-P	99.9	99.6	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A113961
Included Lab Sample IDs: 2345199, 2345204, 2345205, 2345206, 2345207

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.8	97.6	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A113967
Included Lab Sample IDs: 2345199

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	98.2	P/P	90 - 110

Reference Method: EPA 8276
Run ID: A113969
Included Lab Sample IDs: 2345241, 2345243

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	103		P	80 - 120
Chlordane	99.1		P	80 - 120
Toxaphene	102		P	80 - 120
Toxaphene	94.9		P	80 - 120

Reference Method: EPA 8321B
Run ID: A113978
Included Lab Sample IDs: 2345237, 2345239

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	107	73.8	P/P	60 - 150
Aldicarb	96.8	70.6	P/P	60 - 150
Aldicarb Sulfone	115	61.3	P/P	50 - 150
Aldicarb Sulfoxide	92.8	70.6	P/P	50 - 150
Carbaryl	110	71.7	P/P	60 - 150
Carbofuran	95.2	67.0	P/P	50 - 150
Methiocarb	132	70.8	P/P	50 - 150
Methomyl	99.7	79.6	P/P	50 - 150
Oxamyl	106	86.3	P/P	50 - 150
Propoxur	101	72.9	P/P	50 - 150

Quality Assurance Report
Calibration Verification

Reference Method: SM 2320 B-2011
Run ID: A113988
Included Lab Sample IDs: 2345198, 2345200, 2345201, 2345202, 2345203

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.3	99.7	P/P	90 - 110
Total Alkalinity	99.7	100	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A113988
Included Lab Sample IDs: 2345198, 2345200, 2345201, 2345202, 2345203

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

Reference Method: EPA 8270E
Run ID: A113993
Included Lab Sample IDs: 2345242, 2345244

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	97.3		P	80 - 120
Alachlor	96.7		P	80 - 120
Ametryn	95.7		P	80 - 120
Atrazine Desethyl	95.1		P	80 - 120
Azinphos Methyl	108		P	80 - 120
Azoxystrobin	101		P	80 - 120
Bromacil	90.0		P	80 - 120
Butylate	98.3		P	80 - 120
Caffeine	109		P	80 - 120
Carbophenothion	110		P	80 - 120
Carfentrazone Ethyl	95.6		P	80 - 120
Chlorfenapyr	107		P	80 - 120
Chlorpyrifos Ethyl	102		P	80 - 120
Chlorpyrifos Methyl	111		P	80 - 120
Coumaphos	108		P	80 - 120
Cyanazine	92.8		P	80 - 120
Cyprodinil	100		P	80 - 120
Demeton	114		P	80 - 120
Diazinon	98.9		P	80 - 120
Difenoconazole	104		P	80 - 120
Dimethenamid	95.8		P	80 - 120
Dimethomorph	85.9		P	80 - 120
Disulfoton	105		P	80 - 120
Dithiopyr	99.2		P	80 - 120
EPTC	98.9		P	80 - 120
Ethion	101		P	80 - 120
Ethoprop	98.3		P	80 - 120
Etridiazole	96.0		P	80 - 120
Fenamiphos	90.6		P	80 - 120
Fenbuconazole	95.7		P	80 - 120
Fipronil	93.1		P	80 - 120
Fipronil Desulfinyl	93.6		P	80 - 120
Fipronil Sulfide	96.2		P	80 - 120
Fipronil Sulfone	94.2		P	80 - 120
Fluazifop-P-butyl	99.5		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A113993
Included Lab Sample IDs: 2345242, 2345244

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fludioxonil	91.5		P	80 - 120
Flumioxazin	91.3		P	80 - 120
Flutolanil	98.3		P	80 - 120
Fluxapyroxad	92.5		P	80 - 120
Fonofos	98.0		P	80 - 120
Hexazinone	104		P	80 - 120
Imazalil	100		P	80 - 120
Iprodione	90.4		P	80 - 120
Loratadine	107		P	80 - 120
Malathion	95.7		P	80 - 120
Metalaxyl	95.5		P	80 - 120
Metolachlor	100		P	80 - 120
Metribuzin	89.6		P	80 - 120
Mevinphos	90.3		P	80 - 120
Molinate	95.1		P	80 - 120
Myclobutanil	94.7		P	80 - 120
Naled	110		P	80 - 120
Napropamide	96.5		P	80 - 120
Norflurazon	93.7		P	80 - 120
Oxadiazon	100		P	80 - 120
Oxyfluorfen	105		P	80 - 120
Parathion Ethyl	97.0		P	80 - 120
Parathion Methyl	104		P	80 - 120
Pendimethalin	101		P	80 - 120
Phenytoin	98.0		P	80 - 120
Phorate	103		P	80 - 120
Prodiamine	104		P	80 - 120
Prometon	97.2		P	80 - 120
Prometryn	95.4		P	80 - 120
Pronamide	93.6		P	80 - 120
Propanil	92.9		P	80 - 120
Propargite	97.7		P	80 - 120
Propiconazole	94.0		P	80 - 120
Pyraflufen Ethyl	99.1		P	80 - 120
Pyridaben	96.9		P	80 - 120
Pyriproxyfen	97.2		P	80 - 120
Simazine	91.1		P	80 - 120
Stirophos	111		P	80 - 120
Sulfentrazone	92.6		P	80 - 120
Tebuconazole	95.6		P	80 - 120
Terbufos	107		P	80 - 120
Terbuthylazine	98.8		P	80 - 120
Thiobencarb	100		P	80 - 120
Triadimefon	100		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A113996
Included Lab Sample IDs: 2345199, 2345204

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	92.9	94.8	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A113999
Included Lab Sample IDs: 2345242, 2345244

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	99.2		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A114002
Included Lab Sample IDs: 2345198, 2345200, 2345201, 2345202, 2345203

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	102	P/P	90 - 110
Chloride	99.6	101	P/P	90 - 110
Sulfate	100	101	P/P	90 - 110
Sulfate	98.3	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A114046
Included Lab Sample IDs: 2345205

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.6	94.7	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A114048
Included Lab Sample IDs: 2345201

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A114104
Included Lab Sample IDs: 2345206, 2345207

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	91.6	91.9	P/P	90 - 110

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

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision		
						LCS	SMP	MS
DEP SOP: NU-094-1	Color (true)	101					1.42	
EPA 180.1 Rev. 2.0	Turbidity	96.6					9.00	
EPA 200.7 Rev. 4.4	Calcium	105	105	107				5.38
	Iron	104	104	99.5	104			4.23
	Magnesium	103	104	98.2	105			4.35
	Potassium	102	108	99.6	106			6.14
	Sodium	106	111	101	105			4.99
	Strontium	106	107	101	109			5.89
	Tin	104	105	101	106			4.00
	Titanium	104	107	101	108			5.78
	Vanadium	103	105	98.9	108			6.31
	Zinc	104	105	99.7	107			5.32
EPA 200.8 Rev. 5.4	Aluminum	96.4	93.1	97.7	97.1			4.78
	Antimony	101	101	104	101			3.49
	Arsenic	98.5	96.6	101	98.6			4.50
	Barium	103	101	105	102			3.51
	Beryllium	90.0	92.8	93.6	88.7			0.886
	Boron	93.5	93.8	98.8	101			4.34
	Cadmium	96.8	96.5	98.6	98.6			2.11
	Chromium	99.0	98.2	98.5	97.8			0.370
	Cobalt	96.7	91.7	94.2	97.6			3.59
	Copper	98.0	95.2	98.2	98.2			2.80
	Lead	91.8	92.1	95.3	94.2			3.37
	Manganese	98.4	96.4	100	96.7			3.59
	Molybdenum	95.4	94.7	98.0	97.8			3.24
	Nickel	98.6	94.6	98.4	96.5			3.94
	Selenium	100	94.3	98.2	93.0			4.13
	Silver	95.7	94.4	95.6	95.1			1.36
	Thallium	96.2	96.9	100	98.8			3.48
EPA 300.0 Rev. 2.1	Chloride	101	96.5	100			2.44	
	Sulfate	98.7	94.0	94.0			3.34	
	Sulfate	98.2	89.6	92.6			0.108	
EPA 350.1 Rev. 2.0	Ammonia-N	103						0.556
	Ammonia-N	97.4	97.0	100				2.81
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	106						10.8
	Kjeldahl Nitrogen	99.9						7.72
	Kjeldahl Nitrogen	102	94.4	103				5.33
EPA 353.2 Rev. 2.0	NO2NO3-N	100	100	98.9				1.10
EPA 365.1 Rev. 2.0	Total-P	105	103	104				1.44
	Total-P	104	105	104				0.722
EPA 8270E	Acetochlor	107	111	101				9.24
	Alachlor	103	99.2	90.5				9.17
	Aldrin	59.2	50.0	50.8				1.75
	Alpha-BHC	93.9	91.8	80.7				12.9
	Alpha-Chlordane	83.3	70.2	73.6				4.76
	Ametryn	133	115	103				10.5
	Atrazine	110						5.61
	Atrazine Desethyl	87.2	70.2	67.2				3.43
	Azinphos Methyl	103	114	101				12.0
	Azoxystrobin	146	144	129				9.49
	Beta-BHC	114	116	111				3.96
	Beta-Cyfluthrin	132	117	148				23.4
	Bifenthrin	102	84.8	97.5				14.0
	Bromacil	82.1	81.3	72.2				11.9

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Butylate	48.6	50.3	52.5			4.32
	Caffeine	83.7	92.7	87.4			5.87
	Carbophenothion	70.0	72.0	70.1			2.69
	Carfentrazone Ethyl	105	90.8	105			14.2
	Chlorfenapyr	66.8	74.1	60.5			20.2
	Chlorothalonil	134	153	141			8.35
	Chlorpyrifos Ethyl	113	93.6	83.4			11.5
	Chlorpyrifos Methyl	89.9	99.0	94.6			4.49
	Cis-Nonachlor	89.1	80.9	68.0			17.2
	Coumaphos	45.4	68.8	60.6			12.8
	Cyanazine	92.9	116	106			9.05
	Cypermethrin	108	90.7	127			33.4
	Cyprodinil	126	108	94.4			13.5
	Dacthal	92.1	91.2	80.5			12.4
	DDD-p,p'	84.0	79.8	60.2			28.0
	DDE-p,p'	86.8	78.3	66.9			15.7
	DDT-p,p'	87.3	78.1	73.9			5.52
	Delta-BHC	114	115	108			6.52
	Deltamethrin	187	157	190			19.0
	Demeton	115	123	115			6.18
	Diazinon	110	104	102			2.05
	Dichlobenil	89.6	89.5	73.2			20.0
	Dicofol	92.9	85.0	97.3			13.5
	Dieldrin	88.2	83.5	67.8			20.7
	Difenoconazole	118	158	151			4.64
	Dimethenamid	75.9	84.5	77.9			8.08
	Dimethomorph	113	126	113			11.5
	Disulfoton	104	109	96.8			11.5
	Dithiopyr	104	104	94.3			10.1
	Endosulfan I	90.8	78.8	70.3			11.5
	Endosulfan II	93.1	82.6	69.8			16.8
	Endosulfan Sulfate	79.0	126	138			9.34
	Endrin	88.7	82.5	72.4			12.9
	Endrin Aldehyde	83.0	80.6	70.7			13.1
	Endrin Ketone	104	97.1	87.0			11.0
	EPTC	58.0	54.3	55.5			2.15
	Esfenvalerate	148	136	164			18.3
	Ethalfluralin	82.1	75.1	70.3			6.57
	Ethion	19.3	44.9	45.9			2.16
	Ethoprop	112	113	107			6.21
	Etridiazole	69.3	66.0	62.2			5.79
	Fenamiphos	71.8	72.1	81.1			11.7
	Fenbuconazole	78.6	92.2	83.8			9.49
	Fenpropathrin	90.9	107	97.8			8.53
	Fipronil	98.9	100	92.0			8.47
	Fipronil Desulfinyl	102	111	99.1			10.1
	Fipronil Sulfide	93.8	95.1	91.6			3.74
	Fipronil Sulfone	89.7	79.2	69.3			11.7
	Fluazifop-P-butyl	104	104	90.7			13.9
	Fludioxonil	65.1	92.2	77.7			17.0
	Flumioxazin	60.6	114	106			6.72
	Flutolanil	85.4	107	94.6			12.5
	Fluxapyroxad	50.7	80.2	76.4			4.86
	Fonofos	106	102	96.6			5.14

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Gamma-BHC	97.8	94.4	89.2			5.72
	Gamma-Chlordane	80.1	75.8	67.9			11.0
	Heptachlor	75.9	63.0	61.1			3.06
	Heptachlor Epoxide	78.0	76.1	68.0			11.3
	Hexachlorobenzene	83.0	77.5	69.5			10.8
	Hexazinone	87.7	106	96.3			9.39
	Imazalil	70.8	87.5	91.4			4.31
	Iprodione	71.5	85.5	78.9			8.09
	Kepone	33.1	29.6	25.9			13.3
	Lambda-Cyhalothrin	121	105	116			10.4
	Loratadine	218	160	143			11.1
	Malathion	104	119	108			9.73
	Metalaxyl	102	99.6	91.3			8.74
	Methoprene	75.0	66.1	64.0			3.23
	Methoxychlor	107	94.7	95.2			0.492
	Metolachlor	88.0	102	98.4			3.92
	Metribuzin	112	113	104			8.07
	Mevinphos	94.2	95.6	91.1			4.84
	MGK-264	67.2	73.1	64.4			12.7
	Mirex	80.2	70.6	67.5			4.40
	Molinate	67.0	69.1	68.0			1.47
	Myclobutanil	88.1	106	89.6			16.7
	Naled	65.7	74.1	78.8			6.08
	Napropamide	52.4	70.8	68.6			3.12
	Norflurazon	80.7	87.3	85.4			2.17
	Oxadiazon	90.6	85.4	82.4			2.86
	Oxychlordane	75.2	67.5	64.6			4.34
	Oxyfluorfen	96.8	101	99.7			1.44
	Parathion Ethyl	104	101	98.4			2.56
	Parathion Methyl	133	138	127			8.03
	PCB-1016	86.3	81.9	96.3			16.2
	PCB-1260	86.0	82.2	88.7			7.65
	Pendimethalin	103	104	99.4			4.91
	Permethrin	114	92.7	122			27.3
	Phenothrin	82.6	75.4	88.6			16.1
	Phenytoin	15.2	28.9	28.6			0.778
	Phorate	104	83.1	84.5			1.75
	Piperonyl Butoxide	128	129	121			5.77
	Prallethrin	86.5	76.1	60.7			22.6
	Prodiamine	50.3	56.6	47.4			17.7
	Prometon	80.9	90.9	86.0			5.51
	Prometryn	112	108	96.2			11.6
	Pronamide	115	126	116			8.67
	Propanil	93.0	102	92.6			9.92
	Propargite	35.4	57.0	55.9			1.96
	Propiconazole	81.8	92.1	84.4			8.77
	Pyraflufen Ethyl	75.1	88.7	78.0			12.8
	Pyridaben	79.8	75.3	66.8			7.74
	Pyriproxyfen	33.6	66.4	69.4			4.40
	Simazine	95.4	104	95.3			8.71
	Stirophos	29.2	50.9	53.4			4.76
	Sulfentrazone	84.1	89.3	80.4			10.4
	Tau-Fluvalinate	114	119	185			43.5
	Tebuconazole	20.0	46.1	44.5			3.44

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Terbufos	114	130	118			9.41
	Terbuthylazine	107	104	93.8			10.5
	Tetramethrin	101	98.5	88.6			10.6
	Thiobencarb	81.2	93.0	85.8			8.05
	Trans-Nonachlor	68.5	69.4	69.8			0.671
	Triadimefon	82.8	97.5	90.3			7.62
	Triclosan Methyl	87.8	80.7	77.7			3.78
	Trifluralin	85.8	72.4	65.3			10.2
EPA 8276	Chlordane	97.8	96.3	107			10.3
	Toxaphene	99.2	99.1	113			13.0
EPA 8321B	2,4-D	101	86.4	81.9			4.33
	2,4,5-T	100	72.1	70.0			2.92
	3-Hydroxycarbofuran	101	109	118			8.12
	Acesulfame K	99.6	82.1	84.5			2.96
	Acetaminophen	34.6	34.7	40.0			14.3
	Acetamiprid	88.1	75.5	86.4			11.8
	Afidopyropen	76.3	85.9	92.4			7.31
	Aldicarb	56.9	70.4	58.0			19.3
	Aldicarb Sulfone	110	127	134			5.47
	Aldicarb Sulfoxide	88.2	39.7	46.5			15.8
	AMPA	111	45.2	43.7			3.37
	Bentazon	102					8.17
	Benzovindiflupyr	94.5	94.4	96.5			2.26
	Carbamazepine	101					0.0370
	Carbaryl	98.3	75.1	68.6			9.13
	Carbofuran	88.1	80.0	81.1			1.46
	Clothianidin	98.8	105	90.5			10.3
	Dinotefuran	102					2.10
	Diuron	89.5	72.0	80.8			7.73
	Endothall	90.8	94.2	97.1			3.04
	Fenuron	96.6	88.1	86.2			2.16
	Fluridone	100	101	94.4			5.98
	Glufosinate	111	50.5	48.2			4.69
	Glyphosate	110	64.2	68.3			6.08
	Hydrocodone	96.5	104	99.8			4.05
	Ibuprofen	87.3	89.7	96.0			6.79
	Imazapyr	114	64.5	59.9			4.66
	Imidacloprid	106					3.20
	Linuron	88.6	121	124			2.34
	Mandestrobin	97.8	94.8	92.2			2.84
	MCPP	106	88.0	81.3			7.82
	Methiocarb	93.4	87.0	78.0			10.9
	Methomyl	89.3	80.7	80.4			0.384
	Naproxen	73.4	53.4	65.6			20.5
	Oxamyl	98.7	97.4	97.1			0.215
	Primidone	98.5					3.82
	Propoxur	92.0	72.9	72.0			1.33
	Pyraclostrobin	90.1	94.0	92.0			2.08
	Silvex	97.5	98.1	90.4			8.17
	Sucralose	113					3.64
	Thiamethoxam	104	134	141			5.22
	Tolfenpyrad	54.1	59.7	56.4			5.75
	Triclopyr	85.0	75.0	69.9			7.03
SM 2320 B-2011	Total Alkalinity	100				1.40	

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
SM 2540 C-2011	TDS					3.06	
SM 4500-F- C-2011	Fluoride	102	99.8	100			0.516
SM 5310 B-2011	Organic Carbon	96.5	94.7	96.7			1.17

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2345198, 2345200, 2345201, 2345202, 2345203
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2345198, 2345200, 2345201, 2345202, 2345203
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2345245, 2345246, 2345247, 2345248, 2345249, 2345250, 2345251, 2345252, 2345253
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2345245, 2345246, 2345247, 2345248, 2345249, 2345250, 2345251, 2345252, 2345253
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2345198, 2345200, 2345201, 2345202, 2345203
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2345198, 2345200, 2345201, 2345202, 2345203
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2345199, 2345204, 2345205, 2345206, 2345207
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2345199, 2345204, 2345205, 2345206, 2345207
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2345199, 2345204, 2345205, 2345206, 2345207
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2345199, 2345204, 2345205, 2345206, 2345207
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2345241, 2345243
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2345242, 2345244
EPA 8270E	PCBs in water matrices by GC/MS/MS	2345241
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2345241, 2345243
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2345237, 2345239
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2345231, 2345232, 2345233, 2345234, 2345235, 2345236, 2345238
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2345198, 2345200, 2345201, 2345202, 2345203
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2345245, 2345246, 2345247, 2345248, 2345249, 2345250, 2345251, 2345252, 2345253
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2345198, 2345200, 2345201, 2345202, 2345203
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2345198, 2345200, 2345201, 2345202, 2345203
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2345198, 2345200, 2345201, 2345202, 2345203
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2345199, 2345204, 2345205, 2345206, 2345207

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	08/02/2022			08/03/2022 10:44	Anna M. Plaviak	2345198, 2345200
	08/02/2022			08/03/2022 10:45	Anna M. Plaviak	2345201
	08/02/2022			08/03/2022 10:46	Anna M. Plaviak	2345202
	08/02/2022			08/03/2022 10:47	Anna M. Plaviak	2345203
EPA 180.1 Rev. 2.0	08/02/2022			08/03/2022 10:37	Khloe J Berg	2345198
	08/02/2022			08/03/2022 10:39	Khloe J Berg	2345200, 2345201
	08/02/2022			08/03/2022 10:40	Khloe J Berg	2345202
	08/02/2022			08/03/2022 10:41	Khloe J Berg	2345203
EPA 200.7 Rev. 4.4	08/02/2022	08/03/2022 09:28	Mackenzie Hunt	08/04/2022 00:42	McKinley C Carter	2345245
	08/02/2022	08/03/2022 09:28	Mackenzie Hunt	08/04/2022 00:50	McKinley C Carter	2345246
	08/02/2022	08/03/2022 09:28	Mackenzie Hunt	08/04/2022 00:58	McKinley C Carter	2345247
	08/02/2022	08/03/2022 09:28	Mackenzie Hunt	08/04/2022 01:33	McKinley C Carter	2345248
	08/02/2022	08/03/2022 09:28	Mackenzie Hunt	08/04/2022 01:55	McKinley C Carter	2345249
	08/02/2022	08/03/2022 09:28	Mackenzie Hunt	08/04/2022 02:03	McKinley C Carter	2345250
	08/02/2022	08/03/2022 09:28	Mackenzie Hunt	08/04/2022 02:11	McKinley C Carter	2345251
	08/02/2022	08/03/2022 09:28	Mackenzie Hunt	08/04/2022 02:19	McKinley C Carter	2345252
	08/02/2022	08/03/2022 09:28	Mackenzie Hunt	08/04/2022 02:26	McKinley C Carter	2345253
	08/02/2022	08/03/2022 09:28	Mackenzie Hunt	08/05/2022 17:16	McKinley C Carter	2345249
	08/02/2022	08/03/2022 09:28	Mackenzie Hunt	08/05/2022 17:22	McKinley C Carter	2345253
EPA 200.8 Rev. 5.4	08/02/2022	08/03/2022 09:28	Mackenzie Hunt	08/04/2022 00:08	Alexander Thompson	2345245
	08/02/2022	08/03/2022 09:28	Mackenzie Hunt	08/04/2022 00:17	Alexander Thompson	2345246
	08/02/2022	08/03/2022 09:28	Mackenzie Hunt	08/04/2022 00:26	Alexander Thompson	2345247
	08/02/2022	08/03/2022 09:28	Mackenzie Hunt	08/04/2022 00:35	Alexander Thompson	2345249
	08/02/2022	08/03/2022 09:28	Mackenzie Hunt	08/04/2022 00:44	Alexander Thompson	2345250
	08/02/2022	08/03/2022 09:28	Mackenzie Hunt	08/04/2022 00:53	Alexander Thompson	2345248
	08/02/2022	08/03/2022 09:28	Mackenzie Hunt	08/04/2022 01:38	Alexander Thompson	2345251
	08/02/2022	08/03/2022 09:28	Mackenzie Hunt	08/04/2022 01:47	Alexander Thompson	2345252
	08/02/2022	08/03/2022 09:28	Mackenzie Hunt	08/04/2022 01:56	Alexander Thompson	2345253
	08/02/2022	08/03/2022 09:28	Mackenzie Hunt	08/04/2022 14:52	Emily M Philpot	2345245
	08/02/2022	08/03/2022 09:28	Mackenzie Hunt	08/04/2022 14:59	Emily M Philpot	2345246
	08/02/2022	08/03/2022 09:28	Mackenzie Hunt	08/04/2022 15:06	Emily M Philpot	2345247
	08/02/2022	08/03/2022 09:28	Mackenzie Hunt	08/04/2022 15:13	Emily M Philpot	2345249
	08/02/2022	08/03/2022 09:28	Mackenzie Hunt	08/04/2022 15:20	Emily M Philpot	2345250
	08/02/2022	08/03/2022 09:28	Mackenzie Hunt	08/04/2022 15:27	Emily M Philpot	2345248
	08/02/2022	08/03/2022 09:28	Mackenzie Hunt	08/04/2022 16:03	Emily M Philpot	2345251
	08/02/2022	08/03/2022 09:28	Mackenzie Hunt	08/04/2022 16:10	Emily M Philpot	2345252
	08/02/2022	08/03/2022 09:28	Mackenzie Hunt	08/04/2022 16:17	Emily M Philpot	2345253
EPA 300.0 Rev. 2.1	08/02/2022			08/09/2022 00:32	Anna M. Plaviak	2345203
	08/02/2022			08/09/2022 02:56	Anna M. Plaviak	2345198
	08/02/2022			08/09/2022 03:08	Anna M. Plaviak	2345200

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EPA 300.0 Rev. 2.1	08/02/2022			08/09/2022 03:20	Anna M. Plaviak	2345201
	08/02/2022			08/09/2022 03:32	Anna M. Plaviak	2345202
	08/02/2022			08/11/2022 14:53	Anna M. Plaviak	2345201
EPA 350.1 Rev. 2.0	08/02/2022			08/04/2022 14:48	Judith K. Clark	2345204
	08/02/2022			08/04/2022 14:50	Judith K. Clark	2345205
	08/02/2022			08/04/2022 14:51	Judith K. Clark	2345206
	08/02/2022			08/04/2022 14:52	Judith K. Clark	2345207
	08/02/2022			08/08/2022 14:49	Ping Hua	2345199
EPA 351.2 Rev. 2.0	08/02/2022	08/05/2022 10:08	Samantha L Bates	08/09/2022 15:45	Samantha L Bates	2345199
	08/02/2022	08/05/2022 10:08	Samantha L Bates	08/09/2022 15:47	Samantha L Bates	2345204
	08/02/2022	08/08/2022 14:48	Samantha L Bates	08/11/2022 14:12	Alexandra J Mattheus	2345205
	08/02/2022	08/09/2022 15:01	Alexandra J Mattheus	08/15/2022 10:38	Samantha L Bates	2345206
	08/02/2022	08/09/2022 15:01	Alexandra J Mattheus	08/15/2022 10:40	Samantha L Bates	2345207
EPA 353.2 Rev. 2.0	08/02/2022			08/04/2022 12:31	Beverly Y. Sanders	2345199
	08/02/2022			08/04/2022 12:42	Beverly Y. Sanders	2345204
	08/02/2022			08/04/2022 12:45	Beverly Y. Sanders	2345207
	08/02/2022			08/04/2022 13:05	Beverly Y. Sanders	2345205
	08/02/2022			08/04/2022 13:07	Beverly Y. Sanders	2345206
EPA 365.1 Rev. 2.0	08/02/2022	08/05/2022 18:15	Adam P Silver	08/08/2022 09:54	James L Waggerby	2345199
	08/02/2022	08/05/2022 18:15	Adam P Silver	08/08/2022 09:55	James L Waggerby	2345204
	08/02/2022	08/05/2022 18:15	Adam P Silver	08/08/2022 09:59	James L Waggerby	2345207
	08/02/2022	08/05/2022 18:15	Adam P Silver	08/08/2022 10:04	James L Waggerby	2345206
	08/02/2022	08/05/2022 18:15	Adam P Silver	08/08/2022 11:11	James L Waggerby	2345205
EPA 8270E	08/02/2022	08/03/2022 08:00	Fe-Val Siddell	08/04/2022 21:04	Vandana T. Nagar	2345241
	08/02/2022	08/03/2022 08:00	Fe-Val Siddell	08/04/2022 21:34	Vandana T. Nagar	2345243
	08/02/2022	08/03/2022 08:00	Fe-Val Siddell	08/05/2022 01:22	Julie Wi	2345241
	08/02/2022	08/05/2022 08:00	Fe-Val Siddell	08/09/2022 01:23	Michael Poppell	2345242
	08/02/2022	08/05/2022 08:00	Fe-Val Siddell	08/09/2022 01:50	Michael Poppell	2345244
	08/02/2022	08/05/2022 08:00	Fe-Val Siddell	08/09/2022 19:36	Michael Poppell	2345242
	08/02/2022	08/05/2022 08:00	Fe-Val Siddell	08/09/2022 20:02	Michael Poppell	2345244
EPA 8276	08/02/2022	08/03/2022 08:00	Fe-Val Siddell	08/09/2022 02:21	Arthur Maknenko	2345243
	08/02/2022	08/03/2022 08:00	Fe-Val Siddell	08/09/2022 08:05	Arthur Maknenko	2345241
EPA 8321B	08/02/2022	08/04/2022 13:00	Hoor Shaik	08/05/2022 08:57	Juyoung Kim	2345231
	08/02/2022	08/04/2022 13:00	Hoor Shaik	08/05/2022 09:17	Juyoung Kim	2345232
	08/02/2022	08/04/2022 13:00	Hoor Shaik	08/05/2022 09:59	Juyoung Kim	2345233
	08/02/2022	08/04/2022 13:00	Hoor Shaik	08/05/2022 11:22	Juyoung Kim	2345234
	08/02/2022	08/04/2022 13:00	Hoor Shaik	08/05/2022 11:43	Juyoung Kim	2345235
	08/02/2022	08/04/2022 13:00	Hoor Shaik	08/05/2022 12:04	Juyoung Kim	2345236
	08/02/2022	08/04/2022 13:00	Hoor Shaik	08/05/2022 12:24	Juyoung Kim	2345238
	08/02/2022	08/04/2022 13:00	Hoor Shaik	08/05/2022 17:16	Juyoung Kim	2345234

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	08/02/2022	08/04/2022 13:00	Hoor Shaik	08/05/2022 17:36	Juyoung Kim	2345235
	08/02/2022	08/05/2022 09:10	Umesh Chiluwal	08/05/2022 11:38	Umesh Chiluwal	2345231
	08/02/2022	08/05/2022 09:10	Umesh Chiluwal	08/05/2022 11:51	Umesh Chiluwal	2345232
	08/02/2022	08/05/2022 09:10	Umesh Chiluwal	08/05/2022 12:04	Umesh Chiluwal	2345233
	08/02/2022	08/05/2022 09:10	Umesh Chiluwal	08/05/2022 12:17	Umesh Chiluwal	2345234
	08/02/2022	08/05/2022 09:10	Umesh Chiluwal	08/05/2022 12:43	Umesh Chiluwal	2345235
	08/02/2022	08/05/2022 09:10	Umesh Chiluwal	08/05/2022 12:56	Umesh Chiluwal	2345236
	08/02/2022	08/05/2022 09:10	Umesh Chiluwal	08/05/2022 13:09	Umesh Chiluwal	2345238
	08/02/2022	08/05/2022 09:10	Umesh Chiluwal	08/05/2022 21:36	Umesh Chiluwal	2345234
	08/02/2022	08/05/2022 09:10	Umesh Chiluwal	08/06/2022 03:02	Umesh Chiluwal	2345231
	08/02/2022	08/05/2022 09:10	Umesh Chiluwal	08/06/2022 03:17	Umesh Chiluwal	2345232
	08/02/2022	08/05/2022 09:10	Umesh Chiluwal	08/06/2022 03:32	Umesh Chiluwal	2345233
	08/02/2022	08/05/2022 09:10	Umesh Chiluwal	08/06/2022 03:47	Umesh Chiluwal	2345234
	08/02/2022	08/05/2022 09:10	Umesh Chiluwal	08/06/2022 04:17	Umesh Chiluwal	2345235
	08/02/2022	08/05/2022 09:10	Umesh Chiluwal	08/06/2022 04:32	Umesh Chiluwal	2345236
	08/02/2022	08/05/2022 09:10	Umesh Chiluwal	08/06/2022 04:47	Umesh Chiluwal	2345238
	08/02/2022	08/08/2022 09:00	Hoor Shaik	08/08/2022 19:46	Juyoung Kim	2345237
	08/02/2022	08/08/2022 09:00	Hoor Shaik	08/08/2022 20:07	Juyoung Kim	2345239
SM 2320 B-2011	08/02/2022			08/05/2022 11:55	Adam P Silver	2345203
	08/02/2022			08/05/2022 14:27	Adam P Silver	2345198
	08/02/2022			08/05/2022 14:40	Adam P Silver	2345200
	08/02/2022			08/05/2022 14:54	Adam P Silver	2345201
	08/02/2022			08/05/2022 15:07	Adam P Silver	2345202
SM 2340 B-2011	08/02/2022			08/04/2022 00:42	McKinley C Carter	2345245
	08/02/2022			08/04/2022 00:50	McKinley C Carter	2345246
	08/02/2022			08/04/2022 00:58	McKinley C Carter	2345247
	08/02/2022			08/04/2022 01:33	McKinley C Carter	2345248
	08/02/2022			08/04/2022 01:55	McKinley C Carter	2345249
	08/02/2022			08/04/2022 02:03	McKinley C Carter	2345250
	08/02/2022			08/04/2022 02:11	McKinley C Carter	2345251
	08/02/2022			08/04/2022 02:19	McKinley C Carter	2345252
	08/02/2022			08/04/2022 02:26	McKinley C Carter	2345253
SM 2540 C-2011	08/02/2022			08/05/2022 16:02	Yijie Li	2345198, 2345200, 2345201, 2345202, 2345203
SM 2540 D-2011	08/02/2022			08/05/2022 16:02	Yijie Li	2345198, 2345200, 2345201, 2345202, 2345203
SM 4500-F- C-2011	08/02/2022			08/05/2022 11:45	Adam P Silver	2345203
	08/02/2022			08/05/2022 14:27	Adam P Silver	2345198
	08/02/2022			08/05/2022 14:40	Adam P Silver	2345200
	08/02/2022			08/05/2022 14:54	Adam P Silver	2345201

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	08/02/2022			08/05/2022 15:07	Adam P Silver	2345202
SM 5310 B-2011	08/02/2022			08/05/2022 18:20	Khloe J Berg	2345199
	08/02/2022			08/05/2022 18:34	Khloe J Berg	2345204
	08/02/2022			08/05/2022 18:49	Khloe J Berg	2345205
	08/02/2022			08/05/2022 19:04	Khloe J Berg	2345206
	08/02/2022			08/05/2022 19:25	Khloe J Berg	2345207