Chemical Analysis Report

TLH-ROC-2022-05-31-01

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-2022-04-25-45**
Customer: **TLH-ROC**
Project ID: **SMP**

Send Reports to:
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Tallahassee, FL 32399
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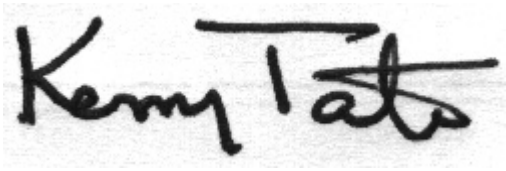
Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 21-JUN-2022 08:42



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: Hurricane Creek upstream Lake Tallavana **Collection Date/Time: 05/31/2022 10:05**

Field ID: G1TLHR0160 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2330698	DEP SOP: NU-094-1	Color (true)**	35	A	PCU	P414599	
	EPA 180.1 Rev. 2.0	Turbidity	4.5		NTU	P414605	
	EPA 300.0 Rev. 2.1	Chloride	15		mg Cl/L	P414982	
		Sulfate	43		mg SO4/L	P414986	
	SM 2320 B-2011	Total Alkalinity	69		mg CaCO3/L	P414793	
	SM 2540 C-2011	TDS	187	A	mg/L	P414802	
	SM 2540 D-2011	TSS	2	I A	mg/L	P414768	
	SM 4500-F- C-2011	Fluoride	0.24		mg F/L	P414800	
2330700	EPA 350.1 Rev. 2.0	Ammonia-N	0.12		mg N/L	P415079	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.87		mg N/L	P414691	
	EPA 353.2 Rev. 2.0	NO2NO3-N	1.2		mg N/L	P415070	
	EPA 365.1 Rev. 2.0	Total-P	0.54		mg P/L	P414629	
	SM 5310 B-2011	Organic Carbon	6.9		mg C/L	P414683	
2330702	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.48		mg P/L	P414593	
2330715	EPA 8321B	2,4-D	0.0022	I	ug/L	P414579	
		Acesulfame K	0.10	U	ug/L	P414602	MS
		2,4,5-T	0.0040	U	ug/L	P414579	
		AMPA	5.4		ug/L	P414602	
		Acetaminophen	0.0080	U	ug/L	P414579	
		Acetamiprid	0.021		ug/L	P414579	
		Endothall	0.25	U	ug/L	P414602	
		Glufosinate	0.10	U	ug/L	P414602	
		Glyphosate	2.8		ug/L	P414602	
		Afidopyropen	0.0020	U	ug/L	P414579	
		Bentazon	0.73		ug/L	P414579	
		Sucralose	0.045		ug/L	P414602	
		Benzovindiflupyr	0.14		ug/L	P414579	
		Carbamazepine	8.0E-04	U	ug/L	P414579	
		Clothianidin	0.013		ug/L	P414579	
		Dinotefuran	0.25		ug/L	P414579	
		Diuron	0.0021	I	ug/L	P414579	
		Fenuron	0.032	U	ug/L	P414579	
		Fluridone	8.0E-04	U	ug/L	P414579	
		Imazapyr	0.0040	U	ug/L	P414579	
		Hydrocodone	0.0020	U	ug/L	P414579	
		Ibuprofen	0.020	U	ug/L	P414579	
		Imidacloprid	0.063	J	ug/L	P414579	MS
		Linuron	0.0040	U	ug/L	P414579	
		Mandestrobin	0.0020	U	ug/L	P414579	
		MCPP	0.0040	U	ug/L	P414579	
		Naproxen	0.0080	U	ug/L	P414579	
		Primidone	0.0040	U	ug/L	P414579	
		Pyraclostrobin	0.015		ug/L	P414579	

Field ID: G1TLHR0160 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2330715	EPA 8321B	Silvex	0.0040	U	ug/L	P414579	
		Thiamethoxam	0.080		ug/L	P414579	
		Tolfenpyrad	0.0020	U	ug/L	P414579	
		Triclopyr	0.0040	U	ug/L	P414579	
2330722	EPA 200.7 Rev. 4.4	Calcium	29.0		mg/L	P414566	
		Iron	260		ug/L	P414566	
		Magnesium	12.3		mg/L	P414566	
		Potassium	5.9		mg/L	P414566	
		Sodium	10.3		mg/L	P414566	
		Strontium	239		ug/L	P414566	
		Tin	3.0	U	ug/L	P414566	
		Titanium	5.5		ug/L	P414566	
		Vanadium	2.5	I	ug/L	P414566	
		Zinc	5.0	U	ug/L	P414566	
	EPA 200.8 Rev. 5.4	Aluminum	95		ug/L	P414566	
		Antimony	0.059	I	ug/L	P414566	
		Arsenic	1.80		ug/L	P414566	
		Barium	14.4		ug/L	P414566	
		Beryllium	0.010	U	ug/L	P414566	
		Boron**	21.2		ug/L	P414566	
		Cadmium	0.020	U	ug/L	P414566	
		Chromium	0.48	I	ug/L	P414566	
		Cobalt	0.083		ug/L	P414566	
		Copper	0.88		ug/L	P414566	
		Lead	0.20	U	ug/L	P414566	
		Manganese	24.8		ug/L	P414566	
		Molybdenum	1.24		ug/L	P414566	
		Nickel	0.50	U	ug/L	P414566	
		Selenium	0.20	U	ug/L	P414566	
		Silver	0.010	U	ug/L	P414566	
		Thallium	0.10	U	ug/L	P414566	
	SM 2340 B-2011	Hardness	123		mg/L	P414566	

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.
EPA 8321B: MS accuracy and precision for bentazon could not be assessed due to high concentration of parameter in the spiked sample. MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Lake Tallavana Outlet **Collection Date/Time: 05/31/2022 10:45**

Field ID: G1TLHR0164 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2330717	EPA 8321B	Aldicarb	0.020	U	ug/L	P414473	
		Aldicarb Sulfone	0.0020	U	ug/L	P414473	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P414473	
		Carbaryl	0.0020	U	ug/L	P414473	
		Carbofuran	0.0020	U	ug/L	P414473	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P414473	
		Methiocarb	0.0020	U	ug/L	P414473	
		Methomyl	0.0020	U	ug/L	P414473	
		Oxamyl	0.0020	U	ug/L	P414473	
		Propoxur	0.0020	U	ug/L	P414473	
2330718		2,4-D	0.0020	U	ug/L	P414579	
		Acesulfame K	0.10	U	ug/L	P414602	MS
		2,4,5-T	0.0040	U	ug/L	P414579	
		AMPA	0.10	U	ug/L	P414602	
		Acetaminophen	0.0080	U	ug/L	P414579	
		Acetamiprid	0.0020	U	ug/L	P414579	
		Endothall	0.25	U	ug/L	P414602	
		Glufosinate	0.10	U	ug/L	P414602	
		Glyphosate	0.10	U	ug/L	P414602	
		Afidopyropen	0.0020	U	ug/L	P414579	
		Bentazon	8.0E-04	U	ug/L	P414579	
		Sucralose	0.094		ug/L	P414602	
		Benzovindiflupyr	0.0020	U	ug/L	P414579	
		Carbamazepine	8.0E-04	U	ug/L	P414579	
		Clothianidin	0.0020	U	ug/L	P414579	
		Dinotefuran	0.0020	U	ug/L	P414579	
		Diuron	0.0020	U	ug/L	P414579	
		Fenuron	0.032	U	ug/L	P414579	
		Fluridone	8.0E-04	U	ug/L	P414579	
		Imazapyr	0.0040	U	ug/L	P414579	
		Hydrocodone	0.0020	U	ug/L	P414579	
		Ibuprofen	0.020	U	ug/L	P414579	
		Imidacloprid	0.0020	U	ug/L	P414579	MS
		Linuron	0.0040	U	ug/L	P414579	
		Mandestrobin	0.0020	U	ug/L	P414579	
		MCPP	0.0040	U	ug/L	P414579	
		Naproxen	0.0080	U	ug/L	P414579	
		Primidone	0.0040	U	ug/L	P414579	
		Pyraclostrobin	0.0020	U	ug/L	P414579	
		Silvex	0.0040	U	ug/L	P414579	
		Thiamethoxam	0.0020	U	ug/L	P414579	
		Tolfenpyrad	0.0020	U	ug/L	P414579	
		Triclopyr	0.0040	U	ug/L	P414579	
2330719	EPA 8270E	Aldrin	0.70	U	ng/L	P414640	

Field ID: G1TLHR0164 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2330719	EPA 8270E	Alpha-BHC	0.11	U	ng/L	P414640	
		Alpha-Chlordane	0.22	U	ng/L	P414640	
		Beta-BHC	0.11	U	ng/L	P414640	
		Beta-Cyfluthrin**	1.3	U	ng/L	P414640	
		Bifenthrin**	0.54	U	ng/L	P414640	
		Chlorothalonil	1.3	U	ng/L	P414640	
		Cis-Nonachlor**	0.22	U	ng/L	P414640	
		Cypermethrin	1.6	U	ng/L	P414640	
		Dacthal**	0.16	U	ng/L	P414640	
		DDD-p,p'	0.27	U	ng/L	P414640	
		DDE-p,p'	0.22	U	ng/L	P414640	
		DDT-p,p'	0.27	U	ng/L	P414640	
		Delta-BHC	0.43	U	ng/L	P414640	
		Deltamethrin**	1.3	U	ng/L	P414640	
		Dichlobenil**	0.27	U	ng/L	P414640	
		Dicofol	1.3	UJ	ng/L	P414640	LCS, MS
		Dieldrin	0.43	U	ng/L	P414640	
		Endosulfan I	0.43	U	ng/L	P414640	
		Endosulfan II	0.43	U	ng/L	P414640	
		Endosulfan Sulfate	0.32	U	ng/L	P414640	
		Endrin	0.43	U	ng/L	P414640	
		Endrin Aldehyde	0.81	U	ng/L	P414640	
		Endrin Ketone	0.43	U	ng/L	P414640	
		Esfenvalerate**	0.81	U	ng/L	P414640	
		Ethalfluralin**	0.16	U	ng/L	P414640	
		Fenpropathrin**	0.27	U	ng/L	P414640	
		Gamma-BHC	0.13	U	ng/L	P414640	
		Gamma-Chlordane	0.22	U	ng/L	P414640	
		Heptachlor	0.22	U	ng/L	P414640	
		Heptachlor Epoxide	0.27	U	ng/L	P414640	
		Hexachlorobenzene**	1.1	U	ng/L	P414640	
		Kepone**	5.4	U	ng/L	P414640	
		Lambda-Cyhalothrin**	0.81	U	ng/L	P414640	
		Methoprene**	0.81	U	ng/L	P414640	
		Methoxychlor	0.32	U	ng/L	P414640	
		MGK-264**	0.22	U	ng/L	P414640	
		Mirex	0.76	U	ng/L	P414640	
		Oxychlordane**	0.32	U	ng/L	P414640	
		Permethrin	1.7	U	ng/L	P414640	
		Phenothrin**	0.97	U	ng/L	P414640	
		Piperonyl Butoxide**	0.16	U	ng/L	P414640	
		Prallethrin**	2.2	U	ng/L	P414640	
		Tau-Fluvalinate**	0.27	U	ng/L	P414640	
		Tetramethrin**	0.81	U	ng/L	P414640	
		Trans-Nonachlor**	0.22	U	ng/L	P414640	

Field ID: G1TLHR0164 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2330719	EPA 8270E	Triclosan Methyl**	0.16	U	ng/L	P414640	
		Trifluralin	0.22	U	ng/L	P414640	
	EPA 8276	Chlordane	2.7	U	ng/L	P414640	
		Toxaphene	16	U	ng/L	P414640	
2330720	EPA 8270E	Acetochlor	0.26	U	ng/L	P414502	
		Alachlor	0.26	U	ng/L	P414502	
		Ametryn	0.64	U	ng/L	P414502	
		Atrazine	0.58	I	ng/L	P414502	
		Atrazine Desethyl	1.6	U	ng/L	P414502	
		Azinphos Methyl	2.1	U	ng/L	P414502	
		Azoxystrobin**	0.53	U	ng/L	P414502	
		Bromacil	0.53	U	ng/L	P414502	
		Butylate	0.42	U	ng/L	P414502	
		Caffeine**	7.9	U	ng/L	P414502	
		Carbophenothion	2.6	U	ng/L	P414502	
		Carfentrazone Ethyl**	0.11	U	ng/L	P414502	
		Chlorfenapyr**	0.19	U	ng/L	P414502	
		Chlorpyrifos Ethyl	0.26	U	ng/L	P414502	
		Chlorpyrifos Methyl	0.053	U	ng/L	P414502	
		Coumaphos**	0.53	U	ng/L	P414502	
		Cyanazine	3.4	U	ng/L	P414502	
		Cyprodinil**	0.11	U	ng/L	P414502	
		Demeton	1.6	U	ng/L	P414502	
		Diazinon	0.13	U	ng/L	P414502	
		Difenoconazole**	0.64	U	ng/L	P414502	
		Dimethenamid**	0.11	U	ng/L	P414502	
		Dimethomorph**	0.19	U	ng/L	P414502	MS, RPD
		Disulfoton	0.53	U	ng/L	P414502	
		Dithiopyr**	0.19	U	ng/L	P414502	
		EPTC	1.3	U	ng/L	P414502	
		Ethion	0.16	U	ng/L	P414502	
		Ethoprop	0.11	U	ng/L	P414502	
		Etridiazole**	0.16	U	ng/L	P414502	MS
		Fenamiphos	0.53	U	ng/L	P414502	
		Fenbuconazole**	0.13	U	ng/L	P414502	
		Fipronil	0.26	U	ng/L	P414502	
		Fipronil Desulfinyl**	0.13	U	ng/L	P414502	
		Fipronil Sulfide	0.16	U	ng/L	P414502	
		Fipronil Sulfone	0.16	U	ng/L	P414502	
		Fluazifop-P-butyl**	0.11	U	ng/L	P414502	
		Fludioxonil**	0.13	U	ng/L	P414502	
		Flumioxazin**	1.9	U	ng/L	P414502	
		Flutolanil**	0.11	U	ng/L	P414502	
		Fluxapyroxad**	0.11	U	ng/L	P414502	
		Fonofos	0.21	U	ng/L	P414502	

Field ID: G1TLHR0164 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2330720	EPA 8270E	Hexazinone	0.53	U	ng/L	P414502	
		Imazalil**	0.79	U	ng/L	P414502	
		Iprodione**	0.64	U	ng/L	P414502	
		Loratadine**	0.11	U	ng/L	P414502	MS, RPD
		Malathion	0.37	U	ng/L	P414502	
		Metalaxyl	0.79	U	ng/L	P414502	
		Metolachlor	0.37	U	ng/L	P414502	
		Metribuzin	2.6	U	ng/L	P414502	
		Mevinphos	1.1	U	ng/L	P414502	
		Molinate	0.32	U	ng/L	P414502	
		Myclobutanil**	0.26	U	ng/L	P414502	
		Naled**	1.6	U	ng/L	P414502	
		Napropamide**	0.42	U	ng/L	P414502	
		Norflurazon	0.53	U	ng/L	P414502	
		Oxadiazon	0.32	U	ng/L	P414502	
		Oxyfluorfen**	0.16	U	ng/L	P414502	
		Parathion Ethyl	0.26	U	ng/L	P414502	
		Parathion Methyl	0.58	U	ng/L	P414502	
		Pendimethalin	1.1	U	ng/L	P414502	
		Phenytoin**	3.7	U	ng/L	P414502	MS
		Phorate	0.56	U	ng/L	P414502	
		Prodiamine**	0.32	U	ng/L	P414502	
		Prometon	0.95	U	ng/L	P414502	
		Prometryn	0.21	U	ng/L	P414502	
		Pronamide**	0.16	U	ng/L	P414502	
		Propanil**	0.13	U	ng/L	P414502	
		Propargite**	1.6	U	ng/L	P414502	MS
		Propiconazole**	0.53	U	ng/L	P414502	
		Pyraflufen Ethyl**	0.26	U	ng/L	P414502	
		Pyridaben**	0.48	U	ng/L	P414502	
		Pyriproxyfen**	0.13	U	ng/L	P414502	
		Simazine	0.53	U	ng/L	P414502	
		Stirophos**	0.13	U	ng/L	P414502	MS
		Sulfentrazone**	0.53	U	ng/L	P414502	
		Tebuconazole**	0.53	U	ng/L	P414502	
		Terbufos	0.11	U	ng/L	P414502	
		Terbuthylazine	0.45	U	ng/L	P414502	
		Thiobencarb**	0.64	U	ng/L	P414502	
		Triadimefon**	0.26	U	ng/L	P414502	

Ref. Method and Comment:
EPA 8321B: MS accuracy and precision for bentazon could not be assessed due to high concentration of parameter in the spiked sample. MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8276: Matrix spikes could not be assessed due to spiking error.
EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked.

Sample Location: Hurricane Creek upstream US90 **Collection Date/Time: 05/31/2022 11:30**

Field ID: G1TLHR0161 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2330699	DEP SOP: NU-094-1	Color (true)**	40		PCU	P414599	
	EPA 180.1 Rev. 2.0	Turbidity	7.3	A	NTU	P414605	
	EPA 300.0 Rev. 2.1	Chloride	8.6		mg Cl/L	P414982	
		Sulfate	10		mg SO4/L	P414986	
	SM 2320 B-2011	Total Alkalinity	33		mg CaCO3/L	P414793	
	SM 2540 C-2011	TDS	81		mg/L	P414802	
	SM 2540 D-2011	TSS	8	I	mg/L	P414768	
	SM 4500-F- C-2011	Fluoride	0.12		mg F/L	P414800	
2330701	EPA 350.1 Rev. 2.0	Ammonia-N	0.043		mg N/L	P415171	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.62		mg N/L	P414857	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.39		mg N/L	P415070	
	EPA 365.1 Rev. 2.0	Total-P	0.24		mg P/L	P414629	
	SM 5310 B-2011	Organic Carbon	6.5		mg C/L	P414683	
2330703	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.17		mg P/L	P414593	
2330716	EPA 8321B	2,4-D	0.0042	I	ug/L	P414579	
		Acesulfame K	0.10	U	ug/L	P414602	MS
		2,4,5-T	0.0040	U	ug/L	P414579	
		AMPA	1.4		ug/L	P414602	
		Acetaminophen	0.0080	U	ug/L	P414579	
		Acetamiprid	0.012		ug/L	P414579	
		Endothall	0.25	U	ug/L	P414602	
		Glufosinate	0.10	U	ug/L	P414602	
		Glyphosate	0.53		ug/L	P414602	
		Afidopyropen	0.0020	U	ug/L	P414579	
		Bentazon	0.20		ug/L	P414579	
		Sucralose	0.15		ug/L	P414602	
		Benzovindiflupyr	0.0086		ug/L	P414579	
		Carbamazepine	8.0E-04	U	ug/L	P414579	
		Clothianidin	0.0020	U	ug/L	P414579	
		Dinotefuran	0.060		ug/L	P414579	
		Diuron	0.0021	I	ug/L	P414579	
		Fenuron	0.032	U	ug/L	P414579	
		Fluridone	8.0E-04	U	ug/L	P414579	
		Imazapyr	0.0040	U	ug/L	P414579	
		Hydrocodone	0.0020	U	ug/L	P414579	
		Ibuprofen	0.020	U	ug/L	P414579	
		Imidacloprid	0.019		ug/L	P414579	MS
		Linuron	0.0040	U	ug/L	P414579	
		Mandestrobin	0.0020	U	ug/L	P414579	
		MCPP	0.0040	U	ug/L	P414579	
		Naproxen	0.0080	U	ug/L	P414579	
		Primidone	0.0040	U	ug/L	P414579	
		Pyraclostrobin	0.0020	U	ug/L	P414579	

Field ID: G1TLHR0161 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2330716	EPA 8321B	Silvex	0.0040	U	ug/L	P414579	
		Thiamethoxam	0.0022	I	ug/L	P414579	
		Tolfenpyrad	0.0020	U	ug/L	P414579	
		Triclopyr	0.0040	U	ug/L	P414579	
2330723	EPA 200.7 Rev. 4.4	Calcium	11.9		mg/L	P414566	
		Iron	510		ug/L	P414566	
		Magnesium	4.60		mg/L	P414566	
		Potassium	2.3		mg/L	P414566	
		Sodium	5.5		mg/L	P414566	
		Strontium	66.3		ug/L	P414566	
		Tin	3.0	U	ug/L	P414566	
		Titanium	6.9		ug/L	P414566	
		Vanadium	2.1	I	ug/L	P414566	
		Zinc	5.0	U	ug/L	P414566	
	EPA 200.8 Rev. 5.4	Aluminum	233		ug/L	P414566	
		Antimony	0.051	I	ug/L	P414566	
		Arsenic	1.34		ug/L	P414566	
		Barium	10.3		ug/L	P414566	
		Beryllium	0.012	I	ug/L	P414566	
		Boron**	15.5		ug/L	P414566	
		Cadmium	0.020	U	ug/L	P414566	
		Chromium	0.41	I	ug/L	P414566	
		Cobalt	0.067	I	ug/L	P414566	
		Copper	0.40	U	ug/L	P414566	
		Lead	0.20	U	ug/L	P414566	
		Manganese	20.0		ug/L	P414566	
		Molybdenum	0.47	I	ug/L	P414566	
		Nickel	0.50	U	ug/L	P414566	
		Selenium	0.20	U	ug/L	P414566	
		Silver	0.010	U	ug/L	P414566	
		Thallium	0.10	U	ug/L	P414566	
	SM 2340 B-2011	Hardness	48.6		mg/L	P414566	

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

Sample Location: Little River upstream HWY268 **Collection Date/Time: 05/31/2022 12:05**

Field ID: G1TLHR0158 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2330714	EPA 8321B	2,4-D	0.0020	U	ug/L	P414579	
		Acesulfame K	0.10	U	ug/L	P414602	MS
		2,4,5-T	0.0040	U	ug/L	P414579	
		AMPA	0.10	U	ug/L	P414602	
		Acetaminophen	0.0080	U	ug/L	P414579	
		Acetamiprid	0.0020	U	ug/L	P414579	
		Endothall	0.25	U	ug/L	P414602	
		Glufosinate	0.10	U	ug/L	P414602	
		Glyphosate	0.10	U	ug/L	P414602	
		Afidopyropen	0.0020	U	ug/L	P414579	
		Bentazon	0.010		ug/L	P414579	
		Sucralose	0.38		ug/L	P414602	
		Benzovindiflupyr	0.012		ug/L	P414579	
		Carbamazepine	9.8E-04	I	ug/L	P414579	
		Clothianidin	0.0020	I	ug/L	P414579	
		Dinotefuran	0.054		ug/L	P414579	
		Diuron	0.0039	I	ug/L	P414579	
		Fenuron	0.032	U	ug/L	P414579	
		Fluridone	8.0E-04	U	ug/L	P414579	
		Imazapyr	0.024		ug/L	P414579	
		Hydrocodone	0.0020	U	ug/L	P414579	
		Ibuprofen	0.020	U	ug/L	P414579	
		Imidacloprid	0.0088		ug/L	P414579	MS
		Linuron	0.0040	U	ug/L	P414579	
		Mandestrobin	0.0020	U	ug/L	P414579	
		MCPP	0.0040	U	ug/L	P414579	
		Naproxen	0.0080	U	ug/L	P414579	
		Primidone	0.0040	U	ug/L	P414579	
		Pyraclostrobin	0.0020	U	ug/L	P414579	
		Silvex	0.0040	U	ug/L	P414579	
		Thiamethoxam	0.0020	U	ug/L	P414579	
		Tolfenpyrad	0.0020	U	ug/L	P414579	
		Triclopyr	0.0040	U	ug/L	P414579	
2330721	EPA 200.7 Rev. 4.4	Calcium	7.06		mg/L	P414566	
		Iron	1.39E+03		ug/L	P414566	
		Magnesium	2.77		mg/L	P414566	
		Potassium	1.1	I	mg/L	P414566	
		Sodium	4.8		mg/L	P414566	
		Strontium	24.7		ug/L	P414566	
		Tin	3.0	U	ug/L	P414566	
		Titanium	14.5		ug/L	P414566	
		Vanadium	2.8	I	ug/L	P414566	
		Zinc	5.0	U	ug/L	P414566	
	EPA 200.8 Rev. 5.4	Aluminum	316		ug/L	P414566	

Field ID: G1TLHR0158 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2330721	EPA 200.8 Rev. 5.4	Antimony	0.050	U	ug/L	P414566	
		Arsenic	0.85		ug/L	P414566	
		Barium	18.6		ug/L	P414566	
		Beryllium	0.020	I	ug/L	P414566	
		Boron**	13.4		ug/L	P414566	
		Cadmium	0.020	U	ug/L	P414566	
		Chromium	0.59	I	ug/L	P414566	
		Cobalt	0.125		ug/L	P414566	
		Copper	0.56	I	ug/L	P414566	
		Lead	0.35	I	ug/L	P414566	
		Manganese	36.1		ug/L	P414566	
		Molybdenum	0.22	I	ug/L	P414566	
		Nickel	0.50	U	ug/L	P414566	
		Selenium	0.20	U	ug/L	P414566	
		Silver	0.010	U	ug/L	P414566	
		Thallium	0.10	U	ug/L	P414566	
	SM 2340 B-2011	Hardness	29.1		mg/L	P414566	

Ref. Method and Comment:
EPA 8321B: MS accuracy and precision for bentazon could not be assessed due to high concentration of parameter in the spiked sample. MS accuracy for some analytes 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: P414599

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P414605

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P414566

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: P414566

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Barium	0.62	I	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: P414982

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: P414986

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415079

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415171

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414691

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414857

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P415070

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P414629

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P414593

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

Reference Method: EPA 8270E
Batch ID: P414502

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P414502

Component	Result	Code	Units
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	2.5	U	ng/L
Carbophenothion	2.5	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P414502

Component	Result	Code	Units
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P414502

Component	Result	Code	Units
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	0.30	U	ng/L
Prodiamine	0.30	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L
Terbuthylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P414640

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P414640

Component	Result	Code	Units
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.70	U	ng/L
Mirex	0.70	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276
Batch ID: P414640

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8276
Batch ID: P414640

Component	Result	Code	Units
Toxaphene	15	U	ng/L

Reference Method: EPA 8321B
Batch ID: P414473

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

Reference Method: EPA 8321B
Batch ID: P414579

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P414602

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: SM 2320 B-2011
Batch ID: P414793

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

Reference Method: SM 2540 C-2011
Batch ID: P414802

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P414768

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P414800

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P414683

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: P414599

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.9		P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P414605

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P414566

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	103		P	85 - 115
Iron	110		P	85 - 115
Magnesium	111		P	85 - 115
Potassium	104		P	85 - 115
Sodium	107		P	85 - 115
Strontium	96.9		P	85 - 115
Tin	98.9		P	85 - 115
Titanium	104		P	85 - 115
Vanadium	95.8		P	85 - 115
Zinc	104		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P414566

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	97.2		P	85 - 115
Antimony	97.9		P	85 - 115
Arsenic	98.4		P	85 - 115
Barium	103		P	85 - 115
Beryllium	94.0		P	85 - 115
Boron	98.2		P	85 - 115
Cadmium	96.7		P	85 - 115
Chromium	95.6		P	85 - 115
Cobalt	98.7		P	85 - 115
Copper	96.1		P	85 - 115
Lead	96.9		P	85 - 115
Manganese	96.8		P	85 - 115
Molybdenum	97.0		P	85 - 115
Nickel	96.7		P	85 - 115
Selenium	97.4		P	85 - 115
Silver	101		P	85 - 115
Thallium	97.0		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P414982

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P414986

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415079

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415171

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414691

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414857

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P415070

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P414629

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P414593

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

Reference Method: EPA 8270E
Batch ID: P414502

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	103		P	70 - 121
Alachlor	90.0		P	68 - 119
Ametryn	108		P	64 - 139
Atrazine	106		P	76 - 120

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P414502

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Atrazine Desethyl	116		P	44 - 126
Azinphos Methyl	107		P	43 - 192
Azoxystrobin	115		P	36 - 224
Bromacil	87.2		P	52 - 121
Butylate	63.1		P	28 - 91.0
Caffeine	69.8		P	50 - 134
Carbophenothion	89.7		P	56 - 129
Carfentrazone Ethyl	110		P	60 - 141
Chlorfenapyr	85.4		P	56 - 115
Chlorpyrifos Ethyl	83.1		P	60 - 118
Chlorpyrifos Methyl	94.6		P	68 - 119
Coumaphos	93.6		P	18 - 250
Cyanazine	103		P	61 - 250
Cyprodinil	99.9		P	55 - 145
Demeton	78.5		P	30 - 159
Diazinon	96.2		P	70 - 123
Difenoconazole	127		P	49 - 204
Dimethenamid	82.8		P	64 - 115
Dimethomorph	107		P	12 - 219
Disulfoton	87.1		P	44 - 125
Dithiopyr	86.3		P	64 - 115
EPTC	59.6		P	28 - 86.0
Ethion	77.2		P	33 - 125
Ethoprop	86.1		P	64 - 116
Etridiazole	63.6		P	34 - 91.0
Fenamiphos	87.0		P	12 - 127
Fenbuconazole	95.3		P	59 - 151
Fipronil	105		P	67 - 129
Fipronil Desulfinyl	106		P	65 - 127
Fipronil Sulfide	93.4		P	61 - 116
Fipronil Sulfone	82.8		P	55 - 117
Fluazifop-P-butyl	104		P	62 - 127
Fludioxonil	93.9		P	62 - 128
Flumioxazin	147		P	33 - 250
Flutolanil	102		P	56 - 127
Fluxapyroxad	88.7		P	45 - 128
Fonofos	86.2		P	62 - 111
Hexazinone	93.3		P	46 - 139
Imazalil	84.3		P	38 - 142
Iprodione	93.8		P	47 - 135
Loratadine	104		P	10 - 244
Malathion	82.3		P	61 - 139
Metalaxyl	87.5		P	10 - 119
Metolachlor	84.7		P	65 - 118
Metribuzin	89.2		P	51 - 250
Mevinphos	78.7		P	53 - 121
Molinate	69.6		P	42 - 96.0
Myclobutanil	91.2		P	55 - 128
Naled	82.9		P	10 - 98.0
Napropamide	85.2		P	49 - 121
Norflurazon	86.5		P	61 - 126
Oxadiazon	77.8		P	59 - 116

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P414502

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Oxyfluorfen	113		P	64 - 137
Parathion Ethyl	88.2		P	70 - 112
Parathion Methyl	118		P	76 - 133
Pendimethalin	101		P	52 - 117
Phenytoin	41.8		P	10 - 199
Phorate	76.6		P	48 - 121
Prodiamine	39.7		P	26 - 142
Prometon	71.2		P	43 - 123
Prometryn	99.6		P	66 - 127
Pronamide	104		P	75 - 121
Propanil	138		P	45 - 150
Propargite	74.0		P	42 - 208
Propiconazole	98.6		P	60 - 125
Pyraflufen Ethyl	93.9		P	70 - 138
Pyridaben	93.6		P	35 - 245
Pyriproxyfen	96.5		P	30 - 149
Simazine	101		P	72 - 125
Stirophos	71.5		P	29 - 164
Sulfentrazone	91.6		P	21 - 139
Tebuconazole	60.7		P	10 - 115
Terbufos	98.6		P	60 - 123
Terbuthylazine	91.3		P	72 - 115
Thiobencarb	82.2		P	31 - 139
Triadimefon	83.8		P	65 - 116

Reference Method: EPA 8270E
Batch ID: P414640

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	62.4		P	10 - 93.0
Alpha-BHC	100		P	75 - 106
Alpha-Chlordane	82.7		P	50 - 109
Beta-BHC	111		P	36 - 138
Beta-Cyfluthrin	72.9		P	23 - 167
Bifenthrin	61.3		P	11 - 123
Chlorothalonil	74.9		P	27 - 190
Cis-Nonachlor	73.4		P	40 - 111
Cypermethrin	77.3		P	25 - 155
Dacthal	98.5		P	72 - 119
DDD-p,p'	80.2		P	47 - 108
DDE-p,p'	80.1		P	48 - 107
DDT-p,p'	78.6		P	49 - 111
Delta-BHC	119		P	54 - 138
Deltamethrin	80.8		P	22 - 189
Dichlobenil	89.5		P	32 - 113
Dicofol	109		F	50 - 108
Dieldrin	86.6		P	56 - 110
Endosulfan I	88.4		P	60 - 105
Endosulfan II	92.5		P	50 - 120
Endosulfan Sulfate	102		P	55 - 121
Endrin	85.1		P	31 - 119
Endrin Aldehyde	75.3		P	36 - 116

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P414640

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endrin Ketone	84.5		P	69 - 177
Esfenvalerate	77.3		P	10 - 179
Ethalfluralin	83.4		P	49 - 99.0
Fenpropathrin	72.9		P	35 - 119
Gamma-BHC	107		P	69 - 120
Gamma-Chlordane	79.4		P	45 - 107
Heptachlor	74.3		P	41 - 100
Heptachlor Epoxide	68.3		P	58 - 106
Hexachlorobenzene	78.4		P	39 - 100
Kepone	151		P	10 - 191
Lambda-Cyhalothrin	69.6		P	21 - 206
Methoprene	61.1		P	10 - 129
Methoxychlor	90.2		P	61 - 111
MGK-264	88.1		P	20 - 123
Mirex	66.5		P	10 - 182
Oxychlordane	79.8		P	39 - 110
Permethrin	72.2		P	26 - 152
Phenothrin	54.3		P	10 - 109
Piperonyl Butoxide	116		P	19 - 147
Prallethrin	80.2		P	14 - 109
Tau-Fluvalinate	68.5		P	16 - 134
Tetramethrin	106		P	10 - 125
Trans-Nonachlor	76.3		P	45 - 107
Triclosan Methyl	85.9		P	60 - 110
Trifluralin	78.6		P	44 - 101

Reference Method: EPA 8276
Batch ID: P414640

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	106		P	61 - 118
Toxaphene	105		P	51 - 122

Reference Method: EPA 8321B
Batch ID: P414473

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	95.5		P	40 - 150
Aldicarb	84.3		P	30 - 150
Aldicarb Sulfone	99.9		P	40 - 150
Aldicarb Sulfoxide	97.2		P	40 - 150
Carbaryl	76.9		P	40 - 150
Carbofuran	88.5		P	40 - 150
Methiocarb	70.2		P	40 - 150
Methomyl	93.7		P	40 - 150
Oxamyl	100		P	40 - 150
Propoxur	91.8		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P414579

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P414579

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	68.6		P	40 - 150
2,4,5-T	48.5		P	40 - 150
Acetaminophen	69.3		P	30 - 150
Acetamiprid	79.5		P	40 - 150
Afidopyropen	56.6		P	30 - 150
Bentazon	93.3		P	30 - 150
Benzovindiflupyr	87.8		P	40 - 150
Carbamazepine	94.8		P	40 - 150
Clothianidin	100		P	40 - 150
Dinotefuran	101		P	40 - 150
Diuron	95.4		P	40 - 150
Fenuron	103		P	40 - 150
Fluridone	95.1		P	40 - 150
Hydrocodone	87.0		P	40 - 150
Ibuprofen	85.3		P	40 - 150
Imazapyr	90.0		P	40 - 150
Imidacloprid	91.1		P	40 - 150
Linuron	84.7		P	40 - 150
Mandestrobin	91.1		P	40 - 150
MCPP	77.7		P	40 - 150
Naproxen	70.8		P	40 - 150
Primidone	98.9		P	40 - 150
Pyraclostrobin	83.9		P	40 - 150
Silvex	48.9		P	40 - 150
Thiamethoxam	93.9		P	40 - 150
Tolfenpyrad	44.7		P	30 - 150
Triclopyr	56.1		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P414602

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	147		P	40 - 150
AMPA	91.4		P	40 - 150
Endothall	70.4		P	40 - 150
Glufosinate	98.8		P	40 - 150
Glyphosate	94.7		P	40 - 150
Sucralose	110		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P414793

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.3		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P414800

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.4		P	96 - 104

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P414683

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

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P414566

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2330722	Calcium	101		P	80 - 120
2330722	Iron	108	110	P/P	80 - 120
2330722	Magnesium	104		P	80 - 120
2330722	Potassium	106		P	80 - 120
2330722	Sodium	104		P	80 - 120
2330722	Strontium	95.7	97.0	P/P	80 - 120
2330722	Tin	104	105	P/P	80 - 120
2330722	Titanium	106	104	P/P	80 - 120
2330722	Vanadium	101	102	P/P	80 - 120
2330722	Zinc	103	104	P/P	80 - 120
2330723	Calcium	106		P	80 - 120
2330723	Iron	114		P	80 - 120
2330723	Magnesium	106		P	80 - 120
2330723	Potassium	112		P	80 - 120
2330723	Sodium	110		P	80 - 120
2330723	Strontium	104		P	80 - 120
2330723	Tin	107		P	80 - 120
2330723	Titanium	110		P	80 - 120
2330723	Vanadium	103		P	80 - 120
2330723	Zinc	110		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P414566

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2330722	Aluminum	101	99.4	P/P	80 - 120
2330722	Antimony	102	101	P/P	80 - 120
2330722	Arsenic	101	99.0	P/P	80 - 120
2330722	Barium	103	102	P/P	80 - 120
2330722	Beryllium	99.7	95.8	P/P	80 - 120
2330722	Boron	104	103	P/P	80 - 120
2330722	Cadmium	102	97.1	P/P	80 - 120
2330722	Chromium	98.8	97.7	P/P	80 - 120
2330722	Cobalt	101	99.0	P/P	80 - 120
2330722	Copper	95.6	95.5	P/P	80 - 120
2330722	Lead	101	99.8	P/P	80 - 120
2330722	Manganese	103	99.8	P/P	80 - 120
2330722	Molybdenum	103	100	P/P	80 - 120
2330722	Nickel	99.2	98.3	P/P	80 - 120
2330722	Selenium	98.0	96.6	P/P	80 - 120
2330722	Silver	102	98.4	P/P	80 - 120
2330722	Thallium	103	102	P/P	80 - 120
2330723	Aluminum	96.1		P	80 - 120
2330723	Antimony	100		P	80 - 120
2330723	Arsenic	99.5		P	80 - 120
2330723	Barium	103		P	80 - 120
2330723	Beryllium	98.5		P	80 - 120
2330723	Boron	100		P	80 - 120
2330723	Cadmium	99.8		P	80 - 120
2330723	Chromium	98.3		P	80 - 120
2330723	Cobalt	98.9		P	80 - 120
2330723	Copper	96.4		P	80 - 120

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P414566

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2330723	Lead	99.4		P	80 - 120
2330723	Manganese	101		P	80 - 120
2330723	Molybdenum	99.2		P	80 - 120
2330723	Nickel	97.7		P	80 - 120
2330723	Selenium	96.2		P	80 - 120
2330723	Silver	98.9		P	80 - 120
2330723	Thallium	100		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P414982

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2330377	Chloride	96.5		P	90 - 110
2330730	Chloride	95.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P414986

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2330377	Sulfate	92.8		P	90 - 110
2330730	Sulfate	96.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415079

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2330467	Ammonia-N	96.4	97.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415171

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2329315	Ammonia-N	97.0	96.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414857

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331021	Kjeldahl Nitrogen	98.0	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P415070

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2330822	NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P414629

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2330561	Total-P	104	104	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P414593

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2330824	O-Phosphate-P	98.4	99.7	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P414502

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2330540	Acetochlor	85.4	84.2	P/P	65 - 124
2330540	Alachlor	74.0	72.5	P/P	61 - 121
2330540	Azinphos Methyl	76.8	84.9	P/P	40 - 292
2330540	Azoxystrobin	187	169	P/P	12 - 242
2330540	Bromacil	74.5	69.2	P/P	54 - 167
2330540	Butylate	39.2	28.8	P/P	14 - 94.0
2330540	Caffeine	106	96.7	P/P	10 - 226
2330540	Carbophenothion	67.2	66.9	P/P	49 - 122
2330540	Carfentrazone Ethyl	79.9	78.5	P/P	53 - 138
2330540	Chlorfenapyr	69.7	61.4	P/P	50 - 150
2330540	Chlorpyrifos Ethyl	84.1	83.4	P/P	52 - 122
2330540	Chlorpyrifos Methyl	81.0	80.6	P/P	66 - 117
2330540	Coumaphos	62.3	68.0	P/P	50 - 220
2330540	Cyanazine	86.0	86.2	P/P	43 - 245
2330540	Cyprodinil	83.4	84.3	P/P	50 - 150
2330540	Demeton	69.2	72.1	P/P	43 - 188
2330540	Diazinon	90.3	86.8	P/P	69 - 131
2330540	Difenoconazole	89.1	103	P/P	34 - 231
2330540	Dimethenamid	66.6	69.1	P/P	55 - 118
2330540	Dimethomorph	171	121	F/P	50 - 150
2330540	Disulfoton	82.9	77.2	P/P	38 - 141
2330540	Dithiopyr	68.1	67.4	P/P	42 - 116
2330540	EPTC	30.6	25.4	P/P	18 - 85.0
2330540	Ethion	42.6	63.8	P/P	10 - 131
2330540	Ethoprop	90.9	89.3	P/P	65 - 129
2330540	Etridiazole	42.5	35.4	F/F	50 - 150
2330540	Fenamiphos	62.4	85.8	P/P	31 - 137
2330540	Fenbuconazole	71.4	71.9	P/P	57 - 160
2330540	Fipronil	83.0	82.3	P/P	62 - 132
2330540	Fipronil Sulfide	89.7	87.1	P/P	15 - 138
2330540	Fipronil Sulfone	68.8	61.8	P/P	21 - 134
2330540	Fluazifop-P-butyl	79.3	79.9	P/P	54 - 133
2330540	Fludioxonil	75.4	72.6	P/P	58 - 127
2330540	Flumioxazin	111	122	P/P	33 - 300
2330540	Flutolanil	74.8	78.4	P/P	42 - 130
2330540	Fluxapyroxad	57.1	66.0	P/P	23 - 141
2330540	Fonofos	88.5	85.0	P/P	58 - 119
2330540	Hexazinone	88.1	87.6	P/P	68 - 172
2330540	Imazalil	195	168	P/P	48 - 283
2330540	Iprodione	78.2	75.0	P/P	38 - 140
2330540	Loratadine	168	118	F/P	50 - 150
2330540	Malathion	72.2	71.1	P/P	40 - 137
2330540	Metalaxyl	81.4	68.0	P/P	21 - 129
2330540	Metolachlor	62.3	66.7	P/P	55 - 122
2330540	Metribuzin	94.4	76.2	P/P	38 - 187
2330540	Mevinphos	77.1	77.2	P/P	54 - 134

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P414502

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2330540	Molinate	54.2	49.4	P/P	41 - 97.0
2330540	Myclobutanil	75.5	78.1	P/P	56 - 125
2330540	Naled	71.4	72.2	P/P	10 - 108
2330540	Napropamide	60.2	64.3	P/P	50 - 150
2330540	Norflurazon	64.7	60.0	P/P	32 - 122
2330540	Oxyfluorfen	93.0	96.1	P/P	61 - 153
2330540	Parathion Ethyl	81.6	82.2	P/P	59 - 130
2330540	Parathion Methyl	119	119	P/P	65 - 155
2330540	Pendimethalin	99.6	102	P/P	49 - 138
2330540	Phenytoin	27.7	31.5	F/F	50 - 200
2330540	Phorate	70.6	75.1	P/P	54 - 161
2330540	Prodiamine	39.1	43.3	P/P	33 - 161
2330540	Prometon	71.4	66.5	P/P	48 - 140
2330540	Prometryn	85.5	82.1	P/P	55 - 134
2330540	Pronamide	86.1	86.0	P/P	66 - 137
2330540	Propanil	122	116	P/P	50 - 150
2330540	Propargite	45.5	47.8	F/F	50 - 200
2330540	Propiconazole	91.9	88.3	P/P	36 - 150
2330540	Pyraflufen Ethyl	71.5	66.7	P/P	50 - 150
2330540	Pyridaben	97.2	80.7	P/P	50 - 200
2330540	Pyriproxyfen	57.9	67.9	P/P	10 - 165
2330540	Simazine	93.9	61.7	P/P	57 - 145
2330540	Stirophos	43.6	53.6	F/P	50 - 150
2330540	Tebuconazole	37.7	52.4	P/P	10 - 127
2330540	Terbufos	101	98.9	P/P	59 - 138
2330540	Terbuthylazine	80.7	82.6	P/P	68 - 119
2330540	Thiobencarb	67.8	55.0	P/P	50 - 150
2330540	Triadimefon	71.6	74.8	P/P	50 - 150

Reference Method: EPA 8270E
Batch ID: P414640

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331486	Aldrin	59.8	61.3	P/P	10 - 89.0
2331486	Alpha-BHC	93.8	94.8	P/P	71 - 105
2331486	Alpha-Chlordane	64.0	61.0	P/P	43 - 107
2331486	Beta-BHC	90.6	84.3	P/P	57 - 152
2331486	Beta-Cyfluthrin	79.6	77.2	P/P	29 - 186
2331486	Bifenthrin	63.3	66.0	P/P	19 - 119
2331486	Chlorothalonil	72.6	79.2	P/P	10 - 245
2331486	Cis-Nonachlor	71.9	65.4	P/P	36 - 110
2331486	Cypermethrin	82.2	78.8	P/P	24 - 169
2331486	Dacthal	92.0	86.5	P/P	62 - 115
2331486	DDD-p,p'	59.2	53.6	P/P	36 - 109
2331486	DDE-p,p'	59.2	53.6	P/P	30 - 114
2331486	DDT-p,p'	68.3	68.5	P/P	42 - 108
2331486	Delta-BHC	94.7	89.1	P/P	60 - 164
2331486	Deltamethrin	86.5	84.1	P/P	10 - 210
2331486	Dichlobenil	75.4	64.6	P/P	23 - 108
2331486	Dicofol	136	125	F/F	44 - 109
2331486	Dieldrin	68.3	62.0	P/P	37 - 119
2331486	Endosulfan I	77.1	71.7	P/P	52 - 105

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P414640

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331486	Endosulfan II	86.8	75.6	P/P	35 - 127
2331486	Endosulfan Sulfate	90.0	80.8	P/P	39 - 130
2331486	Endrin	75.6	69.6	P/P	30 - 116
2331486	Endrin Aldehyde	84.5	71.6	P/P	20 - 110
2331486	Endrin Ketone	88.2	75.9	P/P	48 - 134
2331486	Esfenvalerate	80.7	83.5	P/P	10 - 199
2331486	Ethalfluralin	82.2	80.9	P/P	48 - 95.0
2331486	Fenpropathrin	76.6	69.7	P/P	37 - 121
2331486	Gamma-BHC	97.2	98.0	P/P	61 - 126
2331486	Gamma-Chlordane	58.7	55.8	P/P	39 - 105
2331486	Heptachlor	71.1	71.9	P/P	38 - 96.0
2331486	Heptachlor Epoxide	78.4	68.2	P/P	42 - 114
2331486	Hexachlorobenzene	66.0	61.3	P/P	39 - 93.0
2331486	Kepone	212	175	P/P	10 - 215
2331486	Lambda-Cyhalothrin	70.8	73.1	P/P	10 - 204
2331486	Methoprene	62.9	59.8	P/P	17 - 108
2331486	Methoxychlor	90.1	89.7	P/P	56 - 115
2331486	MGK-264	87.8	80.7	P/P	35 - 120
2331486	Mirex	63.4	62.0	P/P	10 - 178
2331486	Oxychlordane	74.3	73.8	P/P	47 - 91.0
2331486	Permethrin	77.3	74.1	P/P	27 - 170
2331486	Phenothrin	63.2	60.0	P/P	10 - 133
2331486	Piperonyl Butoxide	114	105	P/P	23 - 150
2331486	Prallethrin	81.9	72.5	P/P	21 - 113
2331486	Tau-Fluvalinate	71.4	77.0	P/P	16 - 158
2331486	Tetramethrin	117	101	P/P	22 - 132
2331486	Trans-Nonachlor	75.2	71.7	P/P	43 - 102
2331486	Triclosan Methyl	81.8	73.7	P/P	49 - 109
2331486	Trifluralin	77.2	75.9	P/P	48 - 93.0

Reference Method: EPA 8321B
Batch ID: P414473

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2329909	3-Hydroxycarbofuran	106	112	P/P	40 - 150
2329909	Aldicarb	85.4	90.4	P/P	30 - 150
2329909	Aldicarb Sulfone	109	115	P/P	40 - 150
2329909	Aldicarb Sulfoxide	50.5	52.8	P/P	40 - 150
2329909	Carbaryl	71.5	76.9	P/P	40 - 150
2329909	Carbofuran	81.5	91.7	P/P	40 - 150
2329909	Methiocarb	68.2	74.5	P/P	40 - 150
2329909	Methomyl	86.7	93.3	P/P	40 - 150
2329909	Oxamyl	99.1	104	P/P	40 - 150
2329909	Propoxur	86.9	92.3	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P414579

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2330715	2,4-D	101	81.9	P/P	40 - 150
2330715	2,4,5-T	77.2	65.9	P/P	40 - 150
2330715	Acetaminophen	113	114	P/P	30 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P414579

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2330715	Acetamiprid	101	85.8	P/P	40 - 150
2330715	Afidopyropen	71.1	60.9	P/P	30 - 150
2330715	Carbamazepine	113	109	P/P	40 - 150
2330715	Clothianidin	127	120	P/P	40 - 150
2330715	Diuron	86.5	76.0	P/P	40 - 150
2330715	Fenuron	93.9	92.5	P/P	40 - 150
2330715	Fluridone	92.7	89.7	P/P	40 - 150
2330715	Hydrocodone	107	101	P/P	40 - 150
2330715	Ibuprofen	85.6	84.4	P/P	40 - 150
2330715	Imazapyr	106	107	P/P	40 - 150
2330715	Imidacloprid	159	157	F/F	40 - 150
2330715	Linuron	85.4	79.3	P/P	40 - 150
2330715	Mandestrobin	90.9	87.2	P/P	40 - 150
2330715	MCPP	111	101	P/P	40 - 150
2330715	Naproxen	76.1	72.8	P/P	40 - 150
2330715	Primidone	112	118	P/P	40 - 150
2330715	Pyraclostrobin	96.0	91.1	P/P	40 - 150
2330715	Silvex	73.5	58.2	P/P	40 - 150
2330715	Thiamethoxam	136	138	P/P	40 - 150
2330715	Tolfenpyrad	53.7	49.9	P/P	30 - 150
2330715	Triclopyr	81.3	69.5	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P414602

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2330564	Acesulfame K	155	150	F/F	40 - 150
2330564	AMPA	88.2	91.4	P/P	40 - 150
2330564	Endothall	69.3	69.0	P/P	40 - 150
2330564	Glufosinate	95.1	99.5	P/P	40 - 150
2330564	Glyphosate	94.9	83.6	P/P	40 - 150
2330564	Sucralose	114	114	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P414800

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2330291	Fluoride	98.1	98.7	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P414683

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2330379	Organic Carbon	93.4	92.4	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P414599

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2330698	Color (true)	4.88	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P414605

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2330699	Turbidity	2.89	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P414566

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2330722	Calcium	0.0219	Spike	P	0 - 20
2330722	Iron	1.78	Spike	P	0 - 20
2330722	Magnesium	2.31	Spike	P	0 - 20
2330722	Potassium	1.34	Spike	P	0 - 20
2330722	Sodium	0.124	Spike	P	0 - 20
2330722	Strontium	1.25	Spike	P	0 - 20
2330722	Tin	1.14	Spike	P	0 - 20
2330722	Titanium	1.80	Spike	P	0 - 20
2330722	Vanadium	1.54	Spike	P	0 - 20
2330722	Zinc	0.588	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P414566

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2330722	Aluminum	1.83	Spike	P	0 - 20
2330722	Antimony	1.18	Spike	P	0 - 20
2330722	Arsenic	1.86	Spike	P	0 - 20
2330722	Barium	1.09	Spike	P	0 - 20
2330722	Beryllium	3.96	Spike	P	0 - 20
2330722	Boron	0.790	Spike	P	0 - 20
2330722	Cadmium	4.47	Spike	P	0 - 20
2330722	Chromium	1.04	Spike	P	0 - 20
2330722	Cobalt	1.65	Spike	P	0 - 20
2330722	Copper	0.121	Spike	P	0 - 20
2330722	Lead	0.931	Spike	P	0 - 20
2330722	Manganese	1.74	Spike	P	0 - 20
2330722	Molybdenum	2.69	Spike	P	0 - 20
2330722	Nickel	0.931	Spike	P	0 - 20
2330722	Selenium	1.45	Spike	P	0 - 20
2330722	Silver	3.96	Spike	P	0 - 20
2330722	Thallium	0.466	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P414982

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2330377	Chloride	0.292	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P414986

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2330377	Sulfate	0.316	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415079

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2330467	Ammonia-N	0.562	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415171

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2329315	Ammonia-N	0.898	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414691

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2330319	Kjeldahl Nitrogen	0.584	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414857

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331021	Kjeldahl Nitrogen	3.46	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P415070

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2330822	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P414629

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2330561	Total-P	0.0219	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P414593

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2330824	O-Phosphate-P	1.31	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P414502

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2330540	Acetochlor	1.39	Spike	P	0 - 27
2330540	Alachlor	1.99	Spike	P	0 - 27
2330540	Ametryn	7.41	Spike	P	0 - 34
2330540	Atrazine	23.8	Spike	P	0 - 41
2330540	Atrazine Desethyl	8.48	Spike	P	0 - 38
2330540	Azinphos Methyl	10.1	Spike	P	0 - 62
2330540	Azoxystrobin	9.80	Spike	P	0 - 32
2330540	Bromacil	7.37	Spike	P	0 - 30
2330540	Butylate	30.7	Spike	P	0 - 59
2330540	Caffeine	8.94	Spike	P	0 - 60
2330540	Carbophenothion	0.341	Spike	P	0 - 25
2330540	Carfentrazone Ethyl	1.78	Spike	P	0 - 26
2330540	Chlorfenapyr	12.8	Spike	P	0 - 30
2330540	Chlorpyrifos Ethyl	0.818	Spike	P	0 - 27
2330540	Chlorpyrifos Methyl	0.538	Spike	P	0 - 26
2330540	Coumaphos	8.75	Spike	P	0 - 30
2330540	Cyanazine	0.162	Spike	P	0 - 58
2330540	Cyprodinil	1.09	Spike	P	0 - 30
2330540	Demeton	4.13	Spike	P	0 - 25
2330540	Diazinon	3.87	Spike	P	0 - 29
2330540	Difenoconazole	14.9	Spike	P	0 - 25
2330540	Dimethenamid	3.71	Spike	P	0 - 30
2330540	Dimethomorph	34.4	Spike	F	0 - 30
2330540	Disulfoton	7.08	Spike	P	0 - 33
2330540	Dithiopyr	0.963	Spike	P	0 - 22
2330540	EPTC	18.7	Spike	P	0 - 38
2330540	Ethion	39.7	Spike	P	0 - 79
2330540	Ethoprop	1.82	Spike	P	0 - 23
2330540	Etridiazole	18.3	Spike	P	0 - 30
2330540	Fenamiphos	31.5	Spike	P	0 - 58
2330540	Fenbuconazole	0.708	Spike	P	0 - 37
2330540	Fipronil	0.723	Spike	P	0 - 33
2330540	Fipronil Desulfinyl	1.75	Spike	P	0 - 26
2330540	Fipronil Sulfide	1.72	Spike	P	0 - 37
2330540	Fipronil Sulfone	3.05	Spike	P	0 - 50
2330540	Fluazifop-P-butyl	0.803	Spike	P	0 - 24
2330540	Fludioxonil	3.71	Spike	P	0 - 26
2330540	Flumioxazin	9.85	Spike	P	0 - 37
2330540	Flutolanil	4.11	Spike	P	0 - 26
2330540	Fluxapyroxad	12.0	Spike	P	0 - 34
2330540	Fonofos	4.12	Spike	P	0 - 27
2330540	Hexazinone	0.562	Spike	P	0 - 36
2330540	Imazalil	14.6	Spike	P	0 - 65
2330540	Iprodione	4.17	Spike	P	0 - 33

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P414502

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2330540	Loratadine	34.9	Spike	F	0 - 30
2330540	Malathion	1.45	Spike	P	0 - 44
2330540	Metalaxyl	17.9	Spike	P	0 - 38
2330540	Metolachlor	4.85	Spike	P	0 - 36
2330540	Metribuzin	21.3	Spike	P	0 - 63
2330540	Mevinphos	0.131	Spike	P	0 - 26
2330540	Molinate	9.35	Spike	P	0 - 40
2330540	Myclobutanil	2.00	Spike	P	0 - 21
2330540	Naled	1.11	Spike	P	0 - 26
2330540	Napropamide	6.59	Spike	P	0 - 30
2330540	Norflurazon	7.58	Spike	P	0 - 24
2330540	Oxadiazon	16.7	Spike	P	0 - 27
2330540	Oxyfluorfen	3.30	Spike	P	0 - 24
2330540	Parathion Ethyl	0.753	Spike	P	0 - 28
2330540	Parathion Methyl	0.0758	Spike	P	0 - 27
2330540	Pendimethalin	2.47	Spike	P	0 - 31
2330540	Phenytoin	12.6	Spike	P	0 - 30
2330540	Phorate	6.14	Spike	P	0 - 27
2330540	Prodiamine	10.2	Spike	P	0 - 52
2330540	Prometon	7.10	Spike	P	0 - 31
2330540	Prometryn	4.08	Spike	P	0 - 28
2330540	Pronamide	0.0203	Spike	P	0 - 26
2330540	Propanil	5.34	Spike	P	0 - 30
2330540	Propargite	4.94	Spike	P	0 - 30
2330540	Propiconazole	2.08	Spike	P	0 - 31
2330540	Pyraflufen Ethyl	6.94	Spike	P	0 - 30
2330540	Pyridaben	18.6	Spike	P	0 - 30
2330540	Pyriproxyfen	15.9	Spike	P	0 - 50
2330540	Simazine	4.45	Spike	P	0 - 29
2330540	Stirophos	20.6	Spike	P	0 - 30
2330540	Sulfentrazone	2.24	Spike	P	0 - 33
2330540	Tebuconazole	23.7	Spike	P	0 - 44
2330540	Terbufos	2.37	Spike	P	0 - 29
2330540	Terbuthylazine	2.35	Spike	P	0 - 27
2330540	Thiobencarb	20.9	Spike	P	0 - 30
2330540	Triadimefon	4.32	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P414640

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331486	Aldrin	2.38	Spike	P	0 - 37
2331486	Alpha-BHC	1.16	Spike	P	0 - 16
2331486	Alpha-Chlordane	3.85	Spike	P	0 - 28
2331486	Beta-BHC	7.25	Spike	P	0 - 32
2331486	Beta-Cyfluthrin	3.02	Spike	P	0 - 41
2331486	Bifenthrin	4.29	Spike	P	0 - 36
2331486	Chlorothalonil	8.76	Spike	P	0 - 54
2331486	Cis-Nonachlor	9.45	Spike	P	0 - 33
2331486	Cypermethrin	4.21	Spike	P	0 - 38

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P414640

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331486	Dacthal	6.13	Spike	P	0 - 23
2331486	DDD-p,p'	7.85	Spike	P	0 - 35
2331486	DDE-p,p'	7.62	Spike	P	0 - 27
2331486	DDT-p,p'	0.190	Spike	P	0 - 31
2331486	Delta-BHC	6.13	Spike	P	0 - 30
2331486	Deltamethrin	2.80	Spike	P	0 - 76
2331486	Dichlobenil	15.4	Spike	P	0 - 33
2331486	Dicofol	8.14	Spike	P	0 - 24
2331486	Dieldrin	8.29	Spike	P	0 - 35
2331486	Endosulfan I	6.85	Spike	P	0 - 25
2331486	Endosulfan II	13.9	Spike	P	0 - 31
2331486	Endosulfan Sulfate	10.8	Spike	P	0 - 38
2331486	Endrin	7.80	Spike	P	0 - 53
2331486	Endrin Aldehyde	16.4	Spike	P	0 - 81
2331486	Endrin Ketone	15.0	Spike	P	0 - 33
2331486	Esfenvalerate	3.39	Spike	P	0 - 46
2331486	Ethalfluralin	1.53	Spike	P	0 - 22
2331486	Fenpropathrin	9.47	Spike	P	0 - 29
2331486	Gamma-BHC	0.809	Spike	P	0 - 17
2331486	Gamma-Chlordane	3.96	Spike	P	0 - 28
2331486	Heptachlor	1.15	Spike	P	0 - 28
2331486	Heptachlor Epoxide	14.0	Spike	P	0 - 23
2331486	Hexachlorobenzene	7.28	Spike	P	0 - 22
2331486	Kepone	19.1	Spike	P	0 - 61
2331486	Lambda-Cyhalothrin	3.22	Spike	P	0 - 52
2331486	Methoprene	5.03	Spike	P	0 - 38
2331486	Methoxychlor	0.504	Spike	P	0 - 29
2331486	MGK-264	8.39	Spike	P	0 - 41
2331486	Mirex	2.20	Spike	P	0 - 39
2331486	Oxychlordane	0.673	Spike	P	0 - 33
2331486	Permethrin	4.15	Spike	P	0 - 39
2331486	Phenothrin	5.17	Spike	P	0 - 52
2331486	Piperonyl Butoxide	8.25	Spike	P	0 - 91
2331486	Prallethrin	12.1	Spike	P	0 - 34
2331486	Tau-Fluvalinate	7.58	Spike	P	0 - 41
2331486	Tetramethrin	14.6	Spike	P	0 - 43
2331486	Trans-Nonachlor	4.78	Spike	P	0 - 31
2331486	Triclosan Methyl	10.5	Spike	P	0 - 24
2331486	Trifluralin	1.70	Spike	P	0 - 23

Reference Method: EPA 8321B
Batch ID: P414473

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2329909	3-Hydroxycarbofuran	5.71	Spike	P	0 - 30
2329909	Aldicarb	5.76	Spike	P	0 - 30
2329909	Aldicarb Sulfone	5.61	Spike	P	0 - 30
2329909	Aldicarb Sulfoxide	4.56	Spike	P	0 - 30
2329909	Carbaryl	7.22	Spike	P	0 - 30
2329909	Carbofuran	11.8	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P414473

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2329909	Methiocarb	8.86	Spike	P	0 - 30
2329909	Methomyl	7.37	Spike	P	0 - 30
2329909	Oxamyl	4.78	Spike	P	0 - 30
2329909	Propoxur	6.06	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P414579

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2330715	2,4-D	20.2	Spike	P	0 - 30
2330715	2,4,5-T	15.7	Spike	P	0 - 30
2330715	Acetaminophen	1.05	Spike	P	0 - 30
2330715	Acetamiprid	13.0	Spike	P	0 - 30
2330715	Afidopyropen	15.5	Spike	P	0 - 30
2330715	Benzovindiflupyr	0.121	Spike	P	0 - 30
2330715	Carbamazepine	3.54	Spike	P	0 - 30
2330715	Clothianidin	4.69	Spike	P	0 - 30
2330715	Dinotefuran	0.943	Spike	P	0 - 30
2330715	Diuron	12.6	Spike	P	0 - 30
2330715	Fenuron	1.51	Spike	P	0 - 30
2330715	Fluridone	3.33	Spike	P	0 - 30
2330715	Hydrocodone	5.99	Spike	P	0 - 30
2330715	Ibuprofen	1.42	Spike	P	0 - 30
2330715	Imazapyr	0.641	Spike	P	0 - 30
2330715	Imidacloprid	0.881	Spike	P	0 - 30
2330715	Linuron	7.41	Spike	P	0 - 30
2330715	Mandestrobin	4.14	Spike	P	0 - 30
2330715	MCPP	9.52	Spike	P	0 - 30
2330715	Naproxen	4.36	Spike	P	0 - 30
2330715	Primidone	4.51	Spike	P	0 - 30
2330715	Pyraclostrobin	4.39	Spike	P	0 - 30
2330715	Silvex	23.2	Spike	P	0 - 30
2330715	Thiamethoxam	0.714	Spike	P	0 - 30
2330715	Tolfenpyrad	7.25	Spike	P	0 - 30
2330715	Triclopyr	15.6	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P414602

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2330564	Acesulfame K	3.00	Spike	P	0 - 30
2330564	AMPA	3.52	Spike	P	0 - 30
2330564	Endothall	0.443	Spike	P	0 - 30
2330564	Glufosinate	4.50	Spike	P	0 - 30
2330564	Glyphosate	12.6	Spike	P	0 - 30
2330564	Sucralose	0.0355	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: SM 2320 B-2011
Batch ID: P414793

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2330291	Total Alkalinity	0.629	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P414802

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2330698	TDS	2.14	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P414800

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2330291	Fluoride	0.489	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P414683

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2330379	Organic Carbon	0.862	Spike	P	0 - 20

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2330714
Field Sample ID: G1TLHR0158

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	101	P	30 - 160
EPA 8321B	Acetaminophen-d4	105	P	30 - 160
EPA 8321B	Carbamazepine-d10	117	P	30 - 160
EPA 8321B	Diuron-d6	86.4	P	30 - 160
EPA 8321B	Endothall-d6	83.8	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	74.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	85.1	P	30 - 160
EPA 8321B	Primidone-d5	102	P	30 - 160
EPA 8321B	Sucralose-d6	140	P	30 - 160

Lab Sample ID: 2330715
Field Sample ID: G1TLHR0160

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	90.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	104	P	30 - 160
EPA 8321B	Carbamazepine-d10	108	P	30 - 160
EPA 8321B	Diuron-d6	85.2	P	30 - 160
EPA 8321B	Endothall-d6	95.0	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	76.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	75.2	P	30 - 160
EPA 8321B	Primidone-d5	99.8	P	30 - 160
EPA 8321B	Sucralose-d6	154	P	30 - 160

Lab Sample ID: 2330716
Field Sample ID: G1TLHR0161

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	95.0	P	30 - 160
EPA 8321B	Acetaminophen-d4	110	P	30 - 160
EPA 8321B	Carbamazepine-d10	116	P	30 - 160
EPA 8321B	Diuron-d6	91.3	P	30 - 160
EPA 8321B	Endothall-d6	98.8	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	82.6	P	30 - 160
EPA 8321B	Ibuprofen-d3	78.6	P	30 - 160
EPA 8321B	Primidone-d5	103	P	30 - 160
EPA 8321B	Sucralose-d6	156	P	30 - 160

Lab Sample ID: 2330717
Field Sample ID: G1TLHR0164

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	81.2	P	30 - 160

Lab Sample ID: 2330718
Field Sample ID: G1TLHR0164

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	94.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	102	P	30 - 160
EPA 8321B	Carbamazepine-d10	115	P	30 - 160
EPA 8321B	Diuron-d6	100	P	30 - 160

Quality Assurance Report
Surrogates

Lab Sample ID: 2330718
Field Sample ID: G1TLHR0164

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Endothall-d6	86.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	77.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	85.1	P	30 - 160
EPA 8321B	Primidone-d5	100	P	30 - 160
EPA 8321B	Sucralose-d6	156	P	30 - 160

Lab Sample ID: 2330719
Field Sample ID: G1TLHR0164

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	70.7	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	58.6	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	67.9	P	30 - 97.0
EPA 8276	PCNB	86.2	P	45 - 119

Lab Sample ID: 2330720
Field Sample ID: G1TLHR0164

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	73.1	P	20 - 200
EPA 8270E	Simazine-d10	103	P	71 - 140
EPA 8270E	Terbufos-d10	81.9	P	62 - 131

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A112549
Included Lab Sample IDs: 2330717

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	103	103	P/P	60 - 150
Aldicarb	98.3	98.5	P/P	60 - 150
Aldicarb Sulfone	102	100	P/P	50 - 150
Aldicarb Sulfoxide	97.2	99.7	P/P	50 - 150
Carbaryl	103	102	P/P	60 - 150
Carbofuran	102	104	P/P	50 - 150
Methiocarb	106	108	P/P	50 - 150
Methomyl	97.4	98.5	P/P	50 - 150
Oxamyl	101	102	P/P	50 - 150
Propoxur	104	105	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A112551
Included Lab Sample IDs: 2330702, 2330703

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.7	99.1	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1
Run ID: A112553
Included Lab Sample IDs: 2330698, 2330699

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.8	104	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A112555
Included Lab Sample IDs: 2330698, 2330699

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: A112557
Included Lab Sample IDs: 2330721, 2330722, 2330723

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.1	98.5	P/P	90 - 110
Aluminum	98.7	98.1	P/P	90 - 110
Antimony	97.5	98.6	P/P	90 - 110
Antimony	98.6	98.6	P/P	90 - 110
Arsenic	98.0	98.3	P/P	90 - 110
Arsenic	99.1	98.0	P/P	90 - 110
Barium	99.1	98.9	P/P	90 - 110
Barium	99.5	99.1	P/P	90 - 110
Beryllium	97.6	98.0	P/P	90 - 110
Beryllium	98.0	96.5	P/P	90 - 110
Boron	96.0	96.4	P/P	90 - 110
Boron	96.4	96.2	P/P	90 - 110
Cadmium	97.0	98.7	P/P	90 - 110
Cadmium	98.7	98.2	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A112557
Included Lab Sample IDs: 2330721, 2330722, 2330723

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chromium	97.4	98.5	P/P	90 - 110
Chromium	98.5	97.7	P/P	90 - 110
Cobalt	98.7	97.8	P/P	90 - 110
Cobalt	99.1	98.7	P/P	90 - 110
Copper	96.9	96.7	P/P	90 - 110
Copper	97.9	96.9	P/P	90 - 110
Lead	96.5	96.7	P/P	90 - 110
Lead	96.7	96.5	P/P	90 - 110
Manganese	97.5	99.2	P/P	90 - 110
Manganese	99.2	97.5	P/P	90 - 110
Molybdenum	97.6	98.3	P/P	90 - 110
Molybdenum	98.3	98.1	P/P	90 - 110
Nickel	97.3	97.2	P/P	90 - 110
Nickel	98.4	97.3	P/P	90 - 110
Selenium	96.4	97.6	P/P	90 - 110
Selenium	97.9	96.4	P/P	90 - 110
Silver	102	102	P/P	90 - 110
Silver	102	102	P/P	90 - 110
Thallium	95.3	96.0	P/P	90 - 110
Thallium	96.0	95.2	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A112583
Included Lab Sample IDs: 2330700, 2330701

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.8	96.9	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A112591
Included Lab Sample IDs: 2330714, 2330715, 2330716, 2330718

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	150	152	P/P	60 - 160
Sucralose	113	118	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A112595
Included Lab Sample IDs: 2330714, 2330715, 2330716, 2330718

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	90.1	93.9	P/P	60 - 160
Endothall	70.3	69.5	P/P	60 - 160
Glufosinate	102	101	P/P	60 - 160
Glyphosate	88.5	90.8	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A112618
Included Lab Sample IDs: 2330714, 2330715, 2330716, 2330718

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A112618
Included Lab Sample IDs: 2330714, 2330715, 2330716, 2330718

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	91.6	96.6	P/P	50 - 150
2,4-D	99.1	91.6	P/P	50 - 150
2,4,5-T	95.2	95.0	P/P	50 - 150
2,4,5-T	95.8	95.2	P/P	50 - 150
Acetaminophen	101	101	P/P	60 - 160
Acetaminophen	102	101	P/P	60 - 160
Acetamiprid	102	101	P/P	50 - 150
Acetamiprid	103	102	P/P	50 - 150
Afidopyropen	94.8	92.9	P/P	50 - 150
Afidopyropen	96.6	94.8	P/P	50 - 150
Bentazon	101	102	P/P	50 - 160
Bentazon	103	104	P/P	50 - 160
Bentazon	104	103	P/P	50 - 160
Benzovindiflupyr	107	106	P/P	50 - 150
Benzovindiflupyr	108	107	P/P	50 - 150
Carbamazepine	102	101	P/P	60 - 150
Carbamazepine	99.0	102	P/P	60 - 150
Clothianidin	103	103	P/P	60 - 150
Clothianidin	104	103	P/P	60 - 150
Dinotefuran	102	98.4	P/P	50 - 150
Dinotefuran	98.4	105	P/P	50 - 150
Diuron	105	109	P/P	60 - 160
Diuron	109	93.9	P/P	60 - 160
Fenuron	100	102	P/P	60 - 150
Fenuron	102	100	P/P	60 - 150
Fluridone	108	106	P/P	60 - 160
Fluridone	110	108	P/P	60 - 160
Hydrocodone	96.6	98.2	P/P	60 - 150
Hydrocodone	98.2	97.9	P/P	60 - 150
Ibuprofen	107	119	P/P	50 - 160
Ibuprofen	119	94.0	P/P	50 - 160
Imazapyr	86.7	96.4	P/P	50 - 150
Imazapyr	91.9	86.7	P/P	50 - 150
Imidacloprid	95.5	97.3	P/P	60 - 150
Imidacloprid	97.3	96.4	P/P	60 - 150
Linuron	101	114	P/P	60 - 150
Linuron	114	98.5	P/P	60 - 150
Mandestrobin	105	103	P/P	50 - 150
Mandestrobin	107	105	P/P	50 - 150
MCPP	93.6	93.6	P/P	50 - 150
MCPP	94.4	93.6	P/P	50 - 150
Naproxen	123	97.8	P/P	50 - 160
Naproxen	97.8	106	P/P	50 - 160
Primidone	101	103	P/P	60 - 150
Primidone	103	106	P/P	60 - 150
Pyraclostrobin	105	106	P/P	60 - 150
Pyraclostrobin	106	105	P/P	60 - 150
Silvex	93.9	98.0	P/P	50 - 150
Silvex	99.7	93.9	P/P	50 - 150
Thiamethoxam	101	98.5	P/P	50 - 150
Thiamethoxam	98.5	100	P/P	50 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A112618
Included Lab Sample IDs: 2330714, 2330715, 2330716, 2330718

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tolfenpyrad	96.9	101	P/P	60 - 150
Tolfenpyrad	97.8	96.9	P/P	60 - 150
Triclopyr	91.5	99.8	P/P	50 - 150
Triclopyr	99.8	89.8	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A112625
Included Lab Sample IDs: 2330700, 2330701

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.5	98.7	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A112633
Included Lab Sample IDs: 2330698, 2330699

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.5	97.3	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A112633
Included Lab Sample IDs: 2330698, 2330699

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.0	100	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A112644
Included Lab Sample IDs: 2330721, 2330722, 2330723

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	102	99.4	P/P	90 - 110
Calcium	98.9	102	P/P	90 - 110
Iron	101	104	P/P	90 - 110
Iron	104	102	P/P	90 - 110
Magnesium	101	103	P/P	90 - 110
Magnesium	103	101	P/P	90 - 110
Potassium	104	107	P/P	90 - 110
Potassium	107	104	P/P	90 - 110
Sodium	102	105	P/P	90 - 110
Sodium	105	104	P/P	90 - 110
Tin	101	101	P/P	90 - 110
Tin	98.8	101	P/P	90 - 110
Titanium	101	102	P/P	90 - 110
Titanium	102	102	P/P	90 - 110
Vanadium	101	102	P/P	90 - 110
Vanadium	102	101	P/P	90 - 110
Zinc	102	103	P/P	90 - 110
Zinc	103	103	P/P	90 - 110

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Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A112649
Included Lab Sample IDs: 2330721, 2330722, 2330723

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Iron	103	105	P/P	95 - 105
Strontium	101	104	P/P	90 - 110
Strontium	96.0	101	P/P	95 - 105

Reference Method: EPA 8270E
Run ID: A112657
Included Lab Sample IDs: 2330720

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	108		P	80 - 120
Alachlor	105		P	80 - 120
Ametryn	101		P	80 - 120
Atrazine	98.0		P	80 - 120
Atrazine Desethyl	88.9		P	80 - 120
Azinphos Methyl	91.4		P	80 - 120
Azoxystrobin	98.2		P	80 - 120
Bromacil	104		P	80 - 120
Butylate	99.2		P	80 - 120
Caffeine	96.1		P	80 - 120
Carbophenothion	101		P	80 - 120
Carfentrazone Ethyl	97.4		P	80 - 120
Chlorfenapyr	101		P	80 - 120
Chlorpyrifos Ethyl	99.2		P	80 - 120
Chlorpyrifos Methyl	101		P	80 - 120
Coumaphos	101		P	80 - 120
Cyanazine	104		P	80 - 120
Cyprodinil	102		P	80 - 120
Demeton	98.1		P	80 - 120
Diazinon	105		P	80 - 120
Difenoconazole	103		P	80 - 120
Dimethenamid	107		P	80 - 120
Dimethomorph	98.4		P	80 - 120
Disulfoton	97.5		P	80 - 120
Dithiopyr	105		P	80 - 120
EPTC	98.4		P	80 - 120
Ethion	105		P	80 - 120
Ethoprop	101		P	80 - 120
Etridiazole	99.3		P	80 - 120
Fenamiphos	106		P	80 - 120
Fenbuconazole	102		P	80 - 120
Fipronil	102		P	80 - 120
Fipronil Desulfinyl	98.0		P	80 - 120
Fipronil Sulfide	107		P	80 - 120
Fipronil Sulfone	102		P	80 - 120
Fluazifop-P-butyl	104		P	80 - 120
Fludioxonil	105		P	80 - 120
Flumioxazin	98.8		P	80 - 120
Flutolanil	102		P	80 - 120
Fluxapyroxad	106		P	80 - 120
Fonofos	101		P	80 - 120
Hexazinone	94.7		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A112657
Included Lab Sample IDs: 2330720

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Imazalil	106		P	80 - 120
Iprodione	102		P	80 - 120
Loratadine	103		P	80 - 120
Malathion	107		P	80 - 120
Metalaxyl	109		P	80 - 120
Metolachlor	108		P	80 - 120
Metribuzin	95.0		P	80 - 120
Mevinphos	86.7		P	80 - 120
Molinate	99.2		P	80 - 120
Myclobutanil	103		P	80 - 120
Naled	103		P	80 - 120
Napropamide	103		P	80 - 120
Norflurazon	105		P	80 - 120
Oxadiazon	101		P	80 - 120
Oxyfluorfen	95.6		P	80 - 120
Parathion Ethyl	97.3		P	80 - 120
Parathion Methyl	93.7		P	80 - 120
Pendimethalin	100		P	80 - 120
Phenytoin	104		P	80 - 120
Phorate	94.5		P	80 - 120
Prodiamine	105		P	80 - 120
Prometon	103		P	80 - 120
Prometryn	101		P	80 - 120
Pronamide	104		P	80 - 120
Propanil	92.8		P	80 - 120
Propargite	102		P	80 - 120
Propiconazole	110		P	80 - 120
Pyraflufen Ethyl	105		P	80 - 120
Pyridaben	98.5		P	80 - 120
Pyriproxyfen	101		P	80 - 120
Simazine	108		P	80 - 120
Stirophos	101		P	80 - 120
Sulfentrazone	104		P	80 - 120
Tebuconazole	100		P	80 - 120
Terbufos	103		P	80 - 120
Terbuthylazine	105		P	80 - 120
Thiobencarb	92.4		P	80 - 120
Triadimefon	102		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A112672
Included Lab Sample IDs: 2330700

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	106	103	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A112699
Included Lab Sample IDs: 2330719

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A112699
Included Lab Sample IDs: 2330719

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	97.5		P	80 - 120
Alpha-BHC	97.0		P	80 - 120
Alpha-Chlordane	98.9		P	80 - 120
Beta-BHC	106		P	80 - 120
Beta-Cyfluthrin	94.4		P	80 - 120
Bifenthrin	101		P	80 - 120
Chlorothalonil	103		P	80 - 120
Cis-Nonachlor	93.7		P	80 - 120
Cypermethrin	96.5		P	80 - 120
Dacthal	98.2		P	80 - 120
DDD-p,p'	98.7		P	80 - 120
DDE-p,p'	99.0		P	80 - 120
DDT-p,p'	100		P	80 - 120
Delta-BHC	104		P	80 - 120
Deltamethrin	84.0		P	80 - 120
Dichlobenil	105		P	80 - 120
Dicofol	107		P	80 - 120
Dieldrin	98.7		P	80 - 120
Endosulfan I	99.5		P	80 - 120
Endosulfan II	95.2		P	80 - 120
Endosulfan Sulfate	97.8		P	80 - 120
Endrin	98.8		P	80 - 120
Endrin Aldehyde	94.3		P	80 - 120
Endrin Ketone	92.9		P	80 - 120
Esfenvalerate	95.2		P	80 - 120
Ethalfluralin	96.9		P	80 - 120
Fenpropathrin	94.8		P	80 - 120
Gamma-BHC	97.2		P	80 - 120
Gamma-Chlordane	98.0		P	80 - 120
Heptachlor	97.7		P	80 - 120
Heptachlor Epoxide	96.3		P	80 - 120
Hexachlorobenzene	107		P	80 - 120
Kepone	109		P	80 - 120
Lambda-Cyhalothrin	96.4		P	80 - 120
Methoprene	98.8		P	80 - 120
Methoxychlor	100		P	80 - 120
MGK-264	96.9		P	80 - 120
Mirex	100		P	80 - 120
Oxychlordane	98.7		P	80 - 120
Permethrin	97.8		P	80 - 120
Phenothrin	97.4		P	80 - 120
Piperonyl Butoxide	90.1		P	80 - 120
Prallethrin	96.0		P	80 - 120
Tau-Fluvalinate	96.2		P	80 - 120
Tetramethrin	98.0		P	80 - 120
Trans-Nonachlor	101		P	80 - 120
Triclosan Methyl	98.8		P	80 - 120
Trifluralin	96.9		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A112707
Included Lab Sample IDs: 2330698, 2330699

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.7	99.5	P/P	90 - 110
Sulfate	100	99.9	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A112751
Included Lab Sample IDs: 2330700, 2330701

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	104	103	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A112754
Included Lab Sample IDs: 2330700

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.0	97.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A112761
Included Lab Sample IDs: 2330701

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.0	99.6	P/P	90 - 110

Reference Method: EPA 8276
Run ID: A112799
Included Lab Sample IDs: 2330719

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	104		P	80 - 120
Toxaphene	97.2		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A112817
Included Lab Sample IDs: 2330701

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	95.8	94.5	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)	98.9					4.88	
EPA 180.1 Rev. 2.0	Turbidity	97.4					2.89	
EPA 200.7 Rev. 4.4	Calcium	103	101	106				0.0219
	Iron	110	108	110	114			1.78
	Magnesium	111	104	106				2.31
	Potassium	104	106	112				1.34
	Sodium	107	104	110				0.124
	Strontium	96.9	95.7	97.0	104			1.25
	Tin	98.9	104	105	107			1.14
	Titanium	104	106	104	110			1.80
	Vanadium	95.8	101	102	103			1.54
	Zinc	104	103	104	110			0.588
EPA 200.8 Rev. 5.4	Aluminum	97.2	101	99.4	96.1			1.83
	Antimony	97.9	102	101	100			1.18
	Arsenic	98.4	101	99.0	99.5			1.86
	Barium	103	103	102	103			1.09
	Beryllium	94.0	99.7	95.8	98.5			3.96
	Boron	98.2	104	103	100			0.790
	Cadmium	96.7	102	97.1	99.8			4.47
	Chromium	95.6	98.8	97.7	98.3			1.04
	Cobalt	98.7	101	99.0	98.9			1.65
	Copper	96.1	95.6	95.5	96.4			0.121
	Lead	96.9	101	99.8	99.4			0.931
	Manganese	96.8	103	99.8	101			1.74
	Molybdenum	97.0	103	100	99.2			2.69
	Nickel	96.7	99.2	98.3	97.7			0.931
	Selenium	97.4	98.0	96.6	96.2			1.45
	Silver	101	102	98.4	98.9			3.96
	Thallium	97.0	103	102	100			0.466
EPA 300.0 Rev. 2.1	Chloride	98.7	96.5	95.2			0.292	
	Sulfate	97.4	92.8	96.2			0.316	
EPA 350.1 Rev. 2.0	Ammonia-N	97.4	96.4	97.0				0.562
	Ammonia-N	98.8	97.0	96.0				0.898
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	107						0.584
	Kjeldahl Nitrogen	95.9	98.0	103				3.46
EPA 353.2 Rev. 2.0	NO2NO3-N	102	102	102				0.0
EPA 365.1 Rev. 2.0	Total-P	103	104	104				0.0219
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.2	98.4	99.7				1.31
EPA 8270E	Acetochlor	103	85.4	84.2				1.39
	Alachlor	90.0	74.0	72.5				1.99
	Aldrin	62.4	59.8	61.3				2.38
	Alpha-BHC	100	93.8	94.8				1.16
	Alpha-Chlordane	82.7	64.0	61.0				3.85
	Ametryn	108						7.41
	Atrazine	106						23.8
	Atrazine Desethyl	116						8.48
	Azinphos Methyl	107	76.8	84.9				10.1
	Azoxystrobin	115	187	169				9.80
	Beta-BHC	111	90.6	84.3				7.25
	Beta-Cyfluthrin	72.9	79.6	77.2				3.02
	Bifenthrin	61.3	63.3	66.0				4.29
	Bromacil	87.2	74.5	69.2				7.37
	Butylate	63.1	39.2	28.8				30.7
	Caffeine	69.8	106	96.7				8.94

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Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Carbophenothion	89.7	67.2	66.9			0.341
	Carfentrazone Ethyl	110	79.9	78.5			1.78
	Chlorfenapyr	85.4	69.7	61.4			12.8
	Chlorothalonil	74.9	72.6	79.2			8.76
	Chlorpyrifos Ethyl	83.1	84.1	83.4			0.818
	Chlorpyrifos Methyl	94.6	81.0	80.6			0.538
	Cis-Nonachlor	73.4	71.9	65.4			9.45
	Coumaphos	93.6	62.3	68.0			8.75
	Cyanazine	103	86.0	86.2			0.162
	Cypermethrin	77.3	82.2	78.8			4.21
	Cyprodinil	99.9	83.4	84.3			1.09
	Dacthal	98.5	92.0	86.5			6.13
	DDD-p,p'	80.2	59.2	53.6			7.85
	DDE-p,p'	80.1	59.2	53.6			7.62
	DDT-p,p'	78.6	68.3	68.5			0.190
	Delta-BHC	119	94.7	89.1			6.13
	Deltamethrin	80.8	86.5	84.1			2.80
	Demeton	78.5	69.2	72.1			4.13
	Diazinon	96.2	90.3	86.8			3.87
	Dichlobenil	89.5	75.4	64.6			15.4
	Dicofol	109	136	125			8.14
	Dieldrin	86.6	68.3	62.0			8.29
	Difenoconazole	127	89.1	103			14.9
	Dimethenamid	82.8	66.6	69.1			3.71
	Dimethomorph	107	171	121			34.4
	Disulfoton	87.1	82.9	77.2			7.08
	Dithiopyr	86.3	68.1	67.4			0.963
	Endosulfan I	88.4	77.1	71.7			6.85
	Endosulfan II	92.5	86.8	75.6			13.9
	Endosulfan Sulfate	102	90.0	80.8			10.8
	Endrin	85.1	75.6	69.6			7.80
	Endrin Aldehyde	75.3	84.5	71.6			16.4
	Endrin Ketone	84.5	88.2	75.9			15.0
	EPTC	59.6	30.6	25.4			18.7
	Esfenvalerate	77.3	80.7	83.5			3.39
	Ethalfluralin	83.4	82.2	80.9			1.53
	Ethion	77.2	42.6	63.8			39.7
	Ethoprop	86.1	90.9	89.3			1.82
	Etridiazole	63.6	42.5	35.4			18.3
	Fenamiphos	87.0	62.4	85.8			31.5
	Fenbuconazole	95.3	71.4	71.9			0.708
	Fenpropathrin	72.9	76.6	69.7			9.47
	Fipronil	105	83.0	82.3			0.723
	Fipronil Desulfinyl	106					1.75
	Fipronil Sulfide	93.4	89.7	87.1			1.72
	Fipronil Sulfone	82.8	68.8	61.8			3.05
	Fluazifop-P-butyl	104	79.3	79.9			0.803
	Fludioxonil	93.9	75.4	72.6			3.71
	Flumioxazin	147	111	122			9.85
	Flutolanil	102	74.8	78.4			4.11
	Fluxapyroxad	88.7	57.1	66.0			12.0
	Fonofos	86.2	88.5	85.0			4.12
	Gamma-BHC	107	97.2	98.0			0.809
	Gamma-Chlordane	79.4	58.7	55.8			3.96

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Heptachlor	74.3	71.1	71.9			1.15
	Heptachlor Epoxide	68.3	78.4	68.2			14.0
	Hexachlorobenzene	78.4	66.0	61.3			7.28
	Hexazinone	93.3	88.1	87.6			0.562
	Imazalil	84.3	195	168			14.6
	Iprodione	93.8	78.2	75.0			4.17
	Kepone	151	212	175			19.1
	Lambda-Cyhalothrin	69.6	70.8	73.1			3.22
	Loratadine	104	168	118			34.9
	Malathion	82.3	72.2	71.1			1.45
	Metalaxyl	87.5	81.4	68.0			17.9
	Methoprene	61.1	62.9	59.8			5.03
	Methoxychlor	90.2	90.1	89.7			0.504
	Metolachlor	84.7	62.3	66.7			4.85
	Metribuzin	89.2	94.4	76.2			21.3
	Mevinphos	78.7	77.1	77.2			0.131
	MGK-264	88.1	87.8	80.7			8.39
	Mirex	66.5	63.4	62.0			2.20
	Molinate	69.6	54.2	49.4			9.35
	Myclobutanil	91.2	75.5	78.1			2.00
	Naled	82.9	71.4	72.2			1.11
	Napropamide	85.2	60.2	64.3			6.59
	Norflurazon	86.5	64.7	60.0			7.58
	Oxadiazon	77.8					16.7
	Oxychlordane	79.8	74.3	73.8			0.673
	Oxyfluorfen	113	93.0	96.1			3.30
	Parathion Ethyl	88.2	81.6	82.2			0.753
	Parathion Methyl	118	119	119			0.0758
	Pendimethalin	101	99.6	102			2.47
	Permethrin	72.2	77.3	74.1			4.15
	Phenothrin	54.3	63.2	60.0			5.17
	Phenytoin	41.8	27.7	31.5			12.6
	Phorate	76.6	70.6	75.1			6.14
	Piperonyl Butoxide	116	114	105			8.25
	Prallethrin	80.2	81.9	72.5			12.1
	Prodiamine	39.7	39.1	43.3			10.2
	Prometon	71.2	71.4	66.5			7.10
	Prometryn	99.6	85.5	82.1			4.08
	Pronamide	104	86.1	86.0			0.0203
	Propanil	138	122	116			5.34
	Propargite	74.0	45.5	47.8			4.94
	Propiconazole	98.6	91.9	88.3			2.08
	Pyraflufen Ethyl	93.9	71.5	66.7			6.94
	Pyridaben	93.6	97.2	80.7			18.6
	Pyriproxyfen	96.5	57.9	67.9			15.9
	Simazine	101	93.9	61.7			4.45
	Stirophos	71.5	43.6	53.6			20.6
	Sulfentrazone	91.6					2.24
	Tau-Fluvalinate	68.5	71.4	77.0			7.58
	Tebuconazole	60.7	37.7	52.4			23.7
	Terbufos	98.6	101	98.9			2.37
	Terbuthylazine	91.3	80.7	82.6			2.35
	Tetramethrin	106	117	101			14.6
	Thiobencarb	82.2	67.8	55.0			20.9

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Trans-Nonachlor	76.3	75.2	71.7			4.78
	Triadimefon	83.8	71.6	74.8			4.32
	Triclosan Methyl	85.9	81.8	73.7			10.5
	Trifluralin	78.6	77.2	75.9			1.70
EPA 8276	Chlordane	106					
	Toxaphene	105					
EPA 8321B	2,4-D	68.6	101	81.9			20.2
	2,4,5-T	48.5	77.2	65.9			15.7
	3-Hydroxycarbofuran	95.5	106	112			5.71
	Acesulfame K	147	155	150			3.00
	Acetaminophen	69.3	113	114			1.05
	Acetamiprid	79.5	101	85.8			13.0
	Afidopyropen	56.6	71.1	60.9			15.5
	Aldicarb	84.3	85.4	90.4			5.76
	Aldicarb Sulfone	99.9	109	115			5.61
	Aldicarb Sulfoxide	97.2	50.5	52.8			4.56
	AMPA	91.4	88.2	91.4			3.52
	Bentazon	93.3					
	Benzovindiflupyr	87.8					0.121
	Carbamazepine	94.8	113	109			3.54
	Carbaryl	76.9	71.5	76.9			7.22
	Carbofuran	88.5	81.5	91.7			11.8
	Clothianidin	100	127	120			4.69
	Dinotefuran	101					0.943
	Diuron	95.4	86.5	76.0			12.6
	Endothall	70.4	69.3	69.0			0.443
	Fenuron	103	93.9	92.5			1.51
	Fluridone	95.1	92.7	89.7			3.33
	Glufosinate	98.8	95.1	99.5			4.50
	Glyphosate	94.7	94.9	83.6			12.6
	Hydrocodone	87.0	107	101			5.99
	Ibuprofen	85.3	85.6	84.4			1.42
	Imazapyr	90.0	106	107			0.641
	Imidacloprid	91.1	159	157			0.881
	Linuron	84.7	85.4	79.3			7.41
	Mandestrobin	91.1	90.9	87.2			4.14
	MCPP	77.7	111	101			9.52
	Methiocarb	70.2	68.2	74.5			8.86
	Methomyl	93.7	86.7	93.3			7.37
	Naproxen	70.8	76.1	72.8			4.36
	Oxamyl	100	99.1	104			4.78
	Primidone	98.9	112	118			4.51
	Propoxur	91.8	86.9	92.3			6.06
	Pyraclostrobin	83.9	96.0	91.1			4.39
	Silvex	48.9	73.5	58.2			23.2
	Sucralose	110	114	114			0.0355
	Thiamethoxam	93.9	136	138			0.714
	Tolfenpyrad	44.7	53.7	49.9			7.25
	Triclopyr	56.1	81.3	69.5			15.6
SM 2320 B-2011	Total Alkalinity	98.3				0.629	
SM 2540 C-2011	TDS					2.14	
SM 4500-F- C-2011	Fluoride	98.4	98.1	98.7			0.489
SM 5310 B-2011	Organic Carbon	95.2	93.4	92.4			0.862

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2330698, 2330699
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2330698, 2330699
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2330721, 2330722, 2330723
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2330721, 2330722, 2330723
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2330698, 2330699
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2330698, 2330699
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2330700, 2330701
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2330700, 2330701
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2330700, 2330701
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2330700, 2330701
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2330702, 2330703
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2330719
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2330720
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2330719
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2330717
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2330714, 2330715, 2330716, 2330718
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2330698, 2330699
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2330721, 2330722, 2330723
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2330698, 2330699
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2330698, 2330699
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2330698, 2330699
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2330700, 2330701

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	05/31/2022			06/01/2022 14:37	Samantha L Bates	2330698
	05/31/2022			06/01/2022 14:38	Samantha L Bates	2330699
EPA 180.1 Rev. 2.0	05/31/2022			06/01/2022 13:41	Khloe J Berg	2330699
	05/31/2022			06/01/2022 13:42	Khloe J Berg	2330698
EPA 200.7 Rev. 4.4	05/31/2022	06/01/2022 10:05	Megan Whitefoot	06/06/2022 23:46	McKinley C Carter	2330721
	05/31/2022	06/01/2022 10:05	Megan Whitefoot	06/07/2022 00:17	McKinley C Carter	2330722
	05/31/2022	06/01/2022 10:05	Megan Whitefoot	06/07/2022 00:45	McKinley C Carter	2330723
	05/31/2022	06/01/2022 10:05	Megan Whitefoot	06/07/2022 14:52	McKinley C Carter	2330721
	05/31/2022	06/01/2022 10:05	Megan Whitefoot	06/07/2022 14:54	McKinley C Carter	2330722
	05/31/2022	06/01/2022 10:05	Megan Whitefoot	06/07/2022 15:18	McKinley C Carter	2330723
EPA 200.8 Rev. 5.4	05/31/2022	06/01/2022 10:05	Megan Whitefoot	06/01/2022 21:03	Alexander Thompson	2330722
	05/31/2022	06/01/2022 10:05	Megan Whitefoot	06/01/2022 22:40	Alexander Thompson	2330721
	05/31/2022	06/01/2022 10:05	Megan Whitefoot	06/01/2022 22:49	Alexander Thompson	2330723
EPA 300.0 Rev. 2.1	05/31/2022			06/08/2022 14:17	Anna M. Plaviak	2330698
	05/31/2022			06/08/2022 14:30	Anna M. Plaviak	2330699
EPA 350.1 Rev. 2.0	05/31/2022			06/10/2022 15:39	Ping Hua	2330700
	05/31/2022			06/14/2022 11:32	Judith K. Clark	2330701
EPA 351.2 Rev. 2.0	05/31/2022	06/07/2022 09:42	Samantha L Bates	06/08/2022 11:57	Alexandra J Mattheus	2330700
	05/31/2022	06/09/2022 16:19	Samantha L Bates	06/10/2022 15:59	Alexandra J Mattheus	2330701
EPA 353.2 Rev. 2.0	05/31/2022			06/10/2022 17:55	Nathaniel J Jones	2330701
	05/31/2022			06/10/2022 17:56	Nathaniel J Jones	2330700
EPA 365.1 Rev. 2.0	05/31/2022	06/03/2022 15:50	Adam P Silver	06/06/2022 11:07	Sarah A Nixon	2330700
	05/31/2022	06/03/2022 15:50	Adam P Silver	06/06/2022 11:08	Sarah A Nixon	2330701
EPA 365.1 Rev. 2.0 dissolved	05/31/2022			06/01/2022 13:57	James L Waggerby	2330702
	05/31/2022			06/01/2022 14:00	James L Waggerby	2330703
EPA 8270E	05/31/2022	06/01/2022 08:00	Rasheda Ghaffari	06/06/2022 17:36	Vandana T. Nagar	2330720
	05/31/2022	06/03/2022 08:00	Rasheda Ghaffari	06/08/2022 20:18	Michael Poppell	2330719
EPA 8276	05/31/2022	06/03/2022 08:00	Rasheda Ghaffari	06/09/2022 04:11	Julie Wi	2330719
EPA 8321B	05/31/2022	05/31/2022 15:00	Hoor Shaik	06/01/2022 15:33	Juyoung Kim	2330717
	05/31/2022	06/02/2022 10:30	June Rhew	06/04/2022 04:35	Juyoung Kim	2330715
	05/31/2022	06/02/2022 10:30	June Rhew	06/04/2022 05:10	Juyoung Kim	2330714
	05/31/2022	06/02/2022 10:30	June Rhew	06/04/2022 05:44	Juyoung Kim	2330716
	05/31/2022	06/02/2022 10:30	June Rhew	06/04/2022 06:54	Juyoung Kim	2330718
	05/31/2022	06/02/2022 10:30	June Rhew	06/04/2022 15:01	Juyoung Kim	2330715
	05/31/2022	06/02/2022 10:30	June Rhew	06/04/2022 15:36	Juyoung Kim	2330716
	05/31/2022	06/02/2022 14:00	Umesh Chiluwal	06/02/2022 17:56	Umesh Chiluwal	2330714
	05/31/2022	06/02/2022 14:00	Umesh Chiluwal	06/02/2022 18:11	Umesh Chiluwal	2330715
	05/31/2022	06/02/2022 14:00	Umesh Chiluwal	06/02/2022 18:26	Umesh Chiluwal	2330716
	05/31/2022	06/02/2022 14:00	Umesh Chiluwal	06/02/2022 18:41	Umesh Chiluwal	2330718
	05/31/2022	06/02/2022 14:00	Umesh Chiluwal	06/03/2022 02:45	Umesh Chiluwal	2330714

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	05/31/2022	06/02/2022 14:00	Umesh Chiluwal	06/03/2022 02:58	Umesh Chiluwal	2330715
	05/31/2022	06/02/2022 14:00	Umesh Chiluwal	06/03/2022 03:11	Umesh Chiluwal	2330716
	05/31/2022	06/02/2022 14:00	Umesh Chiluwal	06/03/2022 03:24	Umesh Chiluwal	2330718
SM 2320 B-2011	05/31/2022			06/03/2022 06:31	Dale L. Simmons	2330698
	05/31/2022			06/03/2022 06:43	Dale L. Simmons	2330699
SM 2340 B-2011	05/31/2022			06/06/2022 23:46	McKinley C Carter	2330721
	05/31/2022			06/07/2022 00:17	McKinley C Carter	2330722
	05/31/2022			06/07/2022 00:45	McKinley C Carter	2330723
SM 2540 C-2011	05/31/2022			06/03/2022 14:44	Ping Hua	2330698, 2330699
SM 2540 D-2011	05/31/2022			06/03/2022 14:44	Ping Hua	2330698, 2330699
SM 4500-F- C-2011	05/31/2022			06/03/2022 06:31	Dale L. Simmons	2330698
	05/31/2022			06/03/2022 06:43	Dale L. Simmons	2330699
SM 5310 B-2011	05/31/2022			06/03/2022 03:00	Judith K. Clark	2330700
	05/31/2022			06/03/2022 03:14	Judith K. Clark	2330701