Chemical Analysis Report

SW-DIST-2022-05-12-01

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

Event Description: **LVIs x2**
Request ID: **RQ-2022-05-09-38**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
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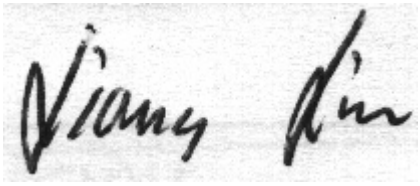
Certified by: Liang Lin, Environmental Administrator

Date Certified: 07-JUN-2022 14:52



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: Lake Bonny @ Center **Collection Date/Time: 05/11/2022 15:45**

Field ID: G3SW0077 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2326621	DEP SOP: NU-094-1	Color (true)**	34		PCU	P413772	
	EPA 180.1 Rev. 2.0	Turbidity	15		NTU	P413777	
	EPA 300.0 Rev. 2.1	Chloride	11		mg Cl/L	P414105	
		Sulfate	1.4		mg SO4/L	P414109	
	SM 2320 B-2011	Total Alkalinity	45		mg CaCO3/L	P414066	
	SM 2540 C-2011	TDS	86	A	mg/L	P414432	
	SM 2540 D-2011	TSS	14	I A	mg/L	P414429	
	SM 4500-F- C-2011	Fluoride	0.22		mg F/L	P414069	MS
2326623	EPA 350.1 Rev. 2.0	Ammonia-N	0.009		mg N/L	P414160	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	3.0		mg N/L	P414077	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P413932	
	EPA 365.1 Rev. 2.0	Total-P	0.083		mg P/L	P413996	
	SM 5310 B-2011	Organic Carbon	15		mg C/L	P413969	
2326625	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P413768	
2326635	EPA 8321B	Aldicarb	0.020	U	ug/L	P413774	
		Aldicarb Sulfone	0.0020	U	ug/L	P413774	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P413774	
		Carbaryl	0.0020	U	ug/L	P413774	
		Carbofuran	0.0020	U	ug/L	P413774	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P413774	
		Methiocarb	0.0020	U	ug/L	P413774	
		Methomyl	0.0020	U	ug/L	P413774	
		Oxamyl	0.0020	U	ug/L	P413774	
		Propoxur	0.0020	U	ug/L	P413774	
2326637		2,4-D	0.040		ug/L	P413908	
		Acesulfame K	0.11	I J	ug/L	P413829	SUR
		AMPA	0.10	U	ug/L	P413829	
		2,4,5-T	0.0040	U	ug/L	P413908	
		Acetaminophen	0.0080	U	ug/L	P413908	
		Acetamiprid	0.0020	U	ug/L	P413908	
		Endothall	0.25	UJ	ug/L	P413829	MS, SUR
		Glufosinate	0.10	U	ug/L	P413829	
		Glyphosate	0.10	U	ug/L	P413829	
		Afidopyropen	0.0020	U	ug/L	P413908	
		Sucralose	0.39		ug/L	P413829	
		Bentazon	0.0068		ug/L	P413908	
		Benzovindiflupyr	0.0020	U	ug/L	P413908	
		Carbamazepine	8.0E-04	U	ug/L	P413908	
		Clothianidin	0.0020	U	ug/L	P413908	
		Dinotefuran	0.0020	U	ug/L	P413908	
		Diuron	0.0020	U	ug/L	P413908	
		Fenuron	0.032	U	ug/L	P413908	
		Fluridone	0.011		ug/L	P413908	

Field ID: G3SW0077 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2326637	EPA 8321B	Imazapyr	0.031		ug/L	P413908	
		Hydrocodone	0.0020	U	ug/L	P413908	
		Ibuprofen	0.020	U	ug/L	P413908	
		Imidacloprid	0.0020	U	ug/L	P413908	
		Linuron	0.0040	U	ug/L	P413908	
		Mandestrobin	0.0020	U	ug/L	P413908	
		MCPP	0.0040	U	ug/L	P413908	
		Naproxen	0.0080	U	ug/L	P413908	
		Primidone	0.0040	U	ug/L	P413908	
		Pyraclostrobin	0.0020	U	ug/L	P413908	
		Silvex	0.0040	U	ug/L	P413908	
		Thiamethoxam	0.0020	U	ug/L	P413908	
		Tolfenpyrad	0.0020	U	ug/L	P413908	
		Triclopyr	0.0040	U	ug/L	P413908	
2326642	EPA 8270E	Aldrin	0.67	U	ng/L	P413841	
		Alpha-BHC	0.20	I	ng/L	P413841	
		Alpha-Chlordane	0.21	U	ng/L	P413841	
		PCB-1016	2.1	U	ng/L	P413841	
		Beta-BHC	0.10	U	ng/L	P413841	
		PCB-1221	2.1	U	ng/L	P413841	
		Beta-Cyfluthrin**	1.3	U	ng/L	P413841	MS
		PCB-1232	2.1	U	ng/L	P413841	
		Bifenthrin**	0.52	U	ng/L	P413841	
		PCB-1242	2.1	U	ng/L	P413841	
		PCB-1248	2.1	U	ng/L	P413841	
		Chlorothalonil	1.3	U	ng/L	P413841	
		PCB-1254	2.1	U	ng/L	P413841	
		Cis-Nonachlor**	0.21	U	ng/L	P413841	
		PCB-1260	2.1	U	ng/L	P413841	
		Cypermethrin	1.6	U	ng/L	P413841	
		Dacthal**	0.16	U	ng/L	P413841	
		DDD-p,p'	0.26	U	ng/L	P413841	
		DDE-p,p'	0.21	U	ng/L	P413841	
		DDT-p,p'	0.26	U	ng/L	P413841	
		Delta-BHC	0.41	U	ng/L	P413841	
		Deltamethrin**	1.3	U	ng/L	P413841	
		Dichlobenil**	0.26	U	ng/L	P413841	
		Dicofol	1.3	U	ng/L	P413841	
		Dieldrin	0.41	U	ng/L	P413841	
		Endosulfan I	0.41	U	ng/L	P413841	
		Endosulfan II	0.41	U	ng/L	P413841	
		Endosulfan Sulfate	0.31	U	ng/L	P413841	
		Endrin	0.41	U	ng/L	P413841	
		Endrin Aldehyde	0.78	U	ng/L	P413841	
		Endrin Ketone	0.41	U	ng/L	P413841	

Field ID: G3SW0077 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2326642	EPA 8270E	Esfenvalerate**	0.78	U	ng/L	P413841	
		Ethalfluralin**	0.16	U	ng/L	P413841	
		Fenpropathrin**	0.26	U	ng/L	P413841	
		Gamma-BHC	0.13	U	ng/L	P413841	
		Gamma-Chlordane	0.21	U	ng/L	P413841	
		Heptachlor	0.21	U	ng/L	P413841	
		Heptachlor Epoxide	0.26	U	ng/L	P413841	
		Hexachlorobenzene**	1.0	U	ng/L	P413841	
		Kepone**	5.2	U	ng/L	P413841	
		Lambda-Cyhalothrin**	0.78	U	ng/L	P413841	
		Methoprene**	0.78	U	ng/L	P413841	
		Methoxychlor	0.31	U	ng/L	P413841	
		MGK-264**	0.21	U	ng/L	P413841	
		Mirex	0.72	U	ng/L	P413841	
		Oxychlordane**	0.31	U	ng/L	P413841	MS
		Permethrin	1.7	U	ng/L	P413841	
		Phenothrin**	0.93	U	ng/L	P413841	
		Piperonyl Butoxide**	0.16	U	ng/L	P413841	
		Prallethrin**	2.1	U	ng/L	P413841	
		Tau-Fluvalinate**	0.26	U	ng/L	P413841	
		Tetramethrin**	0.78	U	ng/L	P413841	
		Trans-Nonachlor**	0.21	U	ng/L	P413841	
		Triclosan Methyl**	0.16	U	ng/L	P413841	
		Trifluralin	0.21	U	ng/L	P413841	
	EPA 8276	Chlordane	2.6	U	ng/L	P413841	
		Toxaphene	16	U	ng/L	P413841	
2326644	EPA 8270E	Oxybenzone**	1.6E+03		ng/L	P413852	
		Acetochlor	0.26	U	ng/L	P413852	
		Octinoxate**	21	U	ng/L	P413852	
		Alachlor	0.26	U	ng/L	P413852	
		Avobenzone**	100	U	ng/L	P413852	
		Ametryn	0.63	U	ng/L	P413852	
		Atrazine	9.2		ng/L	P413852	
		Atrazine Desethyl	8.8		ng/L	P413852	
		Azinphos Methyl	2.1	U	ng/L	P413852	
		Azoxystrobin**	0.52	U	ng/L	P413852	
		Bromacil	0.52	U	ng/L	P413852	
		Butylate	0.42	U	ng/L	P413852	
		Caffeine**	180		ng/L	P413852	
		Carbophenothion	0.21	U	ng/L	P413852	
		Carfentrazone Ethyl**	0.10	U	ng/L	P413852	
		Chlorfenapyr**	0.18	U	ng/L	P413852	
		Chlorpyrifos Ethyl	0.26	U	ng/L	P413852	
		Chlorpyrifos Methyl	0.052	U	ng/L	P413852	
		Coumaphos**	0.52	U	ng/L	P413852	

Field ID: G3SW0077 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2326644	EPA 8270E	Cyanazine	3.4	U	ng/L	P413852	
		Cyprodinil**	0.10	U	ng/L	P413852	
		Demeton	1.6	U	ng/L	P413852	
		Diazinon	0.13	U	ng/L	P413852	
		Difenoconazole**	0.63	U	ng/L	P413852	
		Dimethenamid**	0.10	U	ng/L	P413852	
		Dimethomorph**	0.18	U	ng/L	P413852	
		Disulfoton	0.52	U	ng/L	P413852	
		Dithiopyr**	0.18	U	ng/L	P413852	
		EPTC	1.3	U	ng/L	P413852	
		Ethion	0.16	U	ng/L	P413852	
		Ethoprop	0.10	U	ng/L	P413852	
		Etridiazole**	0.16	U	ng/L	P413852	
		Fenamiphos	0.52	U	ng/L	P413852	
		Fenbuconazole**	0.13	U	ng/L	P413852	
		Fipronil	0.26	U	ng/L	P413852	
		Fipronil Desulfinyl**	0.16	I	ng/L	P413852	
		Fipronil Sulfide	0.16	U	ng/L	P413852	
		Fipronil Sulfone	0.16	U	ng/L	P413852	
		Fluazifop-P-butyl**	0.10	U	ng/L	P413852	
		Fludioxonil**	0.13	U	ng/L	P413852	MS
		Flumioxazin**	1.8	U	ng/L	P413852	
		Flutolanil**	0.10	U	ng/L	P413852	
		Fluxapyroxad**	0.13	I	ng/L	P413852	
		Fonofos	0.21	U	ng/L	P413852	
		Hexazinone	0.53	I	ng/L	P413852	
		Imazalil**	0.78	U	ng/L	P413852	
		Iprodione**	0.63	U	ng/L	P413852	
		Loratadine**	0.10	U	ng/L	P413852	
		Malathion	0.36	U	ng/L	P413852	
		Metalaxyl	0.78	U	ng/L	P413852	
		Metolachlor	0.37	I	ng/L	P413852	
		Metribuzin	2.6	U	ng/L	P413852	
		Mevinphos	1.1	U	ng/L	P413852	
		Molinate	0.31	U	ng/L	P413852	
		Myclobutanil**	0.26	U	ng/L	P413852	
		Naled**	1.6	U	ng/L	P413852	
		Napropamide**	0.42	U	ng/L	P413852	
		Norflurazon	0.52	U	ng/L	P413852	
		Oxadiazon	0.31	U	ng/L	P413852	
		Oxyfluorfen**	0.16	U	ng/L	P413852	
		Parathion Ethyl	0.26	U	ng/L	P413852	
		Parathion Methyl	0.57	U	ng/L	P413852	
		Pendimethalin	1.0	U	ng/L	P413852	
		Phenytoin**	3.6	U	ng/L	P413852	

Field ID: G3SW0077 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2326644	EPA 8270E	Phorate	0.55	U	ng/L	P413852	
		Prodiamine**	0.18	U	ng/L	P413852	
		Prometon	0.94	U	ng/L	P413852	
		Prometryn	0.21	U	ng/L	P413852	
		Pronamide**	0.16	U	ng/L	P413852	
		Propanil**	0.13	U	ng/L	P413852	
		Propargite**	1.6	U	ng/L	P413852	
		Propiconazole**	1.3	I	ng/L	P413852	
		Pyraflufen Ethyl**	0.26	U	ng/L	P413852	
		Pyridaben**	0.47	U	ng/L	P413852	
		Pyriproxyfen**	0.13	U	ng/L	P413852	
		Simazine	0.52	U	ng/L	P413852	
		Stirophos**	0.13	U	ng/L	P413852	
		Sulfentrazone**	0.52	U	ng/L	P413852	
		Tebuconazole**	1.5	I	ng/L	P413852	
		Terbufos	0.10	U	ng/L	P413852	
		Terbuthylazine	0.44	U	ng/L	P413852	
		Thiobencarb**	0.63	U	ng/L	P413852	
		Triadimefon**	0.26	U	ng/L	P413852	
2326698	EPA 200.7 Rev. 4.4	Calcium	19.1		mg/L	P413842	
		Iron	30	U	ug/L	P413842	
		Magnesium	2.27		mg/L	P413842	
		Potassium	1.2		mg/L	P413842	
		Sodium	6.8		mg/L	P413842	
		Strontium	39.2		ug/L	P413842	
		Tin	3.0	U	ug/L	P413842	
		Titanium	0.85	I	ug/L	P413842	
		Vanadium	2.0	U	ug/L	P413842	
		Zinc	5.0	U	ug/L	P413842	
	EPA 200.8 Rev. 5.4	Aluminum	58		ug/L	P413842	
		Antimony	0.12	I	ug/L	P413842	
		Arsenic	0.76		ug/L	P413842	
		Barium	10.8		ug/L	P413842	
		Beryllium	0.010	U	ug/L	P413842	
		Boron**	35.3		ug/L	P413842	
		Cadmium	0.020	U	ug/L	P413842	
		Chromium	0.40	U	ug/L	P413842	
		Cobalt	0.034	I	ug/L	P413842	
		Copper	0.70	I	ug/L	P413842	
		Lead	0.32	I	ug/L	P413842	
		Manganese	13.2		ug/L	P413842	
		Molybdenum	0.38	I	ug/L	P413842	
		Nickel	0.50	U	ug/L	P413842	
		Selenium	0.20	U	ug/L	P413842	
		Silver	0.010	U	ug/L	P413842	

Field ID: G3SW0077 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2326698	EPA 200.8 Rev. 5.4	Thallium	0.10	U	ug/L	P413842	
	SM 2340 B-2011	Hardness	57.0		mg/L	P413842	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. The PQL was elevated because of sample matrix interference.
EPA 8321B: Results confirmed in re-extraction. Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for multiple parameters not assessed due to high content of these parameters in the sample spiked.
EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked.

Sample Location: Lake Parker @ Center **Collection Date/Time: 05/11/2022 13:30**

Field ID: G3SW0116 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2326622	DEP SOP: NU-094-1	Color (true)**	15		PCU	P413772	
	EPA 180.1 Rev. 2.0	Turbidity	9.5		NTU	P413777	
	EPA 300.0 Rev. 2.1	Chloride	17		mg Cl/L	P414105	
		Sulfate	4.1		mg SO4/L	P414109	
	SM 2320 B-2011	Total Alkalinity	68		mg CaCO3/L	P414066	
	SM 2540 C-2011	TDS	122		mg/L	P414397	
	SM 2540 D-2011	TSS	10	I	mg/L	P414312	
	SM 4500-F- C-2011	Fluoride	0.28		mg F/L	P414069	MS
2326624	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P414160	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.8		mg N/L	P414146	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P414227	
	EPA 365.1 Rev. 2.0	Total-P	0.056		mg P/L	P413996	
	SM 5310 B-2011	Organic Carbon	11		mg C/L	P413969	
2326626	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P413768	
2326636	EPA 8321B	Aldicarb	0.020	U	ug/L	P413774	
		Aldicarb Sulfone	0.0020	U	ug/L	P413774	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P413774	
		Carbaryl	0.0020	U	ug/L	P413774	
		Carbofuran	0.0020	U	ug/L	P413774	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P413774	
		Methiocarb	0.0020	U	ug/L	P413774	
		Methomyl	0.0020	U	ug/L	P413774	
		Oxamyl	0.0020	U	ug/L	P413774	
		Propoxur	0.0020	U	ug/L	P413774	
2326638		Acesulfame K	0.10	U	ug/L	P413829	
		2,4-D	0.0064	I	ug/L	P413908	
		AMPA	0.10	U	ug/L	P413829	
		2,4,5-T	0.0040	U	ug/L	P413908	
		Acetaminophen	0.0080	U	ug/L	P413908	
		Acetamiprid	0.0020	U	ug/L	P413908	
		Endothall	2.5	U	ug/L	P413829	MS
		Glufosinate	0.10	U	ug/L	P413829	
		Glyphosate	0.10	U	ug/L	P413829	
		Afidopyropen	0.0020	U	ug/L	P413908	
		Sucralose	0.17		ug/L	P413829	
		Bentazon	0.0029	I	ug/L	P413908	
		Benzovindiflupyr	0.0020	U	ug/L	P413908	
		Carbamazepine	8.0E-04	U	ug/L	P413908	
		Clothianidin	0.0020	U	ug/L	P413908	
		Dinotefuran	0.0020	U	ug/L	P413908	
		Diuron	0.0020	U	ug/L	P413908	
		Fenuron	0.032	U	ug/L	P413908	
		Fluridone	0.0057		ug/L	P413908	

Field ID: G3SW0116 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2326638	EPA 8321B	Imazapyr	0.011	I	ug/L	P413908	
		Hydrocodone	0.0020	U	ug/L	P413908	
		Ibuprofen	0.020	U	ug/L	P413908	
		Imidacloprid	0.0020	U	ug/L	P413908	
		Linuron	0.0040	U	ug/L	P413908	
		Mandestrobin	0.0020	U	ug/L	P413908	
		MCPP	0.0040	U	ug/L	P413908	
		Naproxen	0.0080	U	ug/L	P413908	
		Primidone	0.0040	U	ug/L	P413908	
		Pyraclostrobin	0.0020	U	ug/L	P413908	
		Silvex	0.0040	U	ug/L	P413908	
		Thiamethoxam	0.0020	U	ug/L	P413908	
		Tolfenpyrad	0.0020	U	ug/L	P413908	
		Triclopyr	0.0040	U	ug/L	P413908	
2326643	EPA 8270E	Aldrin	0.72	U	ng/L	P413841	
		Alpha-BHC	0.12	I	ng/L	P413841	
		Alpha-Chlordane	0.22	U	ng/L	P413841	
		PCB-1016	2.2	U	ng/L	P413841	
		Beta-BHC	0.11	U	ng/L	P413841	
		PCB-1221	2.2	U	ng/L	P413841	
		Beta-Cyfluthrin**	1.4	U	ng/L	P413841	MS
		PCB-1232	2.2	U	ng/L	P413841	
		Bifenthrin**	0.55	U	ng/L	P413841	
		PCB-1242	2.2	U	ng/L	P413841	
		PCB-1248	2.2	U	ng/L	P413841	
		Chlorothalonil	1.4	U	ng/L	P413841	
		PCB-1254	2.2	U	ng/L	P413841	
		Cis-Nonachlor**	0.22	U	ng/L	P413841	
		PCB-1260	2.2	U	ng/L	P413841	
		Cypermethrin	1.7	U	ng/L	P413841	
		Dacthal**	0.17	U	ng/L	P413841	
		DDD-p,p'	0.28	U	ng/L	P413841	
		DDE-p,p'	0.22	U	ng/L	P413841	
		DDT-p,p'	0.28	U	ng/L	P413841	
		Delta-BHC	0.44	U	ng/L	P413841	
		Deltamethrin**	1.4	U	ng/L	P413841	
		Dichlobenil**	0.28	U	ng/L	P413841	
		Dicofol	1.4	U	ng/L	P413841	
		Dieldrin	0.44	U	ng/L	P413841	
		Endosulfan I	0.44	U	ng/L	P413841	
		Endosulfan II	0.44	U	ng/L	P413841	
		Endosulfan Sulfate	0.33	U	ng/L	P413841	
		Endrin	0.44	U	ng/L	P413841	
		Endrin Aldehyde	0.83	U	ng/L	P413841	
		Endrin Ketone	0.44	U	ng/L	P413841	

Field ID: G3SW0116 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2326643	EPA 8270E	Esfenvalerate**	0.83	U	ng/L	P413841	
		Ethalfluralin**	0.17	U	ng/L	P413841	
		Fenpropathrin**	0.28	U	ng/L	P413841	
		Gamma-BHC	0.14	U	ng/L	P413841	
		Gamma-Chlordane	0.22	U	ng/L	P413841	
		Heptachlor	0.22	U	ng/L	P413841	
		Heptachlor Epoxide	0.28	U	ng/L	P413841	
		Hexachlorobenzene**	1.1	U	ng/L	P413841	
		Kepone**	5.5	U	ng/L	P413841	
		Lambda-Cyhalothrin**	0.83	U	ng/L	P413841	
		Methoprene**	0.83	U	ng/L	P413841	
		Methoxychlor	0.33	U	ng/L	P413841	
		MGK-264**	0.33	I	ng/L	P413841	
		Mirex	0.77	U	ng/L	P413841	
		Oxychlordane**	0.33	U	ng/L	P413841	MS
		Permethrin	1.8	U	ng/L	P413841	
		Phenothrin**	1.0	U	ng/L	P413841	
		Piperonyl Butoxide**	0.17	U	ng/L	P413841	
		Prallethrin**	2.2	U	ng/L	P413841	
		Tau-Fluvalinate**	0.28	U	ng/L	P413841	
		Tetramethrin**	0.83	U	ng/L	P413841	
		Trans-Nonachlor**	0.22	U	ng/L	P413841	
		Triclosan Methyl**	0.17	U	ng/L	P413841	
		Trifluralin	0.22	U	ng/L	P413841	
	EPA 8276	Chlordane	2.8	U	ng/L	P413841	
		Toxaphene	17	U	ng/L	P413841	
2326645	EPA 8270E	Oxybenzone**	11	U	ng/L	P413852	
		Acetochlor	0.28	U	ng/L	P413852	
		Octinoxate**	22	U	ng/L	P413852	
		Alachlor	0.28	U	ng/L	P413852	
		Avobenzone**	110	U	ng/L	P413852	
		Ametryn	0.67	U	ng/L	P413852	
		Atrazine	6.5		ng/L	P413852	
		Atrazine Desethyl	3.2	I	ng/L	P413852	
		Azinphos Methyl	2.2	U	ng/L	P413852	
		Azoxystrobin**	0.56	U	ng/L	P413852	
		Bromacil	0.56	U	ng/L	P413852	
		Butylate	0.45	U	ng/L	P413852	
		Caffeine**	8.4	U	ng/L	P413852	
		Carbophenothion	0.22	U	ng/L	P413852	
		Carfentrazone Ethyl**	0.11	U	ng/L	P413852	
		Chlorfenapyr**	0.20	U	ng/L	P413852	
		Chlorpyrifos Ethyl	0.28	U	ng/L	P413852	
		Chlorpyrifos Methyl	0.056	U	ng/L	P413852	
		Coumaphos**	0.56	U	ng/L	P413852	

Field ID: G3SW0116 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2326645	EPA 8270E	Cyanazine	3.6	U	ng/L	P413852	
		Cyprodinil**	0.11	U	ng/L	P413852	
		Demeton	1.7	U	ng/L	P413852	
		Diazinon	0.14	U	ng/L	P413852	
		Difenoconazole**	0.67	U	ng/L	P413852	
		Dimethenamid**	0.11	U	ng/L	P413852	
		Dimethomorph**	0.20	U	ng/L	P413852	
		Disulfoton	0.56	U	ng/L	P413852	
		Dithiopyr**	0.20	U	ng/L	P413852	
		EPTC	1.4	U	ng/L	P413852	
		Ethion	0.17	U	ng/L	P413852	
		Ethoprop	0.11	U	ng/L	P413852	
		Etridiazole**	0.17	U	ng/L	P413852	
		Fenamiphos	0.56	U	ng/L	P413852	
		Fenbuconazole**	0.14	U	ng/L	P413852	
		Fipronil	0.28	U	ng/L	P413852	
		Fipronil Desulfinyl**	0.14	U	ng/L	P413852	
		Fipronil Sulfide	0.17	U	ng/L	P413852	
		Fipronil Sulfone	0.17	U	ng/L	P413852	
		Fluazifop-P-butyl**	0.11	U	ng/L	P413852	
		Fludioxonil**	0.14	U	ng/L	P413852	MS
		Flumioxazin**	2.0	U	ng/L	P413852	
		Flutolanil**	0.11	U	ng/L	P413852	
		Fluxapyroxad**	0.11	U	ng/L	P413852	
		Fonofos	0.22	U	ng/L	P413852	
		Hexazinone	0.56	U	ng/L	P413852	
		Imazalil**	0.84	U	ng/L	P413852	
		Iprodione**	0.67	U	ng/L	P413852	
		Loratadine**	0.11	U	ng/L	P413852	
		Malathion	0.39	U	ng/L	P413852	
		Metalaxyl	0.84	U	ng/L	P413852	
		Metolachlor	0.39	U	ng/L	P413852	
		Metribuzin	2.8	U	ng/L	P413852	
		Mevinphos	1.2	U	ng/L	P413852	
		Molinate	0.33	U	ng/L	P413852	
		Myclobutanil**	0.28	U	ng/L	P413852	
		Naled**	1.7	U	ng/L	P413852	
		Napropamide**	0.45	U	ng/L	P413852	
		Norflurazon	0.56	U	ng/L	P413852	
		Oxadiazon	0.33	U	ng/L	P413852	
		Oxyfluorfen**	0.17	U	ng/L	P413852	
		Parathion Ethyl	0.28	U	ng/L	P413852	
		Parathion Methyl	0.61	U	ng/L	P413852	
		Pendimethalin	1.1	U	ng/L	P413852	
		Phenytoin**	3.9	U	ng/L	P413852	

Field ID: G3SW0116 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2326645	EPA 8270E	Phorate	0.59	U	ng/L	P413852	
		Prodiamine**	0.20	U	ng/L	P413852	
		Prometon	1.0	U	ng/L	P413852	
		Prometryn	0.22	U	ng/L	P413852	
		Pronamide**	0.17	U	ng/L	P413852	
		Propanil**	0.14	U	ng/L	P413852	
		Propargite**	1.7	U	ng/L	P413852	
		Propiconazole**	1.3	I	ng/L	P413852	
		Pyraflufen Ethyl**	0.28	U	ng/L	P413852	
		Pyridaben**	0.50	U	ng/L	P413852	
		Pyriproxyfen**	0.14	U	ng/L	P413852	
		Simazine	0.56	U	ng/L	P413852	
		Stirophos**	0.14	U	ng/L	P413852	
		Sulfentrazone**	0.56	U	ng/L	P413852	
		Tebuconazole**	0.87	I	ng/L	P413852	
		Terbufos	0.11	U	ng/L	P413852	
		Terbuthylazine	0.47	U	ng/L	P413852	
		Thiobencarb**	0.67	U	ng/L	P413852	
		Triadimefon**	0.28	U	ng/L	P413852	
2326699	EPA 200.7 Rev. 4.4	Calcium	28.2		mg/L	P413842	
		Iron	47	I	ug/L	P413842	
		Magnesium	3.29		mg/L	P413842	
		Potassium	2.1		mg/L	P413842	
		Sodium	10		mg/L	P413842	
		Strontium	62.1		ug/L	P413842	
		Tin	3.0	U	ug/L	P413842	
		Titanium	1.1	I	ug/L	P413842	
		Vanadium	2.0	U	ug/L	P413842	
		Zinc	5.0	U	ug/L	P413842	
	EPA 200.8 Rev. 5.4	Aluminum	40		ug/L	P413842	
		Antimony	0.14	I	ug/L	P413842	
		Arsenic	0.83		ug/L	P413842	
		Barium	10.8		ug/L	P413842	
		Beryllium	0.010	U	ug/L	P413842	
		Boron**	38.7		ug/L	P413842	
		Cadmium	0.020	U	ug/L	P413842	
		Chromium	0.40	U	ug/L	P413842	
		Cobalt	0.029	I	ug/L	P413842	
		Copper	0.69	I	ug/L	P413842	
		Lead	0.74		ug/L	P413842	
		Manganese	11.2		ug/L	P413842	
		Molybdenum	1.07		ug/L	P413842	
		Nickel	0.50	U	ug/L	P413842	
		Selenium	0.20	U	ug/L	P413842	
		Silver	0.010	U	ug/L	P413842	

Field ID: G3SW0116 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2326699	EPA 200.8 Rev. 5.4	Thallium	0.10	U	ug/L	P413842	
	SM 2340 B-2011	Hardness	84.0		mg/L	P413842	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: MDL for Endothall elevated due to matrix interference.
EPA 8270E: MS accuracy for multiple parameters not assessed due to high content of these parameters in the sample spiked.
EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked.

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P413772

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P413777

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P413842

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: P413842

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P414105

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: P414109

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P414160

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414077

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414146

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P413932

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P414227

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413996

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P413768

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

Reference Method: EPA 8270E
Batch ID: P413841

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P413841

Component	Result	Code	Units
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
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P413841

Component	Result	Code	Units
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
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P413841

Component	Result	Code	Units
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8270E
Batch ID: P413852

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P413852

Component	Result	Code	Units
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P413852

Component	Result	Code	Units
Metolachlor	0.35	U	ng/L
Metribuzin	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytoin	3.5	U	ng/L
Phenytoin	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P413852

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

Reference Method: EPA 8276
Batch ID: P413841

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

Reference Method: EPA 8321B
Batch ID: P413774

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: P413829

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P413908

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

Reference Method: SM 2320 B-2011
Batch ID: P414066

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

Reference Method: SM 2540 C-2011
Batch ID: P414397

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2011
Batch ID: P414432

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P414312

Component	Result	Code	Units
TSS	2	U	mg/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 2540 D-2011
Batch ID: P414429

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P414069

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P413969

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: P413772

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.5		P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P413777

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	96.8		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P413842

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	103		P	85 - 115
Iron	107		P	85 - 115
Magnesium	99.5		P	85 - 115
Potassium	99.8		P	85 - 115
Sodium	101		P	85 - 115
Strontium	103		P	85 - 115
Tin	103		P	85 - 115
Titanium	105		P	85 - 115
Vanadium	98.1		P	85 - 115
Zinc	103		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P413842

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	99.4		P	85 - 115
Antimony	99.9		P	85 - 115
Arsenic	100		P	85 - 115
Barium	103		P	85 - 115
Beryllium	98.2		P	85 - 115
Boron	102		P	85 - 115
Cadmium	99.9		P	85 - 115
Chromium	97.4		P	85 - 115
Cobalt	99.0		P	85 - 115
Copper	98.0		P	85 - 115
Lead	100		P	85 - 115
Manganese	97.2		P	85 - 115
Molybdenum	101		P	85 - 115
Nickel	99.3		P	85 - 115
Selenium	98.9		P	85 - 115
Silver	100		P	85 - 115
Thallium	101		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P414105

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P414109

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P414160

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414077

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	98.3		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414146

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P413932

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	98.0		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P414227

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413996

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P413768

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.1		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P413841

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	57.9		P	10 - 93.0
Alpha-BHC	102		P	75 - 106
Alpha-Chlordane	95.8		P	50 - 109
Beta-BHC	106		P	36 - 138

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P413841

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Beta-Cyfluthrin	102		P	23 - 167
Bifenthrin	62.7		P	11 - 123
Chlorothalonil	166		P	27 - 190
Cis-Nonachlor	88.0		P	40 - 111
Cypermethrin	96.7		P	25 - 155
Dacthal	105		P	72 - 119
DDD-p,p'	104		P	47 - 108
DDE-p,p'	104		P	48 - 107
DDT-p,p'	98.4		P	49 - 111
Delta-BHC	103		P	54 - 138
Deltamethrin	111		P	22 - 189
Dichlobenil	93.2		P	32 - 113
Dicofol	93.7		P	50 - 108
Dieldrin	84.9		P	56 - 110
Endosulfan I	97.4		P	60 - 105
Endosulfan II	103		P	50 - 120
Endosulfan Sulfate	110		P	55 - 121
Endrin	101		P	31 - 119
Endrin Aldehyde	109		P	36 - 116
Endrin Ketone	100		P	69 - 177
Esfenvalerate	93.4		P	10 - 179
Ethalfluralin	92.0		P	49 - 99.0
Fenpropathrin	75.3		P	35 - 119
Gamma-BHC	96.1		P	69 - 120
Gamma-Chlordane	93.3		P	45 - 107
Heptachlor	87.5		P	41 - 100
Heptachlor Epoxide	102		P	58 - 106
Hexachlorobenzene	85.7		P	39 - 100
Kepone	163		P	10 - 191
Lambda-Cyhalothrin	78.6		P	21 - 206
Methoprene	76.9		P	10 - 129
Methoxychlor	74.2		P	61 - 111
MGK-264	80.2		P	20 - 123
Mirex	81.8		P	10 - 182
Oxychlordane	91.5		P	39 - 110
PCB-1016	99.9		P	49 - 111
PCB-1260	90.7		P	42 - 116
Permethrin	93.5		P	26 - 152
Phenothrin	62.1		P	10 - 109
Piperonyl Butoxide	103		P	19 - 147
Prallethrin	76.5		P	14 - 109
Tau-Fluvalinate	89.8		P	16 - 134
Tetramethrin	73.7		P	10 - 125
Trans-Nonachlor	106		P	45 - 107
Triclosan Methyl	103		P	60 - 110
Trifluralin	88.1		P	44 - 101

Reference Method: EPA 8270E
Batch ID: P413852

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	110		P	70 - 121

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P413852

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Alachlor	99.9		P	68 - 119
Ametryn	135		P	64 - 139
Atrazine	94.7		P	76 - 120
Atrazine Desethyl	67.3		P	44 - 126
Avobenzone	116		P	76 - 212
Azinphos Methyl	142		P	43 - 192
Azoxystrobin	105		P	36 - 224
Bromacil	79.8		P	52 - 121
Butylate	61.7		P	28 - 91.0
Caffeine	82.0		P	50 - 134
Carbophenothion	96.5		P	56 - 129
Carfentrazone Ethyl	124		P	60 - 141
Chlorfenapyr	85.1		P	56 - 115
Chlorpyrifos Ethyl	88.9		P	60 - 118
Chlorpyrifos Methyl	95.4		P	68 - 119
Coumaphos	171		P	18 - 250
Cyanazine	194		P	61 - 250
Cyprodinil	139		P	55 - 145
Demeton	86.1		P	30 - 159
Diazinon	116		P	70 - 123
Difenoconazole	183		P	49 - 204
Dimethenamid	88.1		P	64 - 115
Dimethomorph	116		P	12 - 219
Disulfoton	99.2		P	44 - 125
Dithiopyr	99.2		P	64 - 115
EPTC	63.4		P	28 - 86.0
Ethion	72.9		P	33 - 125
Ethoprop	104		P	64 - 116
Etridiazole	69.4		P	34 - 91.0
Fenamiphos	104		P	12 - 127
Fenbuconazole	74.6		P	59 - 151
Fipronil	121		P	67 - 129
Fipronil Desulfinyl	108		P	65 - 127
Fipronil Sulfide	84.4		P	61 - 116
Fipronil Sulfone	100		P	55 - 117
Fluazifop-P-butyl	107		P	62 - 127
Fludioxonil	123		P	62 - 128
Flumioxazin	162		P	33 - 250
Flutolanil	111		P	56 - 127
Fluxapyroxad	64.2		P	45 - 128
Fonofos	88.5		P	62 - 111
Hexazinone	96.3		P	46 - 139
Imazalil	93.2		P	38 - 142
Iprodione	82.3		P	47 - 135
Loratadine	113		P	10 - 244
Malathion	96.8		P	61 - 139
Metalaxyl	93.5		P	10 - 119
Metolachlor	101		P	65 - 118
Metribuzin	89.0		P	51 - 250
Mevinphos	88.3		P	53 - 121
Molinate	76.7		P	42 - 96.0
Myclobutanil	73.7		P	55 - 128

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P413852

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Naled	78.5		P	10 - 98.0
Napropamide	89.2		P	49 - 121
Norflurazon	72.4		P	61 - 126
Octinoxate	82.2		P	30 - 159
Oxadiazon	91.5		P	59 - 116
Oxybenzone	78.3		P	61 - 139
Oxyfluorfen	109		P	64 - 137
Parathion Ethyl	99.6		P	70 - 112
Parathion Methyl	113		P	76 - 133
Pendimethalin	58.8		P	52 - 117
Phenytoin	20.8		P	10 - 199
Phorate	94.7		P	48 - 121
Prodiamine	75.6		P	26 - 142
Prometon	72.5		P	43 - 123
Prometryn	127		P	66 - 127
Pronamide	104		P	75 - 121
Propanil	87.2		P	45 - 150
Propargite	139		P	42 - 208
Propiconazole	75.4		P	60 - 125
Pyraflufen Ethyl	133		P	70 - 138
Pyridaben	142		P	35 - 245
Pyriproxyfen	122		P	30 - 149
Simazine	90.9		P	72 - 125
Stirophos	84.6		P	29 - 164
Sulfentrazone	43.6		P	21 - 139
Tebuconazole	20.7		P	10 - 115
Terbufos	122		P	60 - 123
Terbuthylazine	92.7		P	72 - 115
Thiobencarb	94.0		P	31 - 139
Triadimefon	92.7		P	65 - 116

Reference Method: EPA 8276
Batch ID: P413841

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	86.9		P	61 - 118
Toxaphene	83.0		P	51 - 122

Reference Method: EPA 8321B
Batch ID: P413774

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	79.7		P	40 - 150
Aldicarb	64.1		P	30 - 150
Aldicarb Sulfone	89.3		P	40 - 150
Aldicarb Sulfoxide	88.4		P	40 - 150
Carbaryl	75.5		P	40 - 150
Carbofuran	82.5		P	40 - 150
Methiocarb	69.6		P	40 - 150
Methomyl	80.6		P	40 - 150
Oxamyl	90.6		P	40 - 150
Propoxur	87.6		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P413829

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	98.9		P	40 - 150
AMPA	50.1		P	40 - 150
Endothall	108		P	40 - 150
Glufosinate	75.2		P	40 - 150
Glyphosate	65.2		P	40 - 150
Sucralose	87.5		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P413908

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	68.8		P	40 - 150
2,4,5-T	52.3		P	40 - 150
Acetaminophen	59.2		P	30 - 150
Acetamiprid	93.4		P	40 - 150
Afidopyropen	65.2		P	30 - 150
Bentazon	98.3		P	30 - 150
Benzovindiflupyr	95.3		P	40 - 150
Carbamazepine	88.3		P	40 - 150
Clothianidin	95.5		P	40 - 150
Dinotefuran	93.7		P	40 - 150
Diuron	84.1		P	40 - 150
Fenuron	104		P	40 - 150
Fluridone	82.2		P	40 - 150
Hydrocodone	93.0		P	40 - 150
Ibuprofen	59.1		P	40 - 150
Imazapyr	86.2		P	40 - 150
Imidacloprid	93.4		P	40 - 150
Linuron	78.6		P	40 - 150
Mandestrobin	80.7		P	40 - 150
MCPP	73.2		P	40 - 150
Naproxen	62.2		P	40 - 150
Primidone	85.3		P	40 - 150
Pyraclostrobin	79.1		P	40 - 150
Silvex	44.1		P	40 - 150
Thiamethoxam	98.0		P	40 - 150
Tolfenpyrad	52.2		P	30 - 150
Triclopyr	51.7		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P414066

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.6		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P414069

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.4		P	96 - 104

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P413969

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

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P413842

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2325885	Calcium	104		P	80 - 120
2325885	Iron	108	107	P/P	80 - 120
2325885	Magnesium	101		P	80 - 120
2325885	Potassium	101		P	80 - 120
2325885	Sodium	102		P	80 - 120
2325885	Strontium	103	102	P/P	80 - 120
2325885	Tin	100	101	P/P	80 - 120
2325885	Titanium	103	107	P/P	80 - 120
2325885	Vanadium	97.3	98.7	P/P	80 - 120
2325885	Zinc	103	105	P/P	80 - 120
2326073	Calcium	99.4		P	80 - 120
2326073	Iron	102		P	80 - 120
2326073	Magnesium	99.9		P	80 - 120
2326073	Potassium	107		P	80 - 120
2326073	Sodium	102		P	80 - 120
2326073	Strontium	97.4		P	80 - 120
2326073	Tin	98.2		P	80 - 120
2326073	Titanium	100		P	80 - 120
2326073	Vanadium	95.8		P	80 - 120
2326073	Zinc	96.7		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P413842

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2325885	Aluminum	117	116	P/P	80 - 120
2325885	Antimony	98.4	98.3	P/P	80 - 120
2325885	Arsenic	101	101	P/P	80 - 120
2325885	Barium	104	105	P/P	80 - 120
2325885	Beryllium	97.2	94.0	P/P	80 - 120
2325885	Boron	107	108	P/P	80 - 120
2325885	Cadmium	97.9	99.7	P/P	80 - 120
2325885	Chromium	101	102	P/P	80 - 120
2325885	Cobalt	99.3	99.9	P/P	80 - 120
2325885	Copper	97.9	97.6	P/P	80 - 120
2325885	Lead	102	103	P/P	80 - 120
2325885	Manganese	102	100	P/P	80 - 120
2325885	Molybdenum	103	103	P/P	80 - 120
2325885	Nickel	101	101	P/P	80 - 120
2325885	Selenium	97.3	98.5	P/P	80 - 120
2325885	Silver	99.3	99.6	P/P	80 - 120
2325885	Thallium	103	105	P/P	80 - 120
2326073	Aluminum	98.0		P	80 - 120
2326073	Antimony	101		P	80 - 120
2326073	Arsenic	98.6		P	80 - 120
2326073	Barium	102		P	80 - 120
2326073	Beryllium	95.2		P	80 - 120
2326073	Boron	103		P	80 - 120
2326073	Cadmium	98.9		P	80 - 120
2326073	Chromium	99.2		P	80 - 120
2326073	Cobalt	96.2		P	80 - 120
2326073	Copper	92.9		P	80 - 120

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P413842

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2326073	Lead	100		P	80 - 120
2326073	Manganese	98.4		P	80 - 120
2326073	Molybdenum	100		P	80 - 120
2326073	Nickel	95.0		P	80 - 120
2326073	Selenium	98.1		P	80 - 120
2326073	Silver	97.9		P	80 - 120
2326073	Thallium	102		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P414105

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2326287	Chloride	98.8		P	90 - 110
2326442	Chloride	99.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P414109

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2326287	Sulfate	96.5		P	90 - 110
2326442	Sulfate	97.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P414160

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2326583	Ammonia-N	97.0	97.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414077

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2326588	Kjeldahl Nitrogen	102	109	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414146

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2325443	Kjeldahl Nitrogen	99.3	97.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P413932

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2325308	NO2NO3-N	98.4	97.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P414227

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2326583	NO2NO3-N	96.8	96.8	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413996

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2326646	Total-P	101	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P413768

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2326649	O-Phosphate-P	93.6	93.6	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P413841

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2327303	PCB-1016	95.6	109	P/P	46 - 110
2327303	PCB-1260	89.7	93.9	P/P	42 - 111
2327366	Aldrin	55.1	55.8	P/P	10 - 89.0
2327366	Alpha-BHC	105	101	P/P	71 - 105
2327366	Beta-BHC	123	112	P/P	57 - 152
2327366	Beta-Cyfluthrin	25.4	27.2	F/F	29 - 186
2327366	Bifenthrin	52.4	54.1	P/P	19 - 119
2327366	Chlorothalonil	225	196	P/P	10 - 245
2327366	Cis-Nonachlor	75.8	71.4	P/P	36 - 110
2327366	Cypermethrin	72.7	82.0	P/P	24 - 169
2327366	Dacthal	105	110	P/P	62 - 115
2327366	DDD-p,p'	93.6	93.5	P/P	36 - 109
2327366	DDE-p,p'	92.5	94.8	P/P	30 - 114
2327366	DDT-p,p'	79.2	79.2	P/P	42 - 108
2327366	Delta-BHC	126	113	P/P	60 - 164
2327366	Deltamethrin	84.5	93.1	P/P	10 - 210
2327366	Dichlobenil	93.1	85.0	P/P	23 - 108
2327366	Dicofol	75.1	88.5	P/P	44 - 109
2327366	Dieldrin	101	110	P/P	37 - 119
2327366	Endosulfan I	83.5	88.2	P/P	52 - 105
2327366	Endosulfan II	89.5	104	P/P	35 - 127
2327366	Endosulfan Sulfate	109	80.3	P/P	39 - 130
2327366	Endrin	87.3	88.8	P/P	30 - 116
2327366	Endrin Aldehyde	76.5	77.9	P/P	20 - 110
2327366	Endrin Ketone	95.2	88.7	P/P	48 - 134
2327366	Esfenvalerate	77.2	82.3	P/P	10 - 199
2327366	Ethalfluralin	92.6	87.4	P/P	48 - 95.0
2327366	Fenpropathrin	69.0	60.6	P/P	37 - 121
2327366	Gamma-BHC	112	95.9	P/P	61 - 126
2327366	Heptachlor	76.4	77.1	P/P	38 - 96.0
2327366	Hexachlorobenzene	80.2	78.7	P/P	39 - 93.0
2327366	Lambda-Cyhalothrin	67.1	67.9	P/P	10 - 204
2327366	Methoprene	68.2	71.1	P/P	17 - 108
2327366	Methoxychlor	69.6	75.8	P/P	56 - 115
2327366	MGK-264	90.9	94.5	P/P	35 - 120
2327366	Mirex	70.2	71.4	P/P	10 - 178
2327366	Oxychlordane	106	99.6	F/F	47 - 91.0
2327366	Permethrin	72.0	76.4	P/P	27 - 170
2327366	Phenothrin	62.1	67.6	P/P	10 - 133
2327366	Piperonyl Butoxide	92.5	90.2	P/P	23 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P413841

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2327366	Prallethrin	72.6	75.7	P/P	21 - 113
2327366	Tau-Fluvalinate	70.3	76.7	P/P	16 - 158
2327366	Tetramethrin	80.9	79.5	P/P	22 - 132
2327366	Trans-Nonachlor	92.6	101	P/P	43 - 102
2327366	Triclosan Methyl	108	107	P/P	49 - 109
2327366	Trifluralin	85.8	81.6	P/P	48 - 93.0

Reference Method: EPA 8270E
Batch ID: P413852

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2326579	Acetochlor	104	114	P/P	65 - 124
2326579	Alachlor	94.6	98.4	P/P	61 - 121
2326579	Ametryn	117	106	P/P	52 - 216
2326579	Avobenzone	116	111	P/P	59 - 206
2326579	Azinphos Methyl	177	173	P/P	40 - 292
2326579	Azoxystrobin	107	126	P/P	12 - 242
2326579	Bromacil	90.9	98.2	P/P	54 - 167
2326579	Butylate	51.0	50.6	P/P	14 - 94.0
2326579	Caffeine	98.4	94.2	P/P	10 - 226
2326579	Carbophenothion	89.0	103	P/P	49 - 122
2326579	Carfentrazone Ethyl	117	121	P/P	53 - 138
2326579	Chlorfenapyr	78.0	88.4	P/P	50 - 150
2326579	Chlorpyrifos Ethyl	83.0	95.7	P/P	52 - 122
2326579	Chlorpyrifos Methyl	83.8	97.2	P/P	66 - 117
2326579	Coumaphos	156	171	P/P	50 - 220
2326579	Cyanazine	185	197	P/P	43 - 245
2326579	Cyprodinil	130	139	P/P	50 - 150
2326579	Demeton	85.9	88.8	P/P	43 - 188
2326579	Diazinon	112	118	P/P	69 - 131
2326579	Difenoconazole	181	224	P/P	34 - 231
2326579	Dimethenamid	86.8	91.5	P/P	55 - 118
2326579	Dimethomorph	97.1	114	P/P	50 - 150
2326579	Disulfoton	84.8	102	P/P	38 - 141
2326579	Dithiopyr	98.6	105	P/P	42 - 116
2326579	EPTC	55.0	58.6	P/P	18 - 85.0
2326579	Ethion	76.9	86.3	P/P	10 - 131
2326579	Ethoprop	104	114	P/P	65 - 129
2326579	Etridiazole	62.1	61.1	P/P	50 - 150
2326579	Fenamiphos	86.8	105	P/P	31 - 137
2326579	Fenbuconazole	146	156	P/P	57 - 160
2326579	Fipronil	119	126	P/P	62 - 132
2326579	Fipronil Desulfinyl	105	111	P/P	57 - 131
2326579	Fipronil Sulfide	80.9	93.2	P/P	15 - 138
2326579	Fluazifop-P-butyl	108	115	P/P	54 - 133
2326579	Fludioxonil	120	130	P/F	58 - 127
2326579	Flumioxazin	196	205	P/P	33 - 300
2326579	Flutolanil	105	111	P/P	42 - 130
2326579	Fluxapyroxad	64.9	79.6	P/P	23 - 141
2326579	Fonofos	89.3	86.0	P/P	58 - 119
2326579	Hexazinone	100	108	P/P	68 - 172
2326579	Imazalil	78.1	86.9	P/P	48 - 283

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P413852

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2326579	Iprodione	75.6	88.8	P/P	38 - 140
2326579	Loratadine	96.5	115	P/P	50 - 150
2326579	Malathion	103	111	P/P	40 - 137
2326579	Metalaxyl	88.9	93.0	P/P	21 - 129
2326579	Metolachlor	96.2	104	P/P	55 - 122
2326579	Metribuzin	91.2	89.3	P/P	38 - 187
2326579	Mevinphos	87.2	93.9	P/P	54 - 134
2326579	Molinate	70.9	77.7	P/P	41 - 97.0
2326579	Myclobutanil	82.1	87.4	P/P	56 - 125
2326579	Naled	80.9	91.5	P/P	10 - 108
2326579	Napropamide	84.8	91.5	P/P	50 - 150
2326579	Norflurazon	64.3	75.9	P/P	32 - 122
2326579	Octinoxate	79.4	79.5	P/P	25 - 150
2326579	Oxadiazon	81.9	89.5	P/P	40 - 119
2326579	Oxybenzone	80.9	80.0	P/P	59 - 147
2326579	Oxyfluorfen	123	135	P/P	61 - 153
2326579	Parathion Ethyl	93.2	101	P/P	59 - 130
2326579	Parathion Methyl	109	116	P/P	65 - 155
2326579	Pendimethalin	90.2	102	P/P	49 - 138
2326579	Phenytoin	75.4	73.7	P/P	50 - 200
2326579	Phorate	77.6	82.5	P/P	54 - 161
2326579	Prodiamine	114	134	P/P	33 - 161
2326579	Prometon	112	137	P/P	48 - 140
2326579	Prometryn	124	133	P/P	55 - 134
2326579	Pronamide	105	111	P/P	66 - 137
2326579	Propanil	86.5	92.0	P/P	50 - 150
2326579	Propargite	145	148	P/P	50 - 200
2326579	Propiconazole	136	138	P/P	36 - 150
2326579	Pyraflufen Ethyl	129	136	P/P	50 - 150
2326579	Pyriproxyfen	139	148	P/P	10 - 165
2326579	Stirophos	84.7	94.0	P/P	50 - 150
2326579	Sulfentrazone	128	105	P/P	34 - 140
2326579	Tebuconazole	40.7	40.6	P/P	10 - 127
2326579	Terbufos	115	128	P/P	59 - 138
2326579	Terbuthylazine	95.6	103	P/P	68 - 119
2326579	Thiobencarb	93.2	98.1	P/P	50 - 150
2326579	Triadimefon	89.3	94.6	P/P	50 - 150

Reference Method: EPA 8276
Batch ID: P413841

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2327303	Chlordane	95.5	101	P/P	55 - 128
2327303	Toxaphene	107	107	P/P	57 - 211

Reference Method: EPA 8321B
Batch ID: P413774

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2326576	3-Hydroxycarbofuran	86.5	88.4	P/P	40 - 150
2326576	Aldicarb	71.3	76.9	P/P	30 - 150
2326576	Aldicarb Sulfone	98.0	101	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P413774

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2326576	Aldicarb Sulfoxide	50.3	52.2	P/P	40 - 150
2326576	Carbaryl	62.9	60.3	P/P	40 - 150
2326576	Carbofuran	75.8	76.1	P/P	40 - 150
2326576	Methiocarb	64.2	69.2	P/P	40 - 150
2326576	Methomyl	81.9	83.3	P/P	40 - 150
2326576	Oxamyl	92.4	96.4	P/P	40 - 150
2326576	Propoxur	78.7	80.5	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P413829

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2326637	Acesulfame K	101	101	P/P	40 - 150
2326637	AMPA	49.0	49.7	P/P	40 - 150
2326637	Endothall	175	183	F/F	40 - 150
2326637	Glufosinate	68.1	61.6	P/P	40 - 150
2326637	Glyphosate	56.7	57.7	P/P	40 - 150
2326637	Sucralose	97.7	97.1	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P413908

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2326540	2,4-D	75.8	75.9	P/P	40 - 150
2326540	2,4,5-T	59.0	59.4	P/P	40 - 150
2326540	Acetaminophen	51.6	51.1	P/P	30 - 150
2326540	Acetamiprid	96.7	101	P/P	40 - 150
2326540	Afidopyropen	81.6	79.0	P/P	30 - 150
2326540	Bentazon	99.5	99.3	P/P	30 - 150
2326540	Benzovindiflupyr	88.2	86.7	P/P	40 - 150
2326540	Carbamazepine	89.4	88.9	P/P	40 - 150
2326540	Clothianidin	65.8	69.0	P/P	40 - 150
2326540	Dinotefuran	92.8	96.4	P/P	40 - 150
2326540	Diuron	78.0	86.7	P/P	40 - 150
2326540	Fenuron	90.9	94.0	P/P	40 - 150
2326540	Fluridone	80.9	81.7	P/P	40 - 150
2326540	Hydrocodone	85.6	89.2	P/P	40 - 150
2326540	Ibuprofen	59.9	61.9	P/P	40 - 150
2326540	Imazapyr	73.6	77.6	P/P	40 - 150
2326540	Imidacloprid	79.7	83.2	P/P	40 - 150
2326540	Linuron	71.3	68.7	P/P	40 - 150
2326540	Mandestrobin	76.6	78.4	P/P	40 - 150
2326540	MCPP	77.1	77.9	P/P	40 - 150
2326540	Naproxen	65.7	62.7	P/P	40 - 150
2326540	Primidone	68.7	74.5	P/P	40 - 150
2326540	Pyraclostrobin	72.9	77.3	P/P	40 - 150
2326540	Silvex	58.4	53.6	P/P	40 - 150
2326540	Thiamethoxam	83.6	86.6	P/P	40 - 150
2326540	Tolfenpyrad	44.0	46.8	P/P	30 - 150
2326540	Triclopyr	63.2	59.0	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P414069

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2327113	Fluoride	106	107	F/F	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P413969

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2326583	Organic Carbon	97.5	98.2	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P413772

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326674	Color (true)	0.774	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P413777

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326585	Turbidity	6.23	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P413842

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2325885	Calcium	0.227	Spike	P	0 - 20
2325885	Iron	0.415	Spike	P	0 - 20
2325885	Magnesium	1.31	Spike	P	0 - 20
2325885	Potassium	1.29	Spike	P	0 - 20
2325885	Sodium	0.440	Spike	P	0 - 20
2325885	Strontium	0.618	Spike	P	0 - 20
2325885	Tin	0.618	Spike	P	0 - 20
2325885	Titanium	3.42	Spike	P	0 - 20
2325885	Vanadium	1.35	Spike	P	0 - 20
2325885	Zinc	2.57	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P413842

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2325885	Aluminum	0.682	Spike	P	0 - 20
2325885	Antimony	0.150	Spike	P	0 - 20
2325885	Arsenic	0.221	Spike	P	0 - 20
2325885	Barium	0.294	Spike	P	0 - 20
2325885	Beryllium	3.16	Spike	P	0 - 20
2325885	Boron	0.785	Spike	P	0 - 20
2325885	Cadmium	1.79	Spike	P	0 - 20
2325885	Chromium	0.207	Spike	P	0 - 20
2325885	Cobalt	0.598	Spike	P	0 - 20
2325885	Copper	0.253	Spike	P	0 - 20
2325885	Lead	0.892	Spike	P	0 - 20
2325885	Manganese	0.923	Spike	P	0 - 20
2325885	Molybdenum	0.438	Spike	P	0 - 20
2325885	Nickel	0.0431	Spike	P	0 - 20
2325885	Selenium	1.15	Spike	P	0 - 20
2325885	Silver	0.334	Spike	P	0 - 20
2325885	Thallium	2.15	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P414105

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326287	Chloride	0.0520	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P414109

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326287	Sulfate	0.0441	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P414160

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326583	Ammonia-N	0.363	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414077

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326588	Kjeldahl Nitrogen	4.89	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414146

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2325443	Kjeldahl Nitrogen	1.30	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P413932

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2325308	NO2NO3-N	0.948	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P414227

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326583	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413996

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326646	Total-P	3.14	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P413768

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326649	O-Phosphate-P	0.0	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P413841

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2327303	PCB-1016	13.3	Spike	P	0 - 32
2327303	PCB-1260	4.52	Spike	P	0 - 31
2327366	Aldrin	1.18	Spike	P	0 - 37
2327366	Alpha-BHC	3.88	Spike	P	0 - 16
2327366	Alpha-Chlordane	4.08	Spike	P	0 - 28
2327366	Beta-BHC	8.97	Spike	P	0 - 32
2327366	Beta-Cyfluthrin	6.71	Spike	P	0 - 41
2327366	Bifenthrin	3.20	Spike	P	0 - 36
2327366	Chlorothalonil	13.8	Spike	P	0 - 54
2327366	Cis-Nonachlor	5.11	Spike	P	0 - 33
2327366	Cypermethrin	12.0	Spike	P	0 - 38
2327366	Dacthal	4.54	Spike	P	0 - 23
2327366	DDD-p,p'	0.0301	Spike	P	0 - 35
2327366	DDE-p,p'	2.40	Spike	P	0 - 27
2327366	DDT-p,p'	0.00789	Spike	P	0 - 31
2327366	Delta-BHC	11.0	Spike	P	0 - 30
2327366	Deltamethrin	9.65	Spike	P	0 - 76
2327366	Dichlobenil	9.08	Spike	P	0 - 33
2327366	Dicofol	16.4	Spike	P	0 - 24
2327366	Dieldrin	8.35	Spike	P	0 - 35
2327366	Endosulfan I	5.46	Spike	P	0 - 25
2327366	Endosulfan II	15.5	Spike	P	0 - 31
2327366	Endosulfan Sulfate	30.5	Spike	P	0 - 38
2327366	Endrin	1.71	Spike	P	0 - 53
2327366	Endrin Aldehyde	1.83	Spike	P	0 - 81
2327366	Endrin Ketone	7.13	Spike	P	0 - 33
2327366	Esfenvalerate	6.33	Spike	P	0 - 46
2327366	Ethalfluralin	5.73	Spike	P	0 - 22
2327366	Fenpropathrin	13.0	Spike	P	0 - 29
2327366	Gamma-BHC	15.4	Spike	P	0 - 17
2327366	Gamma-Chlordane	1.02	Spike	P	0 - 28
2327366	Heptachlor	1.01	Spike	P	0 - 28
2327366	Heptachlor Epoxide	14.5	Spike	P	0 - 23
2327366	Hexachlorobenzene	1.93	Spike	P	0 - 22
2327366	Kepone	2.46	Spike	P	0 - 61
2327366	Lambda-Cyhalothrin	1.27	Spike	P	0 - 52
2327366	Methoprene	4.17	Spike	P	0 - 38
2327366	Methoxychlor	8.57	Spike	P	0 - 29
2327366	MGK-264	3.69	Spike	P	0 - 41
2327366	Mirex	1.73	Spike	P	0 - 39
2327366	Oxychlordane	6.69	Spike	P	0 - 33
2327366	Permethrin	5.99	Spike	P	0 - 39
2327366	Phenothrin	8.58	Spike	P	0 - 52
2327366	Piperonyl Butoxide	2.53	Spike	P	0 - 91

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P413841

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2327366	Prallethrin	4.20	Spike	P	0 - 34
2327366	Tau-Fluvalinate	8.77	Spike	P	0 - 41
2327366	Tetramethrin	1.73	Spike	P	0 - 43
2327366	Trans-Nonachlor	5.73	Spike	P	0 - 31
2327366	Triclosan Methyl	0.628	Spike	P	0 - 24
2327366	Trifluralin	5.00	Spike	P	0 - 23

Reference Method: EPA 8270E
Batch ID: P413852

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326579	Acetochlor	8.74	Spike	P	0 - 27
2326579	Alachlor	3.98	Spike	P	0 - 27
2326579	Ametryn	6.43	Spike	P	0 - 34
2326579	Atrazine	11.3	Spike	P	0 - 41
2326579	Atrazine Desethyl	5.49	Spike	P	0 - 38
2326579	Avobenzone	3.81	Spike	P	0 - 30
2326579	Azinphos Methyl	2.44	Spike	P	0 - 62
2326579	Azoxystrobin	8.66	Spike	P	0 - 32
2326579	Bromacil	7.78	Spike	P	0 - 30
2326579	Butylate	0.738	Spike	P	0 - 59
2326579	Caffeine	4.20	Spike	P	0 - 60
2326579	Carbophenothion	14.7	Spike	P	0 - 25
2326579	Carfentrazone Ethyl	2.89	Spike	P	0 - 26
2326579	Chlorfenapyr	12.5	Spike	P	0 - 30
2326579	Chlorpyrifos Ethyl	14.2	Spike	P	0 - 27
2326579	Chlorpyrifos Methyl	14.8	Spike	P	0 - 26
2326579	Coumaphos	9.27	Spike	P	0 - 30
2326579	Cyanazine	6.52	Spike	P	0 - 58
2326579	Cyprodinil	6.61	Spike	P	0 - 30
2326579	Demeton	3.33	Spike	P	0 - 25
2326579	Diazinon	5.56	Spike	P	0 - 29
2326579	Difenoconazole	21.4	Spike	P	0 - 25
2326579	Dimethenamid	5.23	Spike	P	0 - 30
2326579	Dimethomorph	16.3	Spike	P	0 - 30
2326579	Disulfoton	18.4	Spike	P	0 - 33
2326579	Dithiopyr	6.25	Spike	P	0 - 22
2326579	EPTC	6.30	Spike	P	0 - 38
2326579	Ethion	11.6	Spike	P	0 - 79
2326579	Ethoprop	9.20	Spike	P	0 - 23
2326579	Etridiazole	1.50	Spike	P	0 - 30
2326579	Fenamiphos	18.5	Spike	P	0 - 58
2326579	Fenbuconazole	6.13	Spike	P	0 - 37
2326579	Fipronil	5.54	Spike	P	0 - 33
2326579	Fipronil Desulfinyl	4.07	Spike	P	0 - 26
2326579	Fipronil Sulfide	11.1	Spike	P	0 - 37
2326579	Fipronil Sulfone	6.31	Spike	P	0 - 50
2326579	Fluazifop-P-butyl	5.55	Spike	P	0 - 24
2326579	Fludioxonil	8.40	Spike	P	0 - 26
2326579	Flumioxazin	4.55	Spike	P	0 - 37

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P413852

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326579	Flutolanil	5.73	Spike	P	0 - 26
2326579	Fluxapyroxad	19.1	Spike	P	0 - 34
2326579	Fonofos	3.85	Spike	P	0 - 27
2326579	Hexazinone	7.83	Spike	P	0 - 36
2326579	Imazalil	10.6	Spike	P	0 - 65
2326579	Iprodione	16.1	Spike	P	0 - 33
2326579	Loratadine	17.4	Spike	P	0 - 30
2326579	Malathion	7.42	Spike	P	0 - 44
2326579	Metalaxyl	4.57	Spike	P	0 - 38
2326579	Metolachlor	7.39	Spike	P	0 - 36
2326579	Metribuzin	2.07	Spike	P	0 - 63
2326579	Mevinphos	7.36	Spike	P	0 - 26
2326579	Molinate	9.12	Spike	P	0 - 40
2326579	Myclobutanil	5.48	Spike	P	0 - 21
2326579	Naled	12.2	Spike	P	0 - 26
2326579	Napropamide	7.62	Spike	P	0 - 30
2326579	Norflurazon	16.6	Spike	P	0 - 24
2326579	Octinoxate	0.0714	Spike	P	0 - 30
2326579	Oxadiazon	7.60	Spike	P	0 - 27
2326579	Oxybenzone	1.10	Spike	P	0 - 30
2326579	Oxyfluorfen	9.19	Spike	P	0 - 24
2326579	Parathion Ethyl	7.76	Spike	P	0 - 28
2326579	Parathion Methyl	6.36	Spike	P	0 - 27
2326579	Pendimethalin	12.2	Spike	P	0 - 31
2326579	Phenytoin	2.28	Spike	P	0 - 30
2326579	Phorate	6.07	Spike	P	0 - 27
2326579	Prodiamine	16.5	Spike	P	0 - 52
2326579	Prometon	20.5	Spike	P	0 - 31
2326579	Prometryn	6.75	Spike	P	0 - 28
2326579	Pronamide	6.31	Spike	P	0 - 26
2326579	Propanil	6.21	Spike	P	0 - 30
2326579	Propargite	2.20	Spike	P	0 - 30
2326579	Propiconazole	0.877	Spike	P	0 - 31
2326579	Pyraflufen Ethyl	4.81	Spike	P	0 - 30
2326579	Pyridaben	14.5	Spike	P	0 - 30
2326579	Pyriproxyfen	6.05	Spike	P	0 - 50
2326579	Simazine	3.60	Spike	P	0 - 29
2326579	Stirophos	10.4	Spike	P	0 - 30
2326579	Sulfentrazone	16.1	Spike	P	0 - 33
2326579	Tebuconazole	0.332	Spike	P	0 - 44
2326579	Terbufos	10.5	Spike	P	0 - 29
2326579	Terbuthylazine	7.12	Spike	P	0 - 27
2326579	Thiobencarb	5.10	Spike	P	0 - 30
2326579	Triadimefon	4.96	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P413841

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2327303	Chlordane	5.22	Spike	P	0 - 25

Quality Assurance Report
Precision

Reference Method: EPA 8276
Batch ID: P413841

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2327303	Toxaphene	0.738	Spike	P	0 - 24

Reference Method: EPA 8321B
Batch ID: P413774

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326576	3-Hydroxycarbofuran	2.19	Spike	P	0 - 30
2326576	Aldicarb	7.54	Spike	P	0 - 30
2326576	Aldicarb Sulfone	2.78	Spike	P	0 - 30
2326576	Aldicarb Sulfoxide	3.59	Spike	P	0 - 30
2326576	Carbaryl	4.19	Spike	P	0 - 30
2326576	Carbofuran	0.339	Spike	P	0 - 30
2326576	Methiocarb	7.40	Spike	P	0 - 30
2326576	Methomyl	1.73	Spike	P	0 - 30
2326576	Oxamyl	4.21	Spike	P	0 - 30
2326576	Propoxur	2.21	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P413829

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326637	Acesulfame K	0.497	Spike	P	0 - 30
2326637	AMPA	1.37	Spike	P	0 - 30
2326637	Endothall	4.30	Spike	P	0 - 30
2326637	Glufosinate	10.0	Spike	P	0 - 30
2326637	Glyphosate	1.66	Spike	P	0 - 30
2326637	Sucralose	0.531	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P413908

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326540	2,4-D	0.139	Spike	P	0 - 30
2326540	2,4,5-T	0.624	Spike	P	0 - 30
2326540	Acetaminophen	1.06	Spike	P	0 - 30
2326540	Acetamiprid	4.42	Spike	P	0 - 30
2326540	Afidopyropen	3.23	Spike	P	0 - 30
2326540	Bentazon	0.156	Spike	P	0 - 30
2326540	Benzovindiflupyr	1.76	Spike	P	0 - 30
2326540	Carbamazepine	0.590	Spike	P	0 - 30
2326540	Clothianidin	4.71	Spike	P	0 - 30
2326540	Dinotefuran	3.84	Spike	P	0 - 30
2326540	Diuron	10.6	Spike	P	0 - 30
2326540	Fenuron	3.39	Spike	P	0 - 30
2326540	Fluridone	1.00	Spike	P	0 - 30
2326540	Hydrocodone	4.08	Spike	P	0 - 30
2326540	Ibuprofen	3.18	Spike	P	0 - 30
2326540	Imazapyr	4.67	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P413908

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326540	Imidacloprid	4.31	Spike	P	0 - 30
2326540	Linuron	3.82	Spike	P	0 - 30
2326540	Mandestrobin	2.26	Spike	P	0 - 30
2326540	MCPP	0.961	Spike	P	0 - 30
2326540	Naproxen	4.65	Spike	P	0 - 30
2326540	Primidone	8.16	Spike	P	0 - 30
2326540	Pyraclostrobin	5.85	Spike	P	0 - 30
2326540	Silvex	8.68	Spike	P	0 - 30
2326540	Thiamethoxam	3.52	Spike	P	0 - 30
2326540	Tolfenpyrad	6.09	Spike	P	0 - 30
2326540	Triclopyr	6.80	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P414066

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2327113	Total Alkalinity	0.591	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P414397

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326674	TDS	5.46	Sample	P	0 - 10

Reference Method: SM 2540 C-2011
Batch ID: P414432

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326621	TDS	9.30	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P414069

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2327113	Fluoride	0.490	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P413969

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326583	Organic Carbon	0.507	Spike	P	0 - 20

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2326635
Field Sample ID: G3SW0077

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	54.7	P	30 - 160

Lab Sample ID: 2326636
Field Sample ID: G3SW0116

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	57.7	P	30 - 160

Lab Sample ID: 2326637
Field Sample ID: G3SW0077

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	53.3	P	30 - 160
EPA 8321B	Acetaminophen-d4	35.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	69.7	P	30 - 160
EPA 8321B	Diuron-d6	63.8	P	30 - 160
EPA 8321B	Endothall-d6	186	F	30 - 160
EPA 8321B	Glyphosate 13C 15N	69.4	P	30 - 160
EPA 8321B	Ibuprofen-d3	57.7	P	30 - 160
EPA 8321B	Primidone-d5	70.5	P	30 - 160
EPA 8321B	Sucralose-d6	93.0	P	30 - 160

Lab Sample ID: 2326638
Field Sample ID: G3SW0116

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	49.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	35.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	70.2	P	30 - 160
EPA 8321B	Diuron-d6	58.1	P	30 - 160
EPA 8321B	Endothall-d6	142	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	71.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	53.5	P	30 - 160
EPA 8321B	Primidone-d5	76.0	P	30 - 160
EPA 8321B	Sucralose-d6	91.7	P	30 - 160

Lab Sample ID: 2326642
Field Sample ID: G3SW0077

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	78.3	P	38 - 115
EPA 8270E	Decachlorobiphenyl	73.6	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	48.4	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	42.8	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	54.0	P	30 - 97.0
EPA 8276	PCNB	73.0	P	45 - 119

Lab Sample ID: 2326643
Field Sample ID: G3SW0116

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	84.2	P	38 - 115

Quality Assurance Report
Surrogates

Lab Sample ID: 2326643
Field Sample ID: G3SW0116

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	85.7	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	56.9	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	52.5	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	63.2	P	30 - 97.0
EPA 8276	PCNB	74.4	P	45 - 119

Lab Sample ID: 2326644
Field Sample ID: G3SW0077

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	59.9	P	20 - 200
EPA 8270E	Simazine-d10	103	P	71 - 140
EPA 8270E	Terbufos-d10	76.2	P	62 - 131
EPA 8270E	Terphenyl-d14	55.9	P	52 - 141
EPA 8270E	Terphenyl-d14	59.9	P	52 - 141

Lab Sample ID: 2326645
Field Sample ID: G3SW0116

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	70.2	P	20 - 200
EPA 8270E	Simazine-d10	74.4	P	71 - 140
EPA 8270E	Terbufos-d10	72.7	P	62 - 131
EPA 8270E	Terphenyl-d14	57.3	P	52 - 141

Quality Assurance Report
Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A112101
Included Lab Sample IDs: 2326625, 2326626

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.5	99.0	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1
Run ID: A112103
Included Lab Sample IDs: 2326621, 2326622

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.7	102	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A112107
Included Lab Sample IDs: 2326621, 2326622

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	101	101	P/P	95 - 105

Reference Method: EPA 8321B
Run ID: A112175
Included Lab Sample IDs: 2326637, 2326638

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	87.7	71.5	P/P	60 - 160
Endothall	125	127	P/P	60 - 160
Endothall	127	114	P/P	60 - 160
Glufosinate	95.0	68.9	P/P	60 - 160
Glyphosate	83.8	78.7	P/P	60 - 160

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A112196
Included Lab Sample IDs: 2326623

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.0	99.0	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A112198
Included Lab Sample IDs: 2326621, 2326622

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

Reference Method: SM 5310 B-2011
Run ID: A112207
Included Lab Sample IDs: 2326623, 2326624

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.8	97.8	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A112212
Included Lab Sample IDs: 2326637, 2326638

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	102	105	P/P	60 - 160
Sucralose	100	90.7	P/P	60 - 160

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A112214
Included Lab Sample IDs: 2326698, 2326699

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	100	101	P/P	90 - 110
Iron	99.8	101	P/P	90 - 110
Magnesium	99.3	100	P/P	90 - 110
Potassium	100	100	P/P	90 - 110
Sodium	101	101	P/P	90 - 110
Strontium	104	101	P/P	90 - 110
Tin	98.9	100	P/P	90 - 110
Titanium	100	103	P/P	90 - 110
Vanadium	101	103	P/P	90 - 110
Zinc	101	102	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A112222
Included Lab Sample IDs: 2326637, 2326638

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	91.0	96.9	P/P	50 - 150
2,4-D	91.1	91.0	P/P	50 - 150
2,4,5-T	88.6	96.5	P/P	50 - 150
2,4,5-T	90.1	88.6	P/P	50 - 150
3-Hydroxycarbofuran	95.8	99.3	P/P	60 - 150
Acetaminophen	101	100	P/P	60 - 160
Acetaminophen	103	101	P/P	60 - 160
Acetamiprid	108	111	P/P	50 - 150
Acetamiprid	111	108	P/P	50 - 150
Afidopyropen	90.7	96.0	P/P	50 - 150
Afidopyropen	94.7	90.7	P/P	50 - 150
Aldicarb	92.3	94.5	P/P	60 - 150
Aldicarb Sulfone	98.2	101	P/P	50 - 150
Aldicarb Sulfoxide	94.6	95.5	P/P	50 - 150
Bentazon	92.3	91.9	P/P	50 - 160
Bentazon	92.9	92.3	P/P	50 - 160
Benzovindiflupyr	102	106	P/P	50 - 150
Benzovindiflupyr	106	109	P/P	50 - 150
Carbamazepine	103	103	P/P	60 - 150
Carbamazepine	109	103	P/P	60 - 150
Carbaryl	103	97.6	P/P	60 - 150
Carbofuran	96.5	97.5	P/P	50 - 150
Clothianidin	103	98.2	P/P	60 - 150
Clothianidin	106	103	P/P	60 - 150
Dinotefuran	103	99.1	P/P	50 - 150
Dinotefuran	99.3	103	P/P	50 - 150
Diuron	106	98.3	P/P	60 - 160

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A112222
Included Lab Sample IDs: 2326637, 2326638

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Diuron	98.3	97.0	P/P	60 - 160
Fenuron	96.1	96.5	P/P	60 - 150
Fenuron	96.5	95.8	P/P	60 - 150
Fluridone	100	103	P/P	60 - 160
Fluridone	101	100	P/P	60 - 160
Hydrocodone	96.1	97.5	P/P	60 - 150
Hydrocodone	97.5	101	P/P	60 - 150
Ibuprofen	78.0	85.1	P/P	50 - 160
Ibuprofen	81.5	78.0	P/P	50 - 160
Imazapyr	90.9	88.2	P/P	50 - 150
Imazapyr	91.0	90.9	P/P	50 - 150
Imidacloprid	100	91.1	P/P	60 - 150
Imidacloprid	94.5	100	P/P	60 - 150
Linuron	103	101	P/P	60 - 150
Linuron	106	103	P/P	60 - 150
Mandestrobin	102	99.6	P/P	50 - 150
Mandestrobin	99.6	101	P/P	50 - 150
MCPP	90.8	96.1	P/P	50 - 150
MCPP	96.1	93.2	P/P	50 - 150
Methiocarb	99.5	98.9	P/P	50 - 150
Methomyl	96.7	97.0	P/P	50 - 150
Naproxen	102	87.3	P/P	50 - 160
Naproxen	87.3	106	P/P	50 - 160
Oxamyl	96.9	97.4	P/P	50 - 150
Primidone	100	103	P/P	60 - 150
Primidone	97.2	100	P/P	60 - 150
Propoxur	104	107	P/P	50 - 150
Pyraclostrobin	101	103	P/P	60 - 150
Pyraclostrobin	103	101	P/P	60 - 150
Silvex	91.1	91.8	P/P	50 - 150
Silvex	91.8	89.2	P/P	50 - 150
Thiamethoxam	104	96.1	P/P	50 - 150
Thiamethoxam	104	104	P/P	50 - 150
Tolfenpyrad	105	106	P/P	60 - 150
Tolfenpyrad	106	105	P/P	60 - 150
Triclopyr	81.3	91.3	P/P	50 - 150
Triclopyr	89.0	81.3	P/P	50 - 150

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A112233
Included Lab Sample IDs: 2326698, 2326699

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.4	99.1	P/P	90 - 110
Antimony	98.6	98.6	P/P	90 - 110
Arsenic	99.0	97.0	P/P	90 - 110
Barium	99.4	99.5	P/P	90 - 110
Beryllium	96.6	95.0	P/P	90 - 110
Boron	98.9	99.6	P/P	90 - 110
Cadmium	98.3	98.2	P/P	90 - 110
Chromium	98.2	98.6	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A112233
Included Lab Sample IDs: 2326698, 2326699

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cobalt	97.5	95.6	P/P	90 - 110
Copper	98.3	95.8	P/P	90 - 110
Lead	98.0	98.4	P/P	90 - 110
Manganese	97.6	97.9	P/P	90 - 110
Molybdenum	98.6	97.8	P/P	90 - 110
Nickel	98.0	95.9	P/P	90 - 110
Selenium	98.2	96.8	P/P	90 - 110
Silver	99.0	97.9	P/P	90 - 110
Thallium	97.8	97.1	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A112245
Included Lab Sample IDs: 2326621, 2326622

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.1	97.8	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A112245
Included Lab Sample IDs: 2326621, 2326622

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

Reference Method: EPA 8270E
Run ID: A112276
Included Lab Sample IDs: 2326642, 2326643

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	99.3		P	80 - 120
PCB-1260	102		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A112288
Included Lab Sample IDs: 2326623, 2326624

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.1	97.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A112305
Included Lab Sample IDs: 2326623, 2326624

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A112329
Included Lab Sample IDs: 2326624

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A112329
Included Lab Sample IDs: 2326624

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.0	99.0	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A112381
Included Lab Sample IDs: 2326642, 2326643

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	82.2		P	80 - 120
Alpha-BHC	91.6		P	80 - 120
Alpha-Chlordane	89.4		P	80 - 120
Beta-BHC	87.9		P	80 - 120
Bifenthrin	86.8		P	80 - 120
Chlorothalonil	112		P	80 - 120
Cis-Nonachlor	118		P	80 - 120
Cypermethrin	80.4		P	80 - 120
Dacthal	89.9		P	80 - 120
DDD-p,p'	93.8		P	80 - 120
DDE-p,p'	97.8		P	80 - 120
DDT-p,p'	100		P	80 - 120
Delta-BHC	84.3		P	80 - 120
Dieldrin	108		P	80 - 120
Endosulfan I	83.2		P	80 - 120
Endosulfan II	83.2		P	80 - 120
Endosulfan Sulfate	81.9		P	80 - 120
Endrin Aldehyde	105		P	80 - 120
Endrin Ketone	97.2		P	80 - 120
Ethalfluralin	93.6		P	80 - 120
Fenpropathrin	89.2		P	80 - 120
Gamma-BHC	89.6		P	80 - 120
Gamma-Chlordane	85.6		P	80 - 120
Heptachlor	97.9		P	80 - 120
Heptachlor Epoxide	97.0		P	80 - 120
Hexachlorobenzene	90.5		P	80 - 120
Kepone	118		P	80 - 120
Methoprene	80.9		P	80 - 120
Methoxychlor	97.4		P	80 - 120
Mirex	87.0		P	80 - 120
Permethrin	84.3		P	80 - 120
Piperonyl Butoxide	81.8		P	80 - 120
Prallethrin	83.4		P	80 - 120
Tetramethrin	81.3		P	80 - 120
Trans-Nonachlor	96.3		P	80 - 120
Triclosan Methyl	93.1		P	80 - 120
Trifluralin	95.0		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A112419
Included Lab Sample IDs: 2326623, 2326624

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	107	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A112419
Included Lab Sample IDs: 2326623, 2326624

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

Reference Method: EPA 8270E
Run ID: A112425
Included Lab Sample IDs: 2326642, 2326643

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beta-Cyfluthrin	101		P	80 - 120
Deltamethrin	98.7		P	80 - 120
Dichlobenil	109		P	80 - 120
Dicofol	98.9		P	80 - 120
Endrin	99.1		P	80 - 120
Esfenvalerate	94.3		P	80 - 120
Lambda-Cyhalothrin	85.5		P	80 - 120
MGK-264	94.6		P	80 - 120
Oxychlordane	96.2		P	80 - 120
Phenothrin	92.8		P	80 - 120
Tau-Fluvalinate	96.0		P	80 - 120

Reference Method: EPA 8276
Run ID: A112459
Included Lab Sample IDs: 2326642, 2326643

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.0		P	80 - 120
Toxaphene	97.5		P	80 - 120

Reference Method: EPA 8270E
Run ID: A112470
Included Lab Sample IDs: 2326642

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dicofol	100		P	80 - 120

Reference Method: EPA 8270E
Run ID: A112489
Included Lab Sample IDs: 2326644, 2326645

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Avobenzone	102		P	80 - 120
Octinoxate	96.5		P	80 - 120
Oxybenzone	96.8		P	80 - 120

Reference Method: EPA 8270E
Run ID: A112507
Included Lab Sample IDs: 2326644, 2326645

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	104		P	80 - 120
Alachlor	104		P	80 - 120
Ametryn	113		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A112507
Included Lab Sample IDs: 2326644, 2326645

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	101		P	80 - 120
Atrazine Desethyl	107		P	80 - 120
Azinphos Methyl	96.6		P	80 - 120
Azoxystrobin	98.4		P	80 - 120
Bromacil	101		P	80 - 120
Butylate	108		P	80 - 120
Caffeine	98.7		P	80 - 120
Carbophenothion	100		P	80 - 120
Carfentrazone Ethyl	98.1		P	80 - 120
Chlorfenapyr	104		P	80 - 120
Chlorpyrifos Ethyl	104		P	80 - 120
Chlorpyrifos Methyl	104		P	80 - 120
Coumaphos	99.1		P	80 - 120
Cyanazine	99.9		P	80 - 120
Cyprodinil	102		P	80 - 120
Demeton	104		P	80 - 120
Diazinon	98.1		P	80 - 120
Difenoconazole	99.9		P	80 - 120
Dimethenamid	103		P	80 - 120
Dimethomorph	99.2		P	80 - 120
Disulfoton	106		P	80 - 120
Dithiopyr	101		P	80 - 120
EPTC	95.7		P	80 - 120
Ethion	103		P	80 - 120
Ethoprop	102		P	80 - 120
Etridiazole	103		P	80 - 120
Fenamiphos	98.6		P	80 - 120
Fenbuconazole	99.5		P	80 - 120
Fipronil	107		P	80 - 120
Fipronil Desulfinyl	103		P	80 - 120
Fipronil Sulfide	99.1		P	80 - 120
Fipronil Sulfone	103		P	80 - 120
Fluazifop-P-butyl	102		P	80 - 120
Fludioxonil	100		P	80 - 120
Flumioxazin	97.0		P	80 - 120
Flutolanil	97.8		P	80 - 120
Fluxapyroxad	100		P	80 - 120
Fonofos	91.7		P	80 - 120
Hexazinone	99.7		P	80 - 120
Imazalil	91.5		P	80 - 120
Iprodione	92.5		P	80 - 120
Loratadine	102		P	80 - 120
Malathion	96.1		P	80 - 120
Metalaxyl	104		P	80 - 120
Metolachlor	104		P	80 - 120
Metribuzin	97.6		P	80 - 120
Mevinphos	94.1		P	80 - 120
Molinate	95.8		P	80 - 120
Myclobutanil	109		P	80 - 120
Naled	104		P	80 - 120
Napropamide	101		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A112507
Included Lab Sample IDs: 2326644, 2326645

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Norflurazon	100		P	80 - 120
Oxadiazon	107		P	80 - 120
Oxyfluorfen	101		P	80 - 120
Parathion Ethyl	99.3		P	80 - 120
Parathion Methyl	97.0		P	80 - 120
Pendimethalin	103		P	80 - 120
Phenytoin	104		P	80 - 120
Phorate	100		P	80 - 120
Prodiamine	107		P	80 - 120
Prometon	98.8		P	80 - 120
Prometryn	101		P	80 - 120
Pronamide	97.1		P	80 - 120
Propanil	99.3		P	80 - 120
Propargite	95.3		P	80 - 120
Propiconazole	103		P	80 - 120
Pyraflufen Ethyl	95.6		P	80 - 120
Pyridaben	97.6		P	80 - 120
Pyriproxyfen	96.6		P	80 - 120
Simazine	105		P	80 - 120
Stirophos	103		P	80 - 120
Sulfentrazone	102		P	80 - 120
Tebuconazole	98.8		P	80 - 120
Terbufos	104		P	80 - 120
Terbuthylazine	101		P	80 - 120
Thiobencarb	101		P	80 - 120
Triadimefon	118		P	80 - 120

Reference Method: EPA 8270E
Run ID: A112519
Included Lab Sample IDs: 2326644

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Oxybenzone	96.1		P	80 - 120

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

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision	
					LCS	SMP	MS
DEP SOP: NU-094-1	Color (true)	99.5				0.774	
EPA 180.1 Rev. 2.0	Turbidity	96.8				6.23	
EPA 200.7 Rev. 4.4	Calcium	103	104	99.4			0.227
	Iron	107	108	107	102		0.415
	Magnesium	99.5	101	99.9			1.31
	Potassium	99.8	101	107			1.29
	Sodium	101	102	102			0.440
	Strontium	103	103	102	97.4		0.618
	Tin	103	100	101	98.2		0.618
	Titanium	105	103	107	100		3.42
	Vanadium	98.1	97.3	98.7	95.8		1.35
	Zinc	103	103	105	96.7		2.57
EPA 200.8 Rev. 5.4	Aluminum	99.4	117	116	98.0		0.682
	Antimony	99.9	98.4	98.3	101		0.150
	Arsenic	100	101	101	98.6		0.221
	Barium	103	104	105	102		0.294
	Beryllium	98.2	97.2	94.0	95.2		3.16
	Boron	102	107	108	103		0.785
	Cadmium	99.9	97.9	99.7	98.9		1.79
	Chromium	97.4	101	102	99.2		0.207
	Cobalt	99.0	99.3	99.9	96.2		0.598
	Copper	98.0	97.9	97.6	92.9		0.253
	Lead	100	102	103	100		0.892
	Manganese	97.2	102	100	98.4		0.923
	Molybdenum	101	103	103	100		0.438
	Nickel	99.3	101	101	95.0		0.0431
	Selenium	98.9	97.3	98.5	98.1		1.15
	Silver	100	99.3	99.6	97.9		0.334
	Thallium	101	103	105	102		2.15
EPA 300.0 Rev. 2.1	Chloride	100	98.8	99.7		0.0520	
	Sulfate	99.0	96.5	97.4		0.0441	
EPA 350.1 Rev. 2.0	Ammonia-N	98.6	97.0	97.4			0.363
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	98.3	102	109			4.89
	Kjeldahl Nitrogen	102	99.3	97.5			1.30
EPA 353.2 Rev. 2.0	NO2NO3-N	98.0	98.4	97.4			0.948
	NO2NO3-N	99.5	96.8	96.8			0.0
EPA 365.1 Rev. 2.0	Total-P	101	101	105			3.14
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.1	93.6	93.6			0.0
EPA 8270E	Acetochlor	110	104	114			8.74
	Alachlor	99.9	94.6	98.4			3.98
	Aldrin	57.9	55.1	55.8			1.18
	Alpha-BHC	102	105	101			3.88
	Alpha-Chlordane	95.8					4.08
	Ametryn	135	117	106			6.43
	Atrazine	94.7					11.3
	Atrazine Desethyl	67.3					5.49
	Avobenzone	116	116	111			3.81
	Azinphos Methyl	142	177	173			2.44
	Azoxystrobin	105	107	126			8.66
	Beta-BHC	106	123	112			8.97
	Beta-Cyfluthrin	102	25.4	27.2			6.71
	Bifenthrin	62.7	52.4	54.1			3.20
	Bromacil	79.8	90.9	98.2			7.78
	Butylate	61.7	51.0	50.6			0.738

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Caffeine	82.0	98.4	94.2			4.20
	Carbophenothion	96.5	89.0	103			14.7
	Carfentrazone Ethyl	124	117	121			2.89
	Chlorfenapyr	85.1	78.0	88.4			12.5
	Chlorothalonil	166	225	196			13.8
	Chlorpyrifos Ethyl	88.9	83.0	95.7			14.2
	Chlorpyrifos Methyl	95.4	83.8	97.2			14.8
	Cis-Nonachlor	88.0	75.8	71.4			5.11
	Coumaphos	171	156	171			9.27
	Cyanazine	194	185	197			6.52
	Cypermethrin	96.7	72.7	82.0			12.0
	Cyprodinil	139	130	139			6.61
	Dacthal	105	105	110			4.54
	DDD-p,p'	104	93.6	93.5			0.0301
	DDE-p,p'	104	92.5	94.8			2.40
	DDT-p,p'	98.4	79.2	79.2			0.0078
	Delta-BHC	103	126	113			11.0
	Deltamethrin	111	84.5	93.1			9.65
	Demeton	86.1	85.9	88.8			3.33
	Diazinon	116	112	118			5.56
	Dichlobenil	93.2	93.1	85.0			9.08
	Dicofol	93.7	75.1	88.5			16.4
	Dieldrin	84.9	101	110			8.35
	Difenoconazole	183	181	224			21.4
	Dimethenamid	88.1	86.8	91.5			5.23
	Dimethomorph	116	97.1	114			16.3
	Disulfoton	99.2	84.8	102			18.4
	Dithiopyr	99.2	98.6	105			6.25
	Endosulfan I	97.4	83.5	88.2			5.46
	Endosulfan II	103	89.5	104			15.5
	Endosulfan Sulfate	110	109	80.3			30.5
	Endrin	101	87.3	88.8			1.71
	Endrin Aldehyde	109	76.5	77.9			1.83
	Endrin Ketone	100	95.2	88.7			7.13
	EPTC	63.4	55.0	58.6			6.30
	Esfenvalerate	93.4	77.2	82.3			6.33
	Ethalfluralin	92.0	92.6	87.4			5.73
	Ethion	72.9	76.9	86.3			11.6
	Ethoprop	104	104	114			9.20
	Etridiazole	69.4	62.1	61.1			1.50
	Fenamiphos	104	86.8	105			18.5
	Fenbuconazole	74.6	146	156			6.13
	Fenpropathrin	75.3	69.0	60.6			13.0
	Fipronil	121	119	126			5.54
	Fipronil Desulfinyl	108	105	111			4.07
	Fipronil Sulfide	84.4	80.9	93.2			11.1
	Fipronil Sulfone	100					6.31
	Fluazifop-P-butyl	107	108	115			5.55
	Fludioxonil	123	120	130			8.40
	Flumioxazin	162	196	205			4.55
	Flutolanil	111	105	111			5.73
	Fluxapyroxad	64.2	64.9	79.6			19.1
	Fonofos	88.5	89.3	86.0			3.85
	Gamma-BHC	96.1	112	95.9			15.4

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Gamma-Chlordane	93.3					1.02
	Heptachlor	87.5	76.4	77.1			1.01
	Heptachlor Epoxide	102					14.5
	Hexachlorobenzene	85.7	80.2	78.7			1.93
	Hexazinone	96.3	100	108			7.83
	Imazalil	93.2	78.1	86.9			10.6
	Iprodione	82.3	75.6	88.8			16.1
	Kepone	163					2.46
	Lambda-Cyhalothrin	78.6	67.1	67.9			1.27
	Loratadine	113	96.5	115			17.4
	Malathion	96.8	103	111			7.42
	Metalaxyl	93.5	88.9	93.0			4.57
	Methoprene	76.9	68.2	71.1			4.17
	Methoxychlor	74.2	69.6	75.8			8.57
	Metolachlor	101	96.2	104			7.39
	Metribuzin	89.0	91.2	89.3			2.07
	Mevinphos	88.3	87.2	93.9			7.36
	MGK-264	80.2	90.9	94.5			3.69
	Mirex	81.8	70.2	71.4			1.73
	Molinate	76.7	70.9	77.7			9.12
	Myclobutanil	73.7	82.1	87.4			5.48
	Naled	78.5	80.9	91.5			12.2
	Napropamide	89.2	84.8	91.5			7.62
	Norflurazon	72.4	64.3	75.9			16.6
	Octinoxate	82.2	79.4	79.5			0.0714
	Oxadiazon	91.5	81.9	89.5			7.60
	Oxybenzone	78.3	80.9	80.0			1.10
	Oxychlordane	91.5	106	99.6			6.69
	Oxyfluorfen	109	123	135			9.19
	Parathion Ethyl	99.6	93.2	101			7.76
	Parathion Methyl	113	109	116			6.36
	PCB-1016	99.9	95.6	109			13.3
	PCB-1260	90.7	89.7	93.9			4.52
	Pendimethalin	58.8	90.2	102			12.2
	Permethrin	93.5	72.0	76.4			5.99
	Phenothrin	62.1	62.1	67.6			8.58
	Phenytoin	20.8	75.4	73.7			2.28
	Phorate	94.7	77.6	82.5			6.07
	Piperonyl Butoxide	103	92.5	90.2			2.53
	Prallethrin	76.5	72.6	75.7			4.20
	Prodiamine	75.6	114	134			16.5
	Prometon	72.5	112	137			20.5
	Prometryn	127	124	133			6.75
	Pronamide	104	105	111			6.31
	Propanil	87.2	86.5	92.0			6.21
	Propargite	139	145	148			2.20
	Propiconazole	75.4	136	138			0.877
	Pyraflufen Ethyl	133	129	136			4.81
	Pyridaben	142					14.5
	Pyriproxyfen	122	139	148			6.05
	Simazine	90.9					3.60
	Stirophos	84.6	84.7	94.0			10.4
	Sulfentrazone	43.6	128	105			16.1
	Tau-Fluvalinate	89.8	70.3	76.7			8.77

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Tebuconazole	20.7	40.7	40.6			0.332
	Terbufos	122	115	128			10.5
	Terbuthylazine	92.7	95.6	103			7.12
	Tetramethrin	73.7	80.9	79.5			1.73
	Thiobencarb	94.0	93.2	98.1			5.10
	Trans-Nonachlor	106	92.6	101			5.73
	Triadimefon	92.7	89.3	94.6			4.96
	Triclosan Methyl	103	108	107			0.628
	Trifluralin	88.1	85.8	81.6			5.00
EPA 8276	Chlordane	86.9	95.5	101			5.22
	Toxaphene	83.0	107	107			0.738
EPA 8321B	2,4-D	68.8	75.8	75.9			0.139
	2,4,5-T	52.3	59.0	59.4			0.624
	3-Hydroxycarbofuran	79.7	86.5	88.4			2.19
	Acesulfame K	98.9	101	101			0.497
	Acetaminophen	59.2	51.6	51.1			1.06
	Acetamiprid	93.4	96.7	101			4.42
	Afidopyropen	65.2	81.6	79.0			3.23
	Aldicarb	64.1	71.3	76.9			7.54
	Aldicarb Sulfone	89.3	98.0	101			2.78
	Aldicarb Sulfoxide	88.4	50.3	52.2			3.59
	AMPA	50.1	49.0	49.7			1.37
	Bentazon	98.3	99.5	99.3			0.156
	Benzovindiflupyr	95.3	88.2	86.7			1.76
	Carbamazepine	88.3	89.4	88.9			0.590
	Carbaryl	75.5	62.9	60.3			4.19
	Carbofuran	82.5	75.8	76.1			0.339
	Clothianidin	95.5	65.8	69.0			4.71
	Dinotefuran	93.7	92.8	96.4			3.84
	Diuron	84.1	78.0	86.7			10.6
	Endothall	108	175	183			4.30
	Fenuron	104	90.9	94.0			3.39
	Fluridone	82.2	80.9	81.7			1.00
	Glufosinate	75.2	68.1	61.6			10.0
	Glyphosate	65.2	56.7	57.7			1.66
	Hydrocodone	93.0	85.6	89.2			4.08
	Ibuprofen	59.1	59.9	61.9			3.18
	Imazapyr	86.2	73.6	77.6			4.67
	Imidacloprid	93.4	79.7	83.2			4.31
	Linuron	78.6	71.3	68.7			3.82
	Mandestrobin	80.7	76.6	78.4			2.26
	MCPP	73.2	77.1	77.9			0.961
	Methiocarb	69.6	64.2	69.2			7.40
	Methomyl	80.6	81.9	83.3			1.73
	Naproxen	62.2	65.7	62.7			4.65
	Oxamyl	90.6	92.4	96.4			4.21
	Primidone	85.3	68.7	74.5			8.16
	Propoxur	87.6	78.7	80.5			2.21
	Pyraclostrobin	79.1	72.9	77.3			5.85
	Silvex	44.1	58.4	53.6			8.68
	Sucralose	87.5	97.7	97.1			0.531
	Thiamethoxam	98.0	83.6	86.6			3.52
	Tolfenpyrad	52.2	44.0	46.8			6.09
	Triclopyr	51.7	63.2	59.0			6.80

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
SM 2320 B-2011	Total Alkalinity	99.6				0.591	
SM 2540 C-2011	TDS					5.46	
	TDS					9.30	
SM 4500-F- C-2011	Fluoride	99.4	106	107			0.490
SM 5310 B-2011	Organic Carbon	99.6	97.5	98.2			0.507

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2326621, 2326622
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2326621, 2326622
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2326698, 2326699
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2326698, 2326699
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2326621, 2326622
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2326621, 2326622
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2326623, 2326624
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2326623, 2326624
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2326623, 2326624
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2326623, 2326624
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2326625, 2326626
EPA 8270E	Analysis of Sunscreen Compounds in Water by GC/MS-SIM	2326644, 2326645
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2326642, 2326643
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2326644, 2326645
EPA 8270E	PCBs in water matrices by GC/MS/MS	2326642, 2326643
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2326642, 2326643
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2326635, 2326636
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2326637, 2326638
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2326621, 2326622
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2326698, 2326699
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2326621, 2326622
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2326621, 2326622
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2326621, 2326622
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2326623, 2326624

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	05/12/2022			05/12/2022 14:10	Anna M. Plaviak	2326621, 2326622
EPA 180.1 Rev. 2.0	05/12/2022			05/12/2022 13:21	Khloe J Berg	2326621
	05/12/2022			05/12/2022 13:22	Khloe J Berg	2326622
EPA 200.7 Rev. 4.4	05/12/2022	05/16/2022 10:10	Megan Whitefoot	05/18/2022 01:24	McKinley C Carter	2326698
	05/12/2022	05/16/2022 10:10	Megan Whitefoot	05/18/2022 01:31	McKinley C Carter	2326699
EPA 200.8 Rev. 5.4	05/12/2022	05/16/2022 10:10	Megan Whitefoot	05/18/2022 17:11	Alexander Thompson	2326698
	05/12/2022	05/16/2022 10:10	Megan Whitefoot	05/18/2022 17:20	Alexander Thompson	2326699
EPA 300.0 Rev. 2.1	05/12/2022			05/19/2022 03:31	Anna M. Plaviak	2326621
	05/12/2022			05/19/2022 03:44	Anna M. Plaviak	2326622
EPA 350.1 Rev. 2.0	05/12/2022			05/20/2022 10:21	Judith K. Clark	2326623
	05/12/2022			05/20/2022 10:23	Judith K. Clark	2326624
EPA 351.2 Rev. 2.0	05/12/2022	05/24/2022 09:04	Samantha L Bates	05/25/2022 11:05	Alexandra J Mattheus	2326624
	05/12/2022	05/25/2022 11:36	Samantha L Bates	05/25/2022 13:33	Alexandra J Mattheus	2326623
EPA 353.2 Rev. 2.0	05/12/2022			05/17/2022 11:20	Beverly Y. Sanders	2326623
	05/12/2022			05/23/2022 11:12	Beverly Y. Sanders	2326624
EPA 365.1 Rev. 2.0	05/12/2022	05/19/2022 14:04	Simonne.V. Calhoun	05/20/2022 12:39	Sarah A Nixon	2326623
	05/12/2022	05/19/2022 14:04	Simonne.V. Calhoun	05/20/2022 12:40	Sarah A Nixon	2326624
EPA 365.1 Rev. 2.0 dissolved	05/12/2022			05/12/2022 13:36	James L Waggerby	2326625
	05/12/2022			05/12/2022 13:37	James L Waggerby	2326626
EPA 8270E	05/12/2022	05/17/2022 08:00	Fe-Val Siddell	05/18/2022 21:24	Vandana T. Nagar	2326644
	05/12/2022	05/17/2022 08:00	Fe-Val Siddell	05/18/2022 21:51	Vandana T. Nagar	2326645
	05/12/2022	05/17/2022 08:00	Fe-Val Siddell	05/26/2022 17:19	Lipi Saha	2326644
	05/12/2022	05/17/2022 08:00	Fe-Val Siddell	05/26/2022 17:43	Lipi Saha	2326645
	05/12/2022	05/17/2022 08:00	Fe-Val Siddell	05/28/2022 00:13	Lipi Saha	2326644
	05/12/2022	05/18/2022 08:00	Fe-Val Siddell	05/20/2022 03:05	Arthur Maknenko	2326642
	05/12/2022	05/18/2022 08:00	Fe-Val Siddell	05/20/2022 03:35	Arthur Maknenko	2326643
	05/12/2022	05/18/2022 08:00	Fe-Val Siddell	05/21/2022 22:01	Michael Poppell	2326642
	05/12/2022	05/18/2022 08:00	Fe-Val Siddell	05/21/2022 22:30	Michael Poppell	2326643
	05/12/2022	05/18/2022 08:00	Fe-Val Siddell	05/25/2022 02:41	Michael Poppell	2326642
	05/12/2022	05/18/2022 08:00	Fe-Val Siddell	05/25/2022 03:11	Michael Poppell	2326643
	05/12/2022	05/18/2022 08:00	Fe-Val Siddell	05/27/2022 22:12	Michael Poppell	2326642
EPA 8276	05/12/2022	05/18/2022 08:00	Fe-Val Siddell	05/23/2022 13:09	Julie Wi	2326642
	05/12/2022	05/18/2022 08:00	Fe-Val Siddell	05/23/2022 14:04	Julie Wi	2326643
EPA 8321B	05/12/2022	05/16/2022 09:30	Manjita Shrestha	05/16/2022 12:20	Manjita Shrestha	2326637
	05/12/2022	05/16/2022 09:30	Manjita Shrestha	05/16/2022 12:50	Manjita Shrestha	2326638
	05/12/2022	05/16/2022 09:30	Manjita Shrestha	05/16/2022 14:53	Manjita Shrestha	2326637
	05/12/2022	05/16/2022 09:30	Manjita Shrestha	05/16/2022 15:32	Manjita Shrestha	2326638
	05/12/2022	05/16/2022 09:30	Manjita Shrestha	05/17/2022 16:48	Manjita Shrestha	2326637
	05/12/2022	05/16/2022 09:30	Manjita Shrestha	05/17/2022 18:44	Manjita Shrestha	2326638
	05/12/2022	05/16/2022 12:00	June Rhew	05/18/2022 23:29	Juyoung Kim	2326635

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	05/12/2022	05/16/2022 12:00	June Rhew	05/19/2022 00:04	Juyoung Kim	2326636
	05/12/2022	05/17/2022 09:30	June Rhew	05/19/2022 05:17	Juyoung Kim	2326637
	05/12/2022	05/17/2022 09:30	June Rhew	05/19/2022 06:27	Juyoung Kim	2326638
SM 2320 B-2011	05/12/2022			05/18/2022 19:43	Dale L. Simmons	2326621
	05/12/2022			05/18/2022 19:55	Dale L. Simmons	2326622
SM 2340 B-2011	05/12/2022			05/18/2022 01:24	McKinley C Carter	2326698
	05/12/2022			05/18/2022 01:31	McKinley C Carter	2326699
SM 2540 C-2011	05/12/2022			05/17/2022 14:19	Yijie Li	2326621
	05/12/2022			05/18/2022 09:49	Yijie Li	2326622
SM 2540 D-2011	05/12/2022			05/17/2022 14:19	Yijie Li	2326621
	05/12/2022			05/18/2022 09:49	Yijie Li	2326622
SM 4500-F- C-2011	05/12/2022			05/18/2022 19:43	Dale L. Simmons	2326621
	05/12/2022			05/18/2022 19:55	Dale L. Simmons	2326622
SM 5310 B-2011	05/12/2022			05/17/2022 03:54	Khloe J Berg	2326623
	05/12/2022			05/17/2022 04:08	Khloe J Berg	2326624