Chemical Analysis Report

TLH-ROC-2022-04-19-01

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

Event Description: **Run 12**
Request ID: **RQ-2022-03-07-33**
Customer: **TLH-ROC**
Project ID: **SMP**

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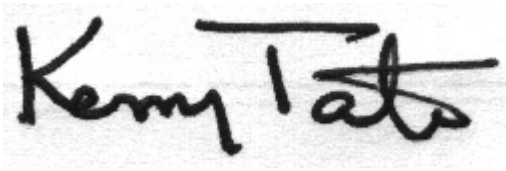
Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 11-MAY-2022 09:48



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: 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: Parker Bayou Continuous Monitoring **Collection Date/Time: 04/19/2022 10:35**

Field ID: G3TLHR0018 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2320403	EPA 180.1 Rev. 2.0	Turbidity	2.3		NTU	P412644	
	SM 2320 B-2011	Total Alkalinity	53		mg CaCO3/L	P413143	
	SM 2540 D-2011	TSS	4	I	mg/L	P413123	
	SM 4500-F- C-2011	Fluoride	0.46	I	mg F/L	P413150	
2320404	EPA 350.1 Rev. 2.0	Ammonia-N	0.014		mg N/L	P413084	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.39	I	mg N/L	P413004	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P412754	
	EPA 365.1 Rev. 2.0	Total-P	0.019		mg P/L	P412893	
	SM 5310 B-2011	Organic Carbon	7.3		mg C/L	P412872	
2320405	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P412635	

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

Sample Location: Parker Bayou @ Mouth **Collection Date/Time: 04/19/2022 10:45**

Field ID: G3TLHR0043 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2320406	EPA 180.1 Rev. 2.0	Turbidity	1.8		NTU	P412644	
	SM 2320 B-2011	Total Alkalinity	64		mg CaCO3/L	P413143	
	SM 2540 D-2011	TSS	4	I A	mg/L	P413124	
	SM 4500-F- C-2011	Fluoride	0.60		mg F/L	P413150	
2320407	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P413089	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.22	I	mg N/L	P413004	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P412754	
	EPA 365.1 Rev. 2.0	Total-P	0.012		mg P/L	P412893	
	SM 5310 B-2011	Organic Carbon	6.4		mg C/L	P412872	
2320408	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P412635	
2320423	EPA 8321B	Acesulfame K	0.10	U	ug/L	P412593	
		2,4-D	0.0077	I	ug/L	P412554	
		AMPA	10	U	ug/L	P412593	
		2,4,5-T	0.0040	U	ug/L	P412554	
		Acetaminophen	0.0080	U	ug/L	P412554	
		Endothall	0.25	U	ug/L	P412593	
		Acetamiprid	0.0020	U	ug/L	P412554	
		Glufosinate	10	U	ug/L	P412593	
		Glyphosate	10	U	ug/L	P412593	
		Afidopyropen	0.0020	U	ug/L	P412554	
		Sucralose	0.15		ug/L	P412593	
		Bentazon	8.0E-04	U	ug/L	P412554	
		Benzovindiflupyr	0.0020	U	ug/L	P412554	
		Carbamazepine	8.0E-04	U	ug/L	P412554	
		Clothianidin	0.0020	U	ug/L	P412554	
		Dinotefuran	0.0020	U	ug/L	P412554	
		Diuron	0.0020	U	ug/L	P412554	
		Fenuron	0.032	U	ug/L	P412554	
		Fluridone	8.0E-04	U	ug/L	P412554	
		Imazapyr	0.012	I	ug/L	P412554	
		Hydrocodone	0.0020	U	ug/L	P412554	
		Ibuprofen	0.020	U	ug/L	P412554	
		Imidacloprid	0.0020	U	ug/L	P412554	MS
		Linuron	0.0040	U	ug/L	P412554	
		Mandestrobin	0.0020	U	ug/L	P412554	
		MCPP	0.0020	U	ug/L	P412554	
		Naproxen	0.0080	U	ug/L	P412554	
		Primidone	0.0040	U	ug/L	P412554	
		Pyraclostrobin	0.0020	U	ug/L	P412554	
		Silvex	0.0040	U	ug/L	P412554	RPD
		Thiamethoxam	0.0020	U	ug/L	P412554	MS
		Tolfenpyrad	0.0020	U	ug/L	P412554	
		Triclopyr	0.0040	U	ug/L	P412554	

Field ID: G3TLHR0043 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes

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: Some MDLs are elevated due to required dilution of sample matrix.

Sample Location: Parker Creek @ Park **Collection Date/Time: 04/19/2022 11:20**

Field ID: G3TLHR0040 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2320400	DEP SOP: NU-094-1	Color (true)**	36	A	PCU	P412745	
	EPA 180.1 Rev. 2.0	Turbidity	4.2		NTU	P412644	
	EPA 300.0 Rev. 2.1	Chloride	8.5		mg Cl/L	P412954	
		Sulfate	17		mg SO4/L	P412957	
	SM 2320 B-2011	Total Alkalinity	23		mg CaCO3/L	P413183	
	SM 2540 C-2011	TDS	76		mg/L	P413194	
	SM 2540 D-2011	TSS	2	I	mg/L	P413197	
	SM 4500-F- C-2011	Fluoride	0.052	I	mg F/L	P413188	
2320401	EPA 350.1 Rev. 2.0	Ammonia-N	0.024		mg N/L	P413070	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.22		mg N/L	P413129	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.079		mg N/L	P412752	
	EPA 365.1 Rev. 2.0	Total-P	0.016		mg P/L	P412800	
	SM 5310 B-2011	Organic Carbon	5.0		mg C/L	P412814	
2320402	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	I	mg P/L	P412634	
2320421	EPA 8321B	Aldicarb	0.020	UJ	ug/L	P412784	RPD
		Aldicarb Sulfone	0.0020	U	ug/L	P412784	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P412784	
		Carbaryl	0.0020	U	ug/L	P412784	
		Carbofuran	0.0020	U	ug/L	P412784	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P412784	
		Methiocarb	0.0020	U	ug/L	P412784	
		Methomyl	0.0020	U	ug/L	P412784	
		Oxamyl	0.0020	U	ug/L	P412784	
		Propoxur	0.0020	U	ug/L	P412784	
2320422		2,4-D	0.090		ug/L	P412554	
		Acesulfame K	0.14	I	ug/L	P412593	
		2,4,5-T	0.0040	U	ug/L	P412554	
		AMPA	0.10	U	ug/L	P412593	
		Acetaminophen	0.0080	U	ug/L	P412554	
		Acetamiprid	0.0020	U	ug/L	P412554	
		Endothall	0.25	U	ug/L	P412593	
		Glufosinate	0.10	U	ug/L	P412593	
		Glyphosate	0.10	U	ug/L	P412593	
		Afidopyropen	0.0020	U	ug/L	P412554	
		Bentazon	0.035		ug/L	P412554	
		Sucralose	0.24		ug/L	P412593	
		Benzovindiflupyr	0.0020	U	ug/L	P412554	
		Carbamazepine	8.0E-04	U	ug/L	P412554	
		Clothianidin	0.0020	U	ug/L	P412554	
		Dinotefuran	0.0020	U	ug/L	P412554	
		Diuron	0.0020	U	ug/L	P412554	
		Fenuron	0.032	U	ug/L	P412554	
		Fluridone	8.0E-04	U	ug/L	P412554	

Field ID: G3TLHR0040 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2320422	EPA 8321B	Imazapyr	0.033		ug/L	P412554	
		Hydrocodone	0.0020	U	ug/L	P412554	
		Ibuprofen	0.020	U	ug/L	P412554	
		Imidacloprid	0.022		ug/L	P412554	MS
		Linuron	0.0040	U	ug/L	P412554	
		Mandestrobin	0.0020	U	ug/L	P412554	
		MCPP	0.028		ug/L	P412554	
		Naproxen	0.0080	U	ug/L	P412554	
		Primidone	0.0040	U	ug/L	P412554	
		Pyraclostrobin	0.0020	U	ug/L	P412554	
		Silvex	0.0040	U	ug/L	P412554	RPD
		Thiamethoxam	0.0020	U	ug/L	P412554	MS
		Tolfenpyrad	0.0020	U	ug/L	P412554	
		Triclopyr	0.0040	U	ug/L	P412554	
2320424	EPA 8270E	Aldrin	0.66	U	ng/L	P412577	
		Alpha-BHC	0.10	U	ng/L	P412577	
		Alpha-Chlordane	0.20	U	ng/L	P412577	RPD
		Beta-BHC	0.10	U	ng/L	P412577	
		Beta-Cyfluthrin**	1.3	U	ng/L	P412577	
		Bifenthrin**	0.51	U	ng/L	P412577	
		Chlorothalonil	1.3	U	ng/L	P412577	
		Cis-Nonachlor**	0.20	U	ng/L	P412577	RPD
		Cypermethrin	1.5	U	ng/L	P412577	
		Dacthal**	0.15	U	ng/L	P412577	
		DDD-p,p'	0.26	U	ng/L	P412577	
		DDE-p,p'	0.20	U	ng/L	P412577	
		DDT-p,p'	0.26	U	ng/L	P412577	
		Delta-BHC	0.41	U	ng/L	P412577	
		Deltamethrin**	1.3	U	ng/L	P412577	
		Dichlobenil**	0.26	U	ng/L	P412577	
		Dicofol	1.3	U	ng/L	P412577	
		Dieldrin	0.41	U	ng/L	P412577	
		Endosulfan I	0.41	U	ng/L	P412577	
		Endosulfan II	0.41	U	ng/L	P412577	
		Endosulfan Sulfate	0.31	U	ng/L	P412577	
		Endrin	0.41	U	ng/L	P412577	
		Endrin Aldehyde	0.77	U	ng/L	P412577	
		Endrin Ketone	0.41	U	ng/L	P412577	
		Esfenvalerate**	0.77	U	ng/L	P412577	
		Ethalfluralin**	0.15	U	ng/L	P412577	
		Fenpropathrin**	0.26	U	ng/L	P412577	
		Gamma-BHC	0.13	U	ng/L	P412577	MS
		Gamma-Chlordane	0.20	U	ng/L	P412577	RPD
		Heptachlor	0.20	U	ng/L	P412577	
		Heptachlor Epoxide	0.26	U	ng/L	P412577	

Field ID: G3TLHR0040 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2320424	EPA 8270E	Hexachlorobenzene**	1.0	U	ng/L	P412577	
		Kepone**	5.1	U	ng/L	P412577	
		Lambda-Cyhalothrin**	0.77	U	ng/L	P412577	
		Methoprene**	0.77	U	ng/L	P412577	
		Methoxychlor	0.31	U	ng/L	P412577	
		MGK-264**	0.20	U	ng/L	P412577	
		Mirex	0.72	U	ng/L	P412577	
		Oxychlordane**	0.31	U	ng/L	P412577	
		Permethrin	1.6	U	ng/L	P412577	
		Phenothrin**	0.92	U	ng/L	P412577	
		Piperonyl Butoxide**	0.15	U	ng/L	P412577	
		Prallethrin**	2.0	U	ng/L	P412577	
		Tau-Fluvalinate**	0.26	U	ng/L	P412577	
		Tetramethrin**	0.77	U	ng/L	P412577	
		Trans-Nonachlor**	0.20	U	ng/L	P412577	
		Triclosan Methyl**	0.15	U	ng/L	P412577	RPD
		Trifluralin	0.20	U	ng/L	P412577	
	EPA 8276	Chlordane	2.6	UJ	ng/L	P412577	SUR
		Toxaphene	15	UJ	ng/L	P412577	SUR
2320425	EPA 8270E	Acetochlor	0.25	U	ng/L	P412654	
		Alachlor	0.25	U	ng/L	P412654	
		Ametryn	0.60	U	ng/L	P412654	
		Atrazine	6.5		ng/L	P412654	
		Atrazine Desethyl	1.5	U	ng/L	P412654	
		Azinphos Methyl	2.0	U	ng/L	P412654	
		Azoxystrobin**	0.50	U	ng/L	P412654	
		Bromacil	4.5		ng/L	P412654	
		Butylate	0.40	U	ng/L	P412654	
		Caffeine**	64		ng/L	P412654	
		Carbophenothion	0.20	U	ng/L	P412654	
		Carfentrazone Ethyl**	0.099	U	ng/L	P412654	
		Chlorfenapyr**	0.17	U	ng/L	P412654	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P412654	
		Chlorpyrifos Methyl	0.050	U	ng/L	P412654	
		Coumaphos**	0.50	U	ng/L	P412654	
		Cyanazine	3.2	U	ng/L	P412654	
		Cyprodinil**	0.099	U	ng/L	P412654	
		Demeton	1.5	U	ng/L	P412654	
		Diazinon	0.12	U	ng/L	P412654	
		Difenoconazole**	0.60	U	ng/L	P412654	
		Dimethenamid**	0.099	U	ng/L	P412654	
		Dimethomorph**	0.17	U	ng/L	P412654	
		Disulfoton	0.50	U	ng/L	P412654	
		Dithiopyr**	0.17	U	ng/L	P412654	
		EPTC	1.2	U	ng/L	P412654	

Field ID: G3TLHR0040 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2320425	EPA 8270E	Ethion	0.15	U	ng/L	P412654	
		Ethoprop	0.099	U	ng/L	P412654	
		Etridiazole**	0.15	U	ng/L	P412654	
		Fenamiphos	0.50	U	ng/L	P412654	
		Fenbuconazole**	0.12	U	ng/L	P412654	
		Fipronil	0.25	U	ng/L	P412654	
		Fipronil Desulfinyl**	0.12	U	ng/L	P412654	
		Fipronil Sulfide	0.33	I	ng/L	P412654	
		Fipronil Sulfone	0.94		ng/L	P412654	
		Fluazifop-P-butyl**	0.099	U	ng/L	P412654	
		Fludioxonil**	0.12	U	ng/L	P412654	
		Flumioxazin**	1.7	U	ng/L	P412654	
		Flutolanil**	0.099	U	ng/L	P412654	
		Fluxapyroxad**	0.099	U	ng/L	P412654	
		Fonofos	0.20	U	ng/L	P412654	
		Hexazinone	0.50	U	ng/L	P412654	
		Imazalil**	0.75	U	ng/L	P412654	MS
		Iprodione**	0.60	U	ng/L	P412654	MS
		Loratadine**	0.099	U	ng/L	P412654	
		Malathion	0.35	U	ng/L	P412654	
		Metalaxyl	0.75	U	ng/L	P412654	
		Metolachlor	0.35	U	ng/L	P412654	
		Metribuzin	2.5	U	ng/L	P412654	
		Mevinphos	1.0	U	ng/L	P412654	
		Molinate	0.30	U	ng/L	P412654	
		Myclobutanil**	0.25	U	ng/L	P412654	
		Naled**	1.5	U	ng/L	P412654	
		Napropamide**	0.40	U	ng/L	P412654	
		Norflurazon	0.50	U	ng/L	P412654	
		Oxadiazon	0.58	I	ng/L	P412654	
		Oxyfluorfen**	0.15	U	ng/L	P412654	
		Parathion Ethyl	0.25	U	ng/L	P412654	
		Parathion Methyl	0.55	U	ng/L	P412654	
		Pendimethalin	0.99	U	ng/L	P412654	
		Phenytoin**	3.5	U	ng/L	P412654	
		Phorate	0.52	U	ng/L	P412654	
		Prodiamine**	0.27	I	ng/L	P412654	
		Prometon	0.89	U	ng/L	P412654	
		Prometryn	0.20	U	ng/L	P412654	
		Pronamide**	0.15	U	ng/L	P412654	
		Propanil**	0.12	U	ng/L	P412654	
		Propargite**	1.5	U	ng/L	P412654	
		Propiconazole**	0.50	U	ng/L	P412654	
		Pyraflufen Ethyl**	0.25	U	ng/L	P412654	
		Pyridaben**	0.45	U	ng/L	P412654	

Field ID: G3TLHR0040 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2320425	EPA 8270E	Pyriproxyfen**	0.12	U	ng/L	P412654	
		Simazine	0.75	I	ng/L	P412654	
		Stirophos**	0.12	U	ng/L	P412654	
		Sulfentrazone**	3.6		ng/L	P412654	
		Tebuconazole**	1.4	I	ng/L	P412654	
		Terbufos	0.099	U	ng/L	P412654	
		Terbuthylazine	0.42	U	ng/L	P412654	
		Thiobencarb**	0.60	U	ng/L	P412654	
		Triadimefon**	0.25	U	ng/L	P412654	

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: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8276: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Watson Bayou South **Collection Date/Time: 04/19/2022 12:00**

Field ID: G3TLHR0006 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2320394	EPA 180.1 Rev. 2.0	Turbidity	0.85	I	NTU	P412644	
	SM 2320 B-2011	Total Alkalinity	85	A	mg CaCO3/L	P413143	
	SM 2540 D-2011	TSS	3	I	mg/L	P413123	
	SM 4500-F- C-2011	Fluoride	0.80		mg F/L	P413150	
2320396	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	I	mg N/L	P412709	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.20	I	mg N/L	P413004	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P412754	
	EPA 365.1 Rev. 2.0	Total-P	0.01	I	mg P/L	P412893	
	SM 5310 B-2011	Organic Carbon	4.4		mg C/L	P412872	
2320398	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P412635	

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

Sample Location: Watson Bayou North ENCOC **Collection Date/Time: 04/19/2022 12:25**

Field ID: G3TLHR0016 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2320395	EPA 180.1 Rev. 2.0	Turbidity	2.3		NTU	P412644	
	SM 2320 B-2011	Total Alkalinity	89		mg CaCO3/L	P413143	
	SM 2540 D-2011	TSS	5	I	mg/L	P413123	
	SM 4500-F- C-2011	Fluoride	0.78		mg F/L	P413150	
2320397	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P413084	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.28	I	mg N/L	P413004	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P412754	
	EPA 365.1 Rev. 2.0	Total-P	0.019		mg P/L	P412893	
	SM 5310 B-2011	Organic Carbon	4.8		mg C/L	P412872	
2320399	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P412635	

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

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P412745

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P412644

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P412954

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P412957

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P412709

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413070

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413084

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413004

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413129

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P412752

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P412754

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P412800

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P412893

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P412634

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P412635

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

Reference Method: EPA 8270E
Batch ID: P412577

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P412577

Component	Result	Code	Units
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
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P412577

Component	Result	Code	Units
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.70	U	ng/L
Mirex	0.70	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8270E
Batch ID: P412654

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P412654

Component	Result	Code	Units
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P412654

Component	Result	Code	Units
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytoin	3.5	U	ng/L
Phenytoin	3.5	U	ng/L
Phorate	0.52	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P412654

Component	Result	Code	Units
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
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: P412577

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: P412554

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P412554

Component	Result	Code	Units
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.089		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	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P412593

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

Reference Method: EPA 8321B
Batch ID: P412784

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

Quality Assurance Report
Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P413143

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

Reference Method: SM 2320 B-2011
Batch ID: P413183

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

Reference Method: SM 2540 C-2011
Batch ID: P413194

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P413123

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P413124

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P413197

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P413150

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P413188

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P412814

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

Quality Assurance Report
Method Blank Results

Reference Method: SM 5310 B-2011
Batch ID: P412872

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: P412745

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P412644

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P412954

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P412957

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P412709

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413070

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413084

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413004

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	108		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413129

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P412752

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P412754

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P412800

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P412893

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: P412634

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.3		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P412635

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

Reference Method: EPA 8270E
Batch ID: P412577

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	49.7		P	10 - 93.0
Alpha-BHC	96.7		P	75 - 106
Alpha-Chlordane	72.7		P	50 - 109
Beta-BHC	123		P	36 - 138
Beta-Cyfluthrin	61.1		P	23 - 167
Bifenthrin	47.1		P	11 - 123
Chlorothalonil	66.9		P	27 - 190
Cis-Nonachlor	78.2		P	40 - 111
Cypermethrin	65.4		P	25 - 155
Dacthal	85.2		P	72 - 119
DDD-p,p'	74.0		P	47 - 108
DDE-p,p'	74.5		P	48 - 107
DDT-p,p'	71.4		P	49 - 111
Delta-BHC	130		P	54 - 138
Deltamethrin	73.4		P	22 - 189
Dichlobenil	92.2		P	32 - 113

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P412577

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dicofol	70.9		P	50 - 108
Dieldrin	75.1		P	56 - 110
Endosulfan I	79.9		P	60 - 105
Endosulfan II	82.4		P	50 - 120
Endosulfan Sulfate	92.5		P	55 - 121
Endrin	77.4		P	31 - 119
Endrin Aldehyde	92.6		P	36 - 116
Endrin Ketone	105		P	69 - 177
Esfenvalerate	67.0		P	10 - 179
Ethalfluralin	72.2		P	49 - 99.0
Fenpropathrin	56.1		P	35 - 119
Gamma-BHC	111		P	69 - 120
Gamma-Chlordane	66.8		P	45 - 107
Heptachlor	61.4		P	41 - 100
Heptachlor Epoxide	80.4		P	58 - 106
Hexachlorobenzene	79.7		P	39 - 100
Kepone	144		P	10 - 191
Lambda-Cyhalothrin	57.0		P	21 - 206
Methoprene	50.3		P	10 - 129
Methoxychlor	74.5		P	61 - 111
MGK-264	77.0		P	20 - 123
Mirex	52.1		P	10 - 182
Oxychlordane	64.7		P	39 - 110
Permethrin	74.2		P	26 - 152
Phenothrin	67.6		P	10 - 109
Piperonyl Butoxide	92.6		P	19 - 147
Prallethrin	70.4		P	14 - 109
Tau-Fluvalinate	60.5		P	16 - 134
Tetramethrin	68.5		P	10 - 125
Trans-Nonachlor	70.1		P	45 - 107
Triclosan Methyl	88.8		P	60 - 110
Trifluralin	61.0		P	44 - 101

Reference Method: EPA 8270E
Batch ID: P412654

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	78.6		P	70 - 121
Alachlor	72.3		P	68 - 119
Ametryn	69.0		P	64 - 139
Atrazine	85.3		P	76 - 120
Atrazine Desethyl	47.7		P	44 - 126
Azinphos Methyl	115		P	43 - 192
Azoxystrobin	81.0		P	36 - 224
Bromacil	68.8		P	52 - 121
Butylate	48.8		P	28 - 91.0
Caffeine	98.8		P	50 - 134
Carbophenothion	97.9		P	56 - 129
Carfentrazone Ethyl	87.0		P	60 - 141
Chlorfenapyr	77.2		P	56 - 115
Chlorpyrifos Ethyl	93.2		P	60 - 118
Chlorpyrifos Methyl	103		P	68 - 119

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P412654

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Coumaphos	111		P	18 - 250
Cyanazine	91.1		P	61 - 250
Cyprodinil	71.6		P	55 - 145
Demeton	73.1		P	30 - 159
Diazinon	77.0		P	70 - 123
Difenoconazole	109		P	49 - 204
Dimethenamid	64.8		P	64 - 115
Dimethomorph	61.0		P	12 - 219
Disulfoton	83.7		P	44 - 125
Dithiopyr	78.5		P	64 - 115
EPTC	45.9		P	28 - 86.0
Ethion	84.0		P	33 - 125
Ethoprop	69.9		P	64 - 116
Etridiazole	53.0		P	34 - 91.0
Fenamiphos	103		P	12 - 127
Fenbuconazole	84.2		P	59 - 151
Fipronil	77.2		P	67 - 129
Fipronil Desulfinyl	76.1		P	65 - 127
Fipronil Sulfide	76.6		P	61 - 116
Fipronil Sulfone	93.9		P	55 - 117
Fluazifop-P-butyl	79.4		P	62 - 127
Fludioxonil	78.4		P	62 - 128
Flumioxazin	138		P	33 - 250
Flutolanil	79.0		P	56 - 127
Fluxapyroxad	94.6		P	45 - 128
Fonofos	74.1		P	62 - 111
Hexazinone	84.6		P	46 - 139
Imazalil	63.0		P	38 - 142
Iprodione	108		P	47 - 135
Loratadine	54.5		P	10 - 244
Malathion	108		P	61 - 139
Metalaxyl	69.5		P	10 - 119
Metolachlor	76.9		P	65 - 118
Metribuzin	77.1		P	51 - 250
Mevinphos	53.0		P	53 - 121
Molinate	59.2		P	42 - 96.0
Myclobutanil	78.0		P	55 - 128
Naled	88.1		P	10 - 98.0
Napropamide	72.9		P	49 - 121
Norflurazon	76.2		P	61 - 126
Oxadiazon	72.1		P	59 - 116
Oxyfluorfen	85.9		P	64 - 137
Parathion Ethyl	86.0		P	70 - 112
Parathion Methyl	94.5		P	76 - 133
Pendimethalin	81.9		P	52 - 117
Phenytoin	63.4		P	10 - 199
Phorate	61.2		P	48 - 121
Prodiamine	93.4		P	26 - 142
Prometon	72.9		P	43 - 123
Prometryn	70.3		P	66 - 127
Pronamide	76.9		P	75 - 121
Propanil	76.9		P	45 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P412654

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Propargite	97.8		P	42 - 208
Propiconazole	81.2		P	60 - 125
Pyraflufen Ethyl	87.6		P	70 - 138
Pyridaben	105		P	35 - 245
Pyriproxyfen	99.9		P	30 - 149
Simazine	83.4		P	72 - 125
Stirophos	101		P	29 - 164
Sulfentrazone	72.9		P	21 - 139
Tebuconazole	91.2		P	10 - 115
Terbufos	92.8		P	60 - 123
Terbuthylazine	74.2		P	72 - 115
Thiobencarb	77.1		P	31 - 139
Triadimefon	65.7		P	65 - 116

Reference Method: EPA 8276
Batch ID: P412577

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	88.6		P	61 - 118
Toxaphene	94.9		P	51 - 122

Reference Method: EPA 8321B
Batch ID: P412554

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	90.5		P	30 - 160
2,4,5-T	105		P	30 - 160
Acetaminophen	88.1		P	30 - 150
Acetamiprid	104		P	30 - 160
Afidopyropen	72.8		P	30 - 160
Bentazon	59.1		P	30 - 150
Benzovindiflupyr	96.1		P	30 - 160
Carbamazepine	110		P	30 - 160
Clothianidin	108		P	30 - 160
Dinotefuran	104		P	30 - 160
Diuron	98.4		P	30 - 160
Fenuron	103		P	30 - 160
Fluridone	95.6		P	30 - 160
Hydrocodone	101		P	30 - 160
Ibuprofen	80.8		P	30 - 160
Imazapyr	98.9		P	30 - 160
Imidacloprid	104		P	30 - 160
Linuron	82.4		P	30 - 160
Mandestrobin	104		P	30 - 160
MCPP	116		P	30 - 160
Naproxen	112		P	30 - 160
Primidone	108		P	30 - 160
Pyraclostrobin	101		P	30 - 160
Silvex	106		P	30 - 160
Thiamethoxam	104		P	30 - 160
Tolfenpyrad	63.4		P	30 - 160
Triclopyr	112		P	30 - 160

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P412593

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	103		P	40 - 150
AMPA	99.6		P	40 - 150
Endothall	94.6		P	40 - 150
Glufosinate	96.6		P	40 - 150
Glyphosate	92.9		P	40 - 150
Sucralose	92.3		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P412784

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	57.2		P	30 - 160
Aldicarb	44.9		P	30 - 150
Aldicarb Sulfone	85.9		P	30 - 160
Aldicarb Sulfoxide	91.5		P	30 - 160
Carbaryl	82.6		P	30 - 160
Carbofuran	84.8		P	30 - 160
Methiocarb	79.9		P	30 - 160
Methomyl	85.7		P	30 - 160
Oxamyl	86.5		P	30 - 160
Propoxur	80.7		P	30 - 160

Reference Method: SM 2320 B-2011
Batch ID: P413143

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.0		P	94 - 106

Reference Method: SM 2320 B-2011
Batch ID: P413183

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.9		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P413150

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.6		P	93 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P413188

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P412814

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.0		P	85 - 115

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P412872

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.6		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P412954

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2320050	Chloride	101		P	90 - 110
2320486	Chloride	99.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P412957

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2320050	Sulfate	96.7		P	90 - 110
2320486	Sulfate	99.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P412709

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2320396	Ammonia-N	98.8	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413070

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322208	Ammonia-N	99.6	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413084

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2320397	Ammonia-N	99.2	99.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413004

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2319961	Kjeldahl Nitrogen	101	97.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413129

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2320365	Kjeldahl Nitrogen	104	95.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P412752

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2320401	NO2NO3-N	97.8	98.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P412754

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2320396	NO2NO3-N	99.5	98.5	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P412800

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2320437	Total-P	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P412893

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2320396	Total-P	96.1	98.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P412634

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2320402	O-Phosphate-P	97.0	98.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P412635

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2320398	O-Phosphate-P	99.2	99.1	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P412577

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2319826	Aldrin	70.4	61.5	P/P	10 - 89.0
2319826	Alpha-BHC	97.4	103	P/P	71 - 105
2319826	Alpha-Chlordane	90.3	64.4	P/P	43 - 107
2319826	Beta-BHC	120	114	P/P	57 - 152
2319826	Beta-Cyfluthrin	91.5	70.9	P/P	29 - 186
2319826	Bifenthrin	65.8	60.3	P/P	19 - 119
2319826	Chlorothalonil	102	99.8	P/P	10 - 245
2319826	Cis-Nonachlor	100	71.8	P/P	36 - 110
2319826	Cypermethrin	102	80.8	P/P	24 - 169
2319826	Dacthal	102	82.2	P/P	62 - 115
2319826	DDD-p,p'	92.9	74.4	P/P	36 - 109
2319826	DDE-p,p'	97.6	76.4	P/P	30 - 114
2319826	DDT-p,p'	78.4	77.0	P/P	42 - 108
2319826	Delta-BHC	120	119	P/P	60 - 164
2319826	Deltamethrin	107	88.6	P/P	10 - 210
2319826	Dichlobenil	73.0	73.8	P/P	23 - 108
2319826	Dicofol	69.8	73.7	P/P	44 - 109
2319826	Dieldrin	90.4	71.6	P/P	37 - 119
2319826	Endosulfan I	93.1	77.6	P/P	52 - 105
2319826	Endosulfan II	87.4	70.4	P/P	35 - 127
2319826	Endosulfan Sulfate	102	80.0	P/P	39 - 130
2319826	Endrin	85.0	70.1	P/P	30 - 116
2319826	Endrin Aldehyde	86.0	63.9	P/P	20 - 110
2319826	Endrin Ketone	98.0	99.0	P/P	48 - 134
2319826	Esfenvalerate	98.2	81.3	P/P	10 - 199
2319826	Ethalfluralin	93.8	82.1	P/P	48 - 95.0
2319826	Fenpropathrin	68.7	77.0	P/P	37 - 121
2319826	Gamma-BHC	108	127	P/F	61 - 126

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P412577

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2319826	Gamma-Chlordane	90.1	58.1	P/P	39 - 105
2319826	Heptachlor	81.8	72.2	P/P	38 - 96.0
2319826	Heptachlor Epoxide	96.6	89.6	P/P	42 - 114
2319826	Hexachlorobenzene	84.7	72.9	P/P	39 - 93.0
2319826	Kepone	113	103	P/P	10 - 215
2319826	Lambda-Cyhalothrin	89.0	76.1	P/P	10 - 204
2319826	Methoprene	92.7	71.0	P/P	17 - 108
2319826	Methoxychlor	65.6	86.3	P/P	56 - 115
2319826	MGK-264	93.3	91.6	P/P	35 - 120
2319826	Mirex	71.4	66.0	P/P	10 - 178
2319826	Oxychlordane	82.6	74.2	P/P	47 - 91.0
2319826	Permethrin	113	86.1	P/P	27 - 170
2319826	Phenothrin	88.8	63.9	P/P	10 - 133
2319826	Piperonyl Butoxide	108	98.0	P/P	23 - 150
2319826	Prallethrin	92.4	74.5	P/P	21 - 113
2319826	Tau-Fluvalinate	83.5	68.7	P/P	16 - 158
2319826	Tetramethrin	91.5	94.8	P/P	22 - 132
2319826	Trans-Nonachlor	86.5	68.3	P/P	43 - 102
2319826	Triclosan Methyl	93.5	62.6	P/P	49 - 109
2319826	Trifluralin	84.8	81.7	P/P	48 - 93.0

Reference Method: EPA 8270E
Batch ID: P412654

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2321252	Acetochlor	92.8	87.9	P/P	65 - 124
2321252	Alachlor	77.2	76.5	P/P	61 - 121
2321252	Ametryn	87.2	78.0	P/P	52 - 216
2321252	Atrazine	91.1	91.4	P/P	68 - 133
2321252	Atrazine Desethyl	51.6	49.1	P/P	15 - 160
2321252	Azinphos Methyl	134	134	P/P	40 - 292
2321252	Azoxystrobin	92.3	83.4	P/P	12 - 242
2321252	Bromacil	77.9	74.6	P/P	54 - 167
2321252	Butylate	56.2	54.4	P/P	14 - 94.0
2321252	Caffeine	92.0	96.4	P/P	10 - 226
2321252	Carbophenothion	102	107	P/P	49 - 122
2321252	Carfentrazone Ethyl	109	113	P/P	53 - 138
2321252	Chlorfenapyr	78.4	76.3	P/P	50 - 150
2321252	Chlorpyrifos Ethyl	87.4	81.3	P/P	52 - 122
2321252	Chlorpyrifos Methyl	109	96.9	P/P	66 - 117
2321252	Coumaphos	134	131	P/P	50 - 220
2321252	Cyanazine	105	105	P/P	43 - 245
2321252	Cyprodinil	82.0	81.6	P/P	50 - 150
2321252	Demeton	82.6	79.2	P/P	43 - 188
2321252	Diazinon	93.0	97.3	P/P	69 - 131
2321252	Difenoconazole	132	139	P/P	34 - 231
2321252	Dimethenamid	77.6	75.5	P/P	55 - 118
2321252	Dimethomorph	74.8	70.2	P/P	50 - 150
2321252	Disulfoton	89.8	93.6	P/P	38 - 141
2321252	Dithiopyr	100	90.4	P/P	42 - 116
2321252	EPTC	45.3	49.6	P/P	18 - 85.0
2321252	Ethion	87.2	83.1	P/P	10 - 131

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P412654

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2321252	Ethoprop	93.3	97.6	P/P	65 - 129
2321252	Etridiazole	62.3	58.4	P/P	50 - 150
2321252	Fenamiphos	95.8	89.8	P/P	31 - 137
2321252	Fenbuconazole	98.9	100	P/P	57 - 160
2321252	Fipronil	94.9	94.7	P/P	62 - 132
2321252	Fipronil Desulfinyl	105	95.4	P/P	57 - 131
2321252	Fipronil Sulfide	80.1	84.2	P/P	15 - 138
2321252	Fipronil Sulfone	98.9	98.3	P/P	21 - 134
2321252	Fluazifop-P-butyl	87.6	101	P/P	54 - 133
2321252	Fludioxonil	85.3	93.9	P/P	58 - 127
2321252	Flumioxazin	183	181	P/P	33 - 300
2321252	Flutolanil	86.3	85.3	P/P	42 - 130
2321252	Fluxapyroxad	139	140	P/P	23 - 141
2321252	Fonofos	91.5	91.3	P/P	58 - 119
2321252	Hexazinone	102	94.3	P/P	68 - 172
2321252	Imazalil	43.8	51.5	F/P	48 - 283
2321252	Iprodione	147	150	F/F	38 - 140
2321252	Loratadine	73.8	64.0	P/P	50 - 150
2321252	Malathion	109	101	P/P	40 - 137
2321252	Metalaxyl	81.9	74.8	P/P	21 - 129
2321252	Metolachlor	84.1	80.3	P/P	55 - 122
2321252	Metribuzin	96.0	83.8	P/P	38 - 187
2321252	Mevinphos	76.9	86.5	P/P	54 - 134
2321252	Molinate	71.6	69.8	P/P	41 - 97.0
2321252	Myclobutanil	92.8	95.1	P/P	56 - 125
2321252	Naled	88.8	84.2	P/P	10 - 108
2321252	Napropamide	71.5	70.8	P/P	50 - 150
2321252	Norflurazon	98.1	103	P/P	32 - 122
2321252	Oxadiazon	64.7	64.8	P/P	40 - 119
2321252	Oxyfluorfen	113	115	P/P	61 - 153
2321252	Parathion Ethyl	90.7	89.3	P/P	59 - 130
2321252	Parathion Methyl	111	100	P/P	65 - 155
2321252	Pendimethalin	108	106	P/P	49 - 138
2321252	Phenytoin	81.3	84.2	P/P	50 - 200
2321252	Phorate	75.0	73.6	P/P	54 - 161
2321252	Prodiamine	159	151	P/P	33 - 161
2321252	Prometon	82.4	78.1	P/P	48 - 140
2321252	Prometryn	80.9	78.3	P/P	55 - 134
2321252	Pronamide	101	90.8	P/P	66 - 137
2321252	Propanil	86.6	78.6	P/P	50 - 150
2321252	Propargite	118	114	P/P	50 - 200
2321252	Propiconazole	108	103	P/P	36 - 150
2321252	Pyraflufen Ethyl	112	118	P/P	50 - 150
2321252	Pyridaben	115	110	P/P	50 - 200
2321252	Pyriproxyfen	117	114	P/P	10 - 165
2321252	Simazine	94.6	88.9	P/P	57 - 145
2321252	Stirophos	98.9	93.1	P/P	50 - 150
2321252	Sulfentrazone	121	124	P/P	34 - 140
2321252	Tebuconazole	112	115	P/P	10 - 127
2321252	Terbufos	107	110	P/P	59 - 138
2321252	Terbuthylazine	82.8	86.5	P/P	68 - 119
2321252	Thiobencarb	85.7	83.0	P/P	50 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P412654

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2321252	Triadimefon	71.9	73.2	P/P	50 - 150

Reference Method: EPA 8276
Batch ID: P412577

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2319836	Chlordane	88.9	89.8	P/P	55 - 128
2319836	Toxaphene	106	99.4	P/P	57 - 211

Reference Method: EPA 8321B
Batch ID: P412554

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2319995	2,4-D	108	84.5	P/P	30 - 160
2319995	2,4,5-T	109	82.1	P/P	30 - 160
2319995	Acetaminophen	97.0	80.2	P/P	30 - 150
2319995	Acetamiprid	115	102	P/P	30 - 160
2319995	Afidopyropen	80.9	76.6	P/P	30 - 160
2319995	Bentazon	39.7	31.9	P/P	30 - 150
2319995	Benzovindiflupyr	88.7	76.5	P/P	30 - 160
2319995	Carbamazepine	102	88.3	P/P	30 - 160
2319995	Clothianidin	130	110	P/P	30 - 160
2319995	Dinotefuran	128	115	P/P	30 - 160
2319995	Diuron	84.0	73.4	P/P	30 - 160
2319995	Fenuron	87.8	77.7	P/P	30 - 160
2319995	Fluridone	90.0	75.0	P/P	30 - 160
2319995	Hydrocodone	110	89.0	P/P	30 - 160
2319995	Ibuprofen	76.8	68.1	P/P	30 - 160
2319995	Imazapyr	112	90.0	P/P	30 - 160
2319995	Imidacloprid	184	159	F/P	30 - 160
2319995	Linuron	70.8	64.4	P/P	30 - 160
2319995	Mandestrobin	95.0	81.5	P/P	30 - 160
2319995	MCPP	129	98.5	P/P	30 - 160
2319995	Naproxen	92.3	86.1	P/P	30 - 160
2319995	Primidone	106	105	P/P	30 - 160
2319995	Pyraclostrobin	97.7	80.9	P/P	30 - 160
2319995	Silvex	113	80.5	P/P	30 - 160
2319995	Thiamethoxam	170	148	F/P	30 - 160
2319995	Tolfenpyrad	61.0	48.9	P/P	30 - 160
2319995	Triclopyr	122	96.2	P/P	30 - 160

Reference Method: EPA 8321B
Batch ID: P412593

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2319878	Acesulfame K	106	110	P/P	40 - 150
2319878	AMPA	106	108	P/P	40 - 150
2319878	Endothall	100	104	P/P	40 - 150
2319878	Glufosinate	98.5	106	P/P	40 - 150
2319878	Glyphosate	89.8	90.1	P/P	40 - 150
2319878	Sucralose	99.0	102	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P412784

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2320421	3-Hydroxycarbofuran	62.0	82.7	P/P	30 - 160
2320421	Aldicarb	47.6	74.9	P/P	30 - 150
2320421	Aldicarb Sulfone	119	111	P/P	30 - 160
2320421	Aldicarb Sulfoxide	53.3	50.8	P/P	30 - 160
2320421	Carbaryl	85.6	82.9	P/P	30 - 160
2320421	Carbofuran	93.2	90.1	P/P	30 - 160
2320421	Methiocarb	85.3	82.5	P/P	30 - 160
2320421	Methomyl	99.3	95.3	P/P	30 - 160
2320421	Oxamyl	108	112	P/P	30 - 160
2320421	Propoxur	92.1	79.6	P/P	30 - 160

Reference Method: SM 4500-F- C-2011
Batch ID: P413150

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2318659	Fluoride	96.8	97.7	P/P	92 - 107

Reference Method: SM 4500-F- C-2011
Batch ID: P413188

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2321325	Fluoride	103	102	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P412814

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2320368	Organic Carbon	94.1	95.7	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P412872

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2319761	Organic Carbon	88.3	90.2	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P412745

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2320400	Color (true)	0.665	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P412644

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2320363	Turbidity	2.99	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P412954

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2320050	Chloride	0.403	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P412957

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2320050	Sulfate	0.497	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P412709

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2320396	Ammonia-N	1.34	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413070

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322208	Ammonia-N	0.800	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413084

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2320397	Ammonia-N	0.368	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413004

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2319961	Kjeldahl Nitrogen	3.17	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413129

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2320365	Kjeldahl Nitrogen	5.83	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P412752

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2320401	NO2NO3-N	0.725	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P412754

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2320396	NO2NO3-N	1.01	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P412800

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2320437	Total-P	0.163	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P412893

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2320396	Total-P	1.96	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P412634

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2320402	O-Phosphate-P	1.08	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P412635

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2320398	O-Phosphate-P	0.101	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P412577

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2319826	Aldrin	13.5	Spike	P	0 - 37
2319826	Alpha-BHC	5.21	Spike	P	0 - 16

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P412577

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2319826	Alpha-Chlordane	33.4	Spike	F	0 - 28
2319826	Beta-BHC	5.41	Spike	P	0 - 32
2319826	Beta-Cyfluthrin	25.3	Spike	P	0 - 41
2319826	Bifenthrin	8.63	Spike	P	0 - 36
2319826	Chlorothalonil	2.18	Spike	P	0 - 54
2319826	Cis-Nonachlor	33.0	Spike	F	0 - 33
2319826	Cypermethrin	23.6	Spike	P	0 - 38
2319826	Dacthal	21.4	Spike	P	0 - 23
2319826	DDD-p,p'	22.1	Spike	P	0 - 35
2319826	DDE-p,p'	24.4	Spike	P	0 - 27
2319826	DDT-p,p'	1.71	Spike	P	0 - 31
2319826	Delta-BHC	0.257	Spike	P	0 - 30
2319826	Deltamethrin	18.5	Spike	P	0 - 76
2319826	Dichlobenil	1.10	Spike	P	0 - 33
2319826	Dicofol	5.46	Spike	P	0 - 24
2319826	Dieldrin	23.2	Spike	P	0 - 35
2319826	Endosulfan I	18.1	Spike	P	0 - 25
2319826	Endosulfan II	21.6	Spike	P	0 - 31
2319826	Endosulfan Sulfate	23.9	Spike	P	0 - 38
2319826	Endrin	19.1	Spike	P	0 - 53
2319826	Endrin Aldehyde	29.5	Spike	P	0 - 81
2319826	Endrin Ketone	1.02	Spike	P	0 - 33
2319826	Esfenvalerate	18.9	Spike	P	0 - 46
2319826	Ethalfluralin	13.3	Spike	P	0 - 22
2319826	Fenpropathrin	11.4	Spike	P	0 - 29
2319826	Gamma-BHC	15.5	Spike	P	0 - 17
2319826	Gamma-Chlordane	39.9	Spike	F	0 - 28
2319826	Heptachlor	12.4	Spike	P	0 - 28
2319826	Heptachlor Epoxide	7.47	Spike	P	0 - 23
2319826	Hexachlorobenzene	15.0	Spike	P	0 - 22
2319826	Kepone	8.45	Spike	P	0 - 61
2319826	Lambda-Cyhalothrin	15.7	Spike	P	0 - 52
2319826	Methoprene	26.6	Spike	P	0 - 38
2319826	Methoxychlor	27.3	Spike	P	0 - 29
2319826	MGK-264	1.87	Spike	P	0 - 41
2319826	Mirex	7.89	Spike	P	0 - 39
2319826	Oxychlordane	10.7	Spike	P	0 - 33
2319826	Permethrin	26.6	Spike	P	0 - 39
2319826	Phenothrin	32.6	Spike	P	0 - 52
2319826	Piperonyl Butoxide	9.93	Spike	P	0 - 91
2319826	Prallethrin	21.5	Spike	P	0 - 34
2319826	Tau-Fluvalinate	19.6	Spike	P	0 - 41
2319826	Tetramethrin	3.54	Spike	P	0 - 43
2319826	Trans-Nonachlor	23.5	Spike	P	0 - 31
2319826	Triclosan Methyl	39.6	Spike	F	0 - 24
2319826	Trifluralin	3.72	Spike	P	0 - 23

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P412654

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2321252	Acetochlor	5.41	Spike	P	0 - 27
2321252	Alachlor	0.868	Spike	P	0 - 27
2321252	Ametryn	11.1	Spike	P	0 - 34
2321252	Atrazine	0.246	Spike	P	0 - 41
2321252	Atrazine Desethyl	5.04	Spike	P	0 - 38
2321252	Azinphos Methyl	0.198	Spike	P	0 - 62
2321252	Azoxystrobin	7.04	Spike	P	0 - 32
2321252	Bromacil	4.39	Spike	P	0 - 30
2321252	Butylate	3.28	Spike	P	0 - 59
2321252	Caffeine	4.67	Spike	P	0 - 60
2321252	Carbophenothion	4.47	Spike	P	0 - 25
2321252	Carfentrazone Ethyl	3.35	Spike	P	0 - 26
2321252	Chlorfenapyr	2.75	Spike	P	0 - 30
2321252	Chlorpyrifos Ethyl	7.25	Spike	P	0 - 27
2321252	Chlorpyrifos Methyl	11.4	Spike	P	0 - 26
2321252	Coumaphos	2.02	Spike	P	0 - 30
2321252	Cyanazine	0.414	Spike	P	0 - 58
2321252	Cyprodinil	0.451	Spike	P	0 - 30
2321252	Demeton	4.22	Spike	P	0 - 25
2321252	Diazinon	4.56	Spike	P	0 - 29
2321252	Difenoconazole	5.68	Spike	P	0 - 25
2321252	Dimethenamid	2.74	Spike	P	0 - 30
2321252	Dimethomorph	6.37	Spike	P	0 - 30
2321252	Disulfoton	4.18	Spike	P	0 - 33
2321252	Dithiopyr	10.3	Spike	P	0 - 22
2321252	EPTC	9.08	Spike	P	0 - 38
2321252	Ethion	4.85	Spike	P	0 - 79
2321252	Ethoprop	4.48	Spike	P	0 - 23
2321252	Etridiazole	6.33	Spike	P	0 - 30
2321252	Fenamiphos	6.50	Spike	P	0 - 58
2321252	Fenbuconazole	1.37	Spike	P	0 - 37
2321252	Fipronil	0.197	Spike	P	0 - 33
2321252	Fipronil Desulfinyl	9.14	Spike	P	0 - 26
2321252	Fipronil Sulfide	4.95	Spike	P	0 - 37
2321252	Fipronil Sulfone	0.591	Spike	P	0 - 50
2321252	Fluazifop-P-butyl	14.5	Spike	P	0 - 24
2321252	Fludioxonil	9.58	Spike	P	0 - 26
2321252	Flumioxazin	1.57	Spike	P	0 - 37
2321252	Flutolanil	1.21	Spike	P	0 - 26
2321252	Fluxapyroxad	1.04	Spike	P	0 - 34
2321252	Fonofos	0.221	Spike	P	0 - 27
2321252	Hexazinone	8.22	Spike	P	0 - 36
2321252	Imazalil	16.1	Spike	P	0 - 65
2321252	Iprodione	1.86	Spike	P	0 - 33
2321252	Loratadine	14.2	Spike	P	0 - 30
2321252	Malathion	7.91	Spike	P	0 - 44
2321252	Metalaxyl	9.04	Spike	P	0 - 38
2321252	Metolachlor	4.28	Spike	P	0 - 36
2321252	Metribuzin	13.5	Spike	P	0 - 63
2321252	Mevinphos	11.7	Spike	P	0 - 26
2321252	Molinate	2.54	Spike	P	0 - 40

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P412654

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2321252	Myclobutanil	2.47	Spike	P	0 - 21
2321252	Naled	5.34	Spike	P	0 - 26
2321252	Napropamide	1.04	Spike	P	0 - 30
2321252	Norflurazon	4.71	Spike	P	0 - 24
2321252	Oxadiazon	0.0610	Spike	P	0 - 27
2321252	Oxyfluorfen	1.90	Spike	P	0 - 24
2321252	Parathion Ethyl	1.55	Spike	P	0 - 28
2321252	Parathion Methyl	9.64	Spike	P	0 - 27
2321252	Pendimethalin	1.77	Spike	P	0 - 31
2321252	Phenytoin	3.43	Spike	P	0 - 30
2321252	Phorate	1.94	Spike	P	0 - 27
2321252	Prodiamine	4.97	Spike	P	0 - 52
2321252	Prometon	5.37	Spike	P	0 - 31
2321252	Prometryn	3.36	Spike	P	0 - 28
2321252	Pronamide	10.7	Spike	P	0 - 26
2321252	Propanil	9.70	Spike	P	0 - 30
2321252	Propargite	3.87	Spike	P	0 - 30
2321252	Propiconazole	4.82	Spike	P	0 - 31
2321252	Pyraflufen Ethyl	5.68	Spike	P	0 - 30
2321252	Pyridaben	4.12	Spike	P	0 - 30
2321252	Pyriproxyfen	2.51	Spike	P	0 - 50
2321252	Simazine	6.22	Spike	P	0 - 29
2321252	Stirophos	6.10	Spike	P	0 - 30
2321252	Sulfentrazone	2.49	Spike	P	0 - 33
2321252	Tebuconazole	2.22	Spike	P	0 - 44
2321252	Terbufos	2.29	Spike	P	0 - 29
2321252	Terbuthylazine	4.32	Spike	P	0 - 27
2321252	Thiobencarb	3.30	Spike	P	0 - 30
2321252	Triadimefon	1.72	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P412577

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2319836	Chlordane	0.944	Spike	P	0 - 25
2319836	Toxaphene	6.48	Spike	P	0 - 24

Reference Method: EPA 8321B
Batch ID: P412554

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2319995	2,4-D	24.1	Spike	P	0 - 30
2319995	2,4,5-T	28.6	Spike	P	0 - 30
2319995	Acetaminophen	18.9	Spike	P	0 - 30
2319995	Acetamiprid	11.4	Spike	P	0 - 30
2319995	Afidopyropen	5.51	Spike	P	0 - 30
2319995	Bentazon	21.7	Spike	P	0 - 30
2319995	Benzovindiflupyr	14.8	Spike	P	0 - 30
2319995	Carbamazepine	14.6	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P412554

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2319995	Clothianidin	17.0	Spike	P	0 - 30
2319995	Dinotefuran	10.6	Spike	P	0 - 30
2319995	Diuron	13.4	Spike	P	0 - 30
2319995	Fenuron	12.1	Spike	P	0 - 30
2319995	Fluridone	18.2	Spike	P	0 - 30
2319995	Hydrocodone	21.0	Spike	P	0 - 30
2319995	Ibuprofen	12.0	Spike	P	0 - 30
2319995	Imazapyr	21.5	Spike	P	0 - 30
2319995	Imidacloprid	14.8	Spike	P	0 - 30
2319995	Linuron	9.42	Spike	P	0 - 30
2319995	Mandestrobin	15.3	Spike	P	0 - 30
2319995	MCPP	26.9	Spike	P	0 - 30
2319995	Naproxen	6.90	Spike	P	0 - 30
2319995	Primidone	0.363	Spike	P	0 - 30
2319995	Pyraclostrobin	18.9	Spike	P	0 - 30
2319995	Silvex	33.3	Spike	F	0 - 30
2319995	Thiamethoxam	13.5	Spike	P	0 - 30
2319995	Tolfenpyrad	22.1	Spike	P	0 - 30
2319995	Triclopyr	23.3	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P412593

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2319878	Acesulfame K	3.55	Spike	P	0 - 30
2319878	AMPA	2.21	Spike	P	0 - 30
2319878	Endothall	3.93	Spike	P	0 - 30
2319878	Glufosinate	7.61	Spike	P	0 - 30
2319878	Glyphosate	0.343	Spike	P	0 - 30
2319878	Sucralose	3.20	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P412784

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2320421	3-Hydroxycarbofuran	28.6	Spike	P	0 - 30
2320421	Aldicarb	44.5	Spike	F	0 - 30
2320421	Aldicarb Sulfone	6.65	Spike	P	0 - 30
2320421	Aldicarb Sulfoxide	4.82	Spike	P	0 - 30
2320421	Carbaryl	3.25	Spike	P	0 - 30
2320421	Carbofuran	3.36	Spike	P	0 - 30
2320421	Methiocarb	3.32	Spike	P	0 - 30
2320421	Methomyl	4.08	Spike	P	0 - 30
2320421	Oxamyl	3.77	Spike	P	0 - 30
2320421	Propoxur	14.5	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: SM 2320 B-2011
Batch ID: P413143

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2320394	Total Alkalinity	0.806	Sample	P	0 - 5.2

Reference Method: SM 2320 B-2011
Batch ID: P413183

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2321325	Total Alkalinity	0.129	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P413194

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2320637	TDS	3.20	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P413150

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2318659	Fluoride	0.520	Spike	P	0 - 2.1

Reference Method: SM 4500-F- C-2011
Batch ID: P413188

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2321325	Fluoride	0.960	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P412814

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2320368	Organic Carbon	1.44	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P412872

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2319761	Organic Carbon	1.75	Spike	P	0 - 20

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2320421
Field Sample ID: G3TLHR0040

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	69.7	P	30 - 160

Lab Sample ID: 2320422
Field Sample ID: G3TLHR0040

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	68.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	85.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	87.6	P	30 - 160
EPA 8321B	Diuron-d6	67.0	P	30 - 160
EPA 8321B	Endothall-d6	97.8	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	79.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	48.5	P	30 - 160
EPA 8321B	Primidone-d5	69.7	P	30 - 160
EPA 8321B	Sucralose-d6	98.8	P	30 - 160

Lab Sample ID: 2320423
Field Sample ID: G3TLHR0043

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	87.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	104	P	30 - 160
EPA 8321B	Carbamazepine-d10	107	P	30 - 160
EPA 8321B	Diuron-d6	84.3	P	30 - 160
EPA 8321B	Endothall-d6	97.3	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	81.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	68.0	P	30 - 160
EPA 8321B	Primidone-d5	108	P	30 - 160
EPA 8321B	Sucralose-d6	67.3	P	30 - 160

Lab Sample ID: 2320424
Field Sample ID: G3TLHR0040

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	99.1	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	94.4	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	100	F	30 - 97.0
EPA 8276	PCNB	73.3	P	45 - 119

Lab Sample ID: 2320425
Field Sample ID: G3TLHR0040

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	50.2	P	20 - 200
EPA 8270E	Simazine-d10	88.1	P	71 - 140
EPA 8270E	Terbufos-d10	91.1	P	62 - 131

Quality Assurance Report
Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A111575
Included Lab Sample IDs: 2320398, 2320399, 2320402, 2320405, 2320408

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	98.7	P/P	90 - 110
O-Phosphate-P	98.7	98.1	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A111579
Included Lab Sample IDs: 2320394, 2320395, 2320400, 2320403, 2320406

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	99.5	P/P	95 - 105
Turbidity	99.5	99.5	P/P	95 - 105

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A111601
Included Lab Sample IDs: 2320396

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.4	99.3	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1
Run ID: A111623
Included Lab Sample IDs: 2320400

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	85 - 115

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A111626
Included Lab Sample IDs: 2320401

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A111628
Included Lab Sample IDs: 2320396, 2320397, 2320404, 2320407

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	100	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A111640
Included Lab Sample IDs: 2320422, 2320423

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	95.4	92.3	P/P	60 - 160
Sucralose	99.3	99.5	P/P	60 - 160

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8276
Run ID: A111653
Included Lab Sample IDs: 2320424

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	100		P	80 - 120
Toxaphene	103		P	80 - 120

Reference Method: EPA 8321B
Run ID: A111655
Included Lab Sample IDs: 2320422, 2320423

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	106	110	P/P	60 - 160
AMPA	111	109	P/P	60 - 160
Endothall	100	102	P/P	60 - 160
Glufosinate	104	104	P/P	60 - 160
Glufosinate	106	106	P/P	60 - 160
Glyphosate	102	97.7	P/P	60 - 160
Glyphosate	104	103	P/P	60 - 160

Reference Method: SM 5310 B-2011
Run ID: A111659
Included Lab Sample IDs: 2320401

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.2	97.2	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A111665
Included Lab Sample IDs: 2320424

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	104		P	80 - 120
Alpha-BHC	104		P	80 - 120
Alpha-Chlordane	97.6		P	80 - 120
Beta-BHC	108		P	80 - 120
Beta-Cyfluthrin	96.2		P	80 - 120
Bifenthrin	95.1		P	80 - 120
Chlorothalonil	84.3		P	80 - 120
Cis-Nonachlor	119		P	80 - 120
Cypermethrin	80.1		P	80 - 120
Dacthal	103		P	80 - 120
DDD-p,p'	100		P	80 - 120
DDE-p,p'	104		P	80 - 120
DDT-p,p'	98.3		P	80 - 120
Delta-BHC	102		P	80 - 120
Deltamethrin	91.7		P	80 - 120
Dichlobenil	86.2		P	80 - 120
Dicofol	98.6		P	80 - 120
Dieldrin	97.4		P	80 - 120
Endosulfan I	102		P	80 - 120
Endosulfan II	102		P	80 - 120
Endosulfan Sulfate	98.6		P	80 - 120
Endrin	99.0		P	80 - 120
Endrin Aldehyde	117		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A111665
Included Lab Sample IDs: 2320424

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endrin Ketone	115		P	80 - 120
Esfenvalerate	93.5		P	80 - 120
Ethalfluralin	99.0		P	80 - 120
Fenpropathrin	91.2		P	80 - 120
Gamma-BHC	110		P	80 - 120
Gamma-Chlordane	104		P	80 - 120
Heptachlor	95.7		P	80 - 120
Heptachlor Epoxide	110		P	80 - 120
Hexachlorobenzene	94.3		P	80 - 120
Kepone	107		P	80 - 120
Lambda-Cyhalothrin	94.6		P	80 - 120
Methoprene	94.4		P	80 - 120
Methoxychlor	94.3		P	80 - 120
MGK-264	99.2		P	80 - 120
Mirex	95.6		P	80 - 120
Oxychlordane	94.6		P	80 - 120
Permethrin	98.3		P	80 - 120
Phenothrin	96.8		P	80 - 120
Piperonyl Butoxide	94.0		P	80 - 120
Prallethrin	104		P	80 - 120
Tau-Fluvalinate	99.2		P	80 - 120
Tetramethrin	86.0		P	80 - 120
Trans-Nonachlor	105		P	80 - 120
Triclosan Methyl	109		P	80 - 120
Trifluralin	89.4		P	80 - 120

Reference Method: SM 5310 B-2011
Run ID: A111683
Included Lab Sample IDs: 2320396, 2320397, 2320404, 2320407

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	93.2	93.6	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A111715
Included Lab Sample IDs: 2320400

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A111765
Included Lab Sample IDs: 2320401

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.8	97.3	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A111767
Included Lab Sample IDs: 2320422, 2320423

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	95.7	84.7	P/P	50 - 150
2,4,5-T	105	89.4	P/P	50 - 150
Acetaminophen	99.4	86.3	P/P	60 - 160
Acetamiprid	105	95.6	P/P	50 - 150
Afidopyropen	95.7	83.3	P/P	50 - 150
Bentazon	106	80.5	P/P	50 - 160
Benzovindiflupyr	113	92.6	P/P	50 - 150
Carbamazepine	105	93.3	P/P	60 - 150
Clothianidin	105	90.7	P/P	60 - 150
Dinotefuran	103	94.1	P/P	50 - 150
Diuron	105	97.2	P/P	60 - 160
Fenuron	101	97.6	P/P	60 - 150
Fluridone	107	107	P/P	60 - 160
Hydrocodone	104	87.6	P/P	60 - 150
Ibuprofen	107	110	P/P	50 - 160
Imazapyr	87.7	85.1	P/P	50 - 150
Imidacloprid	101	89.6	P/P	60 - 150
Linuron	98.3	95.8	P/P	60 - 150
Mandestrobin	112	103	P/P	50 - 150
MCPP	84.6	73.7	P/P	50 - 150
Naproxen	104	72.6	P/P	50 - 160
Primidone	91.2	91.9	P/P	60 - 150
Pyraclostrobin	120	108	P/P	60 - 150
Silvex	88.4	78.4	P/P	50 - 150
Thiamethoxam	102	91.9	P/P	50 - 150
Tolfenpyrad	108	99.4	P/P	60 - 150
Triclopyr	110	85.1	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A111774
Included Lab Sample IDs: 2320401

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A111784
Included Lab Sample IDs: 2320397, 2320404, 2320407

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	90.1	97.8	P/P	90 - 110
Ammonia-N	97.6	97.6	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A111799
Included Lab Sample IDs: 2320425

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	95.5		P	80 - 120
Alachlor	94.4		P	80 - 120
Ametryn	89.9		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A111799
Included Lab Sample IDs: 2320425

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	101		P	80 - 120
Atrazine Desethyl	101		P	80 - 120
Azinphos Methyl	89.2		P	80 - 120
Azoxystrobin	99.6		P	80 - 120
Bromacil	97.7		P	80 - 120
Butylate	95.0		P	80 - 120
Caffeine	90.9		P	80 - 120
Carbophenothion	84.0		P	80 - 120
Carfentrazone Ethyl	85.4		P	80 - 120
Chlorfenapyr	92.0		P	80 - 120
Chlorpyrifos Ethyl	90.8		P	80 - 120
Chlorpyrifos Methyl	94.4		P	80 - 120
Coumaphos	83.5		P	80 - 120
Cyanazine	100		P	80 - 120
Cyprodinil	91.1		P	80 - 120
Demeton	97.8		P	80 - 120
Diazinon	95.3		P	80 - 120
Difenoconazole	82.5		P	80 - 120
Dimethenamid	99.2		P	80 - 120
Dimethomorph	97.2		P	80 - 120
Disulfoton	95.5		P	80 - 120
Dithiopyr	98.7		P	80 - 120
EPTC	99.1		P	80 - 120
Ethion	95.8		P	80 - 120
Ethoprop	96.5		P	80 - 120
Etridiazole	97.0		P	80 - 120
Fenamiphos	94.4		P	80 - 120
Fenbuconazole	81.7		P	80 - 120
Fipronil	98.7		P	80 - 120
Fipronil Desulfinyl	92.8		P	80 - 120
Fipronil Sulfide	89.6		P	80 - 120
Fipronil Sulfone	87.5		P	80 - 120
Fluazifop-P-butyl	97.6		P	80 - 120
Fludioxonil	95.0		P	80 - 120
Flumioxazin	83.9		P	80 - 120
Flutolanil	96.2		P	80 - 120
Fluxapyroxad	92.7		P	80 - 120
Fonofos	96.0		P	80 - 120
Hexazinone	97.6		P	80 - 120
Imazalil	87.4		P	80 - 120
Iprodione	89.2		P	80 - 120
Loratadine	114		P	80 - 120
Malathion	88.3		P	80 - 120
Metalaxyl	93.5		P	80 - 120
Metolachlor	97.5		P	80 - 120
Metribuzin	105		P	80 - 120
Mevinphos	104		P	80 - 120
Molinate	101		P	80 - 120
Myclobutanil	103		P	80 - 120
Naled	91.1		P	80 - 120
Napropamide	95.1		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A111799
Included Lab Sample IDs: 2320425

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Norflurazon	91.2		P	80 - 120
Oxadiazon	104		P	80 - 120
Oxyfluorfen	91.7		P	80 - 120
Parathion Ethyl	101		P	80 - 120
Parathion Methyl	102		P	80 - 120
Pendimethalin	97.3		P	80 - 120
Phenytoin	90.1		P	80 - 120
Phorate	98.4		P	80 - 120
Prodiamine	102		P	80 - 120
Prometon	90.2		P	80 - 120
Prometryn	91.2		P	80 - 120
Pronamide	94.1		P	80 - 120
Propanil	92.8		P	80 - 120
Propargite	91.4		P	80 - 120
Propiconazole	97.0		P	80 - 120
Pyraflufen Ethyl	89.4		P	80 - 120
Pyridaben	81.9		P	80 - 120
Pyriproxyfen	91.7		P	80 - 120
Simazine	100		P	80 - 120
Stirophos	94.3		P	80 - 120
Sulfentrazone	88.9		P	80 - 120
Tebuconazole	89.7		P	80 - 120
Terbufos	99.3		P	80 - 120
Terbuthylazine	95.1		P	80 - 120
Thiobencarb	101		P	80 - 120
Triadimefon	92.3		P	80 - 120

Reference Method: SM 2320 B-2011
Run ID: A111807
Included Lab Sample IDs: 2320394, 2320395, 2320403, 2320406

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.4	98.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A111807
Included Lab Sample IDs: 2320394, 2320395, 2320403, 2320406

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

Reference Method: SM 2320 B-2011
Run ID: A111826
Included Lab Sample IDs: 2320400

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.0	97.5	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: SM 4500-F- C-2011
Run ID: A111826
Included Lab Sample IDs: 2320400

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

Reference Method: EPA 8321B
Run ID: A111838
Included Lab Sample IDs: 2320421

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	109	102	P/P	60 - 150
Aldicarb	104	63.5	P/P	60 - 150
Aldicarb Sulfone	97.8	98.9	P/P	50 - 150
Aldicarb Sulfoxide	105	93.3	P/P	50 - 150
Carbaryl	103	112	P/P	60 - 150
Carbofuran	105	108	P/P	50 - 150
Methiocarb	105	97.4	P/P	50 - 150
Methomyl	98.5	96.0	P/P	50 - 150
Oxamyl	92.8	98.3	P/P	50 - 150
Propoxur	106	107	P/P	50 - 150

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A111862
Included Lab Sample IDs: 2320396, 2320397, 2320404, 2320407

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	105	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A111864
Included Lab Sample IDs: 2320396, 2320397, 2320404, 2320407

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	99.0	P/P	90 - 110
Total-P	99.0	99.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A111911
Included Lab Sample IDs: 2320401

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	107	P/P	90 - 110

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

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
DEP SOP: NU-094-1	Color (true)	99.8				0.665	
EPA 180.1 Rev. 2.0	Turbidity	95.9				2.99	
EPA 300.0 Rev. 2.1	Chloride	101	101	99.6		0.403	
	Sulfate	100	96.7	99.5		0.497	
EPA 350.1 Rev. 2.0	Ammonia-N	98.6	98.8	100			1.34
	Ammonia-N	95.6	99.6	100			0.800
	Ammonia-N	96.8	99.2	99.6			0.368
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	108	97.4	101			3.17
	Kjeldahl Nitrogen	100	104	95.5			5.83
EPA 353.2 Rev. 2.0	NO2NO3-N	102	97.8	98.8			0.725
	NO2NO3-N	99.0	99.5	98.5			1.01
EPA 365.1 Rev. 2.0	Total-P	103	104	104			0.163
	Total-P	101	96.1	98.0			1.96
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.3	97.0	98.1			1.08
	O-Phosphate-P	100	99.2	99.1			0.101
EPA 8270E	Acetochlor	78.6	92.8	87.9			5.41
	Alachlor	72.3	77.2	76.5			0.868
	Aldrin	49.7	70.4	61.5			13.5
	Alpha-BHC	96.7	97.4	103			5.21
	Alpha-Chlordane	72.7	90.3	64.4			33.4
	Ametryn	69.0	87.2	78.0			11.1
	Atrazine	85.3	91.1	91.4			0.246
	Atrazine Desethyl	47.7	51.6	49.1			5.04
	Azinphos Methyl	115	134	134			0.198
	Azoxystrobin	81.0	92.3	83.4			7.04
	Beta-BHC	123	120	114			5.41
	Beta-Cyfluthrin	61.1	91.5	70.9			25.3
	Bifenthrin	47.1	65.8	60.3			8.63
	Bromacil	68.8	77.9	74.6			4.39
	Butylate	48.8	56.2	54.4			3.28
	Caffeine	98.8	92.0	96.4			4.67
	Carbophenothion	97.9	102	107			4.47
	Carfentrazone Ethyl	87.0	109	113			3.35
	Chlorfenapyr	77.2	78.4	76.3			2.75
	Chlorothalonil	66.9	102	99.8			2.18
	Chlorpyrifos Ethyl	93.2	87.4	81.3			7.25
	Chlorpyrifos Methyl	103	109	96.9			11.4
	Cis-Nonachlor	78.2	100	71.8			33.0
	Coumaphos	111	134	131			2.02
	Cyanazine	91.1	105	105			0.414
	Cypermethrin	65.4	102	80.8			23.6
	Cyprodinil	71.6	82.0	81.6			0.451
	Dacthal	85.2	102	82.2			21.4
	DDD-p,p'	74.0	92.9	74.4			22.1
	DDE-p,p'	74.5	97.6	76.4			24.4
	DDT-p,p'	71.4	78.4	77.0			1.71
	Delta-BHC	130	120	119			0.257
	Deltamethrin	73.4	107	88.6			18.5
	Demeton	73.1	82.6	79.2			4.22
	Diazinon	77.0	93.0	97.3			4.56
	Dichlobenil	92.2	73.0	73.8			1.10
	Dicofol	70.9	69.8	73.7			5.46
	Dieldrin	75.1	90.4	71.6			23.2
	Difenoconazole	109	132	139			5.68

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Dimethenamid	64.8	77.6	75.5			2.74
	Dimethomorph	61.0	74.8	70.2			6.37
	Disulfoton	83.7	89.8	93.6			4.18
	Dithiopyr	78.5	100	90.4			10.3
	Endosulfan I	79.9	93.1	77.6			18.1
	Endosulfan II	82.4	87.4	70.4			21.6
	Endosulfan Sulfate	92.5	102	80.0			23.9
	Endrin	77.4	85.0	70.1			19.1
	Endrin Aldehyde	92.6	86.0	63.9			29.5
	Endrin Ketone	105	98.0	99.0			1.02
	EPTC	45.9	45.3	49.6			9.08
	Esfenvalerate	67.0	98.2	81.3			18.9
	Ethalfluralin	72.2	93.8	82.1			13.3
	Ethion	84.0	87.2	83.1			4.85
	Ethoprop	69.9	93.3	97.6			4.48
	Etridiazole	53.0	62.3	58.4			6.33
	Fenamiphos	103	95.8	89.8			6.50
	Fenbuconazole	84.2	98.9	100			1.37
	Fenpropathrin	56.1	68.7	77.0			11.4
	Fipronil	77.2	94.9	94.7			0.197
	Fipronil Desulfinyl	76.1	105	95.4			9.14
	Fipronil Sulfide	76.6	80.1	84.2			4.95
	Fipronil Sulfone	93.9	98.9	98.3			0.591
	Fluazifop-P-butyl	79.4	87.6	101			14.5
	Fludioxonil	78.4	85.3	93.9			9.58
	Flumioxazin	138	183	181			1.57
	Flutolanil	79.0	86.3	85.3			1.21
	Fluxapyroxad	94.6	139	140			1.04
	Fonofos	74.1	91.5	91.3			0.221
	Gamma-BHC	111	108	127			15.5
	Gamma-Chlordane	66.8	90.1	58.1			39.9
	Heptachlor	61.4	81.8	72.2			12.4
	Heptachlor Epoxide	80.4	96.6	89.6			7.47
	Hexachlorobenzene	79.7	84.7	72.9			15.0
	Hexazinone	84.6	102	94.3			8.22
	Imazalil	63.0	43.8	51.5			16.1
	Iprodione	108	147	150			1.86
	Kepone	144	113	103			8.45
	Lambda-Cyhalothrin	57.0	89.0	76.1			15.7
	Loratadine	54.5	73.8	64.0			14.2
	Malathion	108	109	101			7.91
	Metalaxyl	69.5	81.9	74.8			9.04
	Methoprene	50.3	92.7	71.0			26.6
	Methoxychlor	74.5	65.6	86.3			27.3
	Metolachlor	76.9	84.1	80.3			4.28
	Metribuzin	77.1	96.0	83.8			13.5
	Mevinphos	53.0	76.9	86.5			11.7
	MGK-264	77.0	93.3	91.6			1.87
	Mirex	52.1	71.4	66.0			7.89
	Molinate	59.2	71.6	69.8			2.54
	Myclobutanil	78.0	92.8	95.1			2.47
	Naled	88.1	88.8	84.2			5.34
	Napropamide	72.9	71.5	70.8			1.04
	Norflurazon	76.2	98.1	103			4.71

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Oxadiazon	72.1	64.7	64.8			0.0610
	Oxychlordane	64.7	82.6	74.2			10.7
	Oxyfluorfen	85.9	113	115			1.90
	Parathion Ethyl	86.0	90.7	89.3			1.55
	Parathion Methyl	94.5	111	100			9.64
	Pendimethalin	81.9	108	106			1.77
	Permethrin	74.2	113	86.1			26.6
	Phenothrin	67.6	88.8	63.9			32.6
	Phenytoin	63.4	81.3	84.2			3.43
	Phorate	61.2	75.0	73.6			1.94
	Piperonyl Butoxide	92.6	108	98.0			9.93
	Prallethrin	70.4	92.4	74.5			21.5
	Prodiamine	93.4	159	151			4.97
	Prometon	72.9	82.4	78.1			5.37
	Prometryn	70.3	80.9	78.3			3.36
	Pronamide	76.9	101	90.8			10.7
	Propanil	76.9	86.6	78.6			9.70
	Propargite	97.8	118	114			3.87
	Propiconazole	81.2	108	103			4.82
	Pyraflufen Ethyl	87.6	112	118			5.68
	Pyridaben	105	115	110			4.12
	Pyriproxyfen	99.9	117	114			2.51
	Simazine	83.4	94.6	88.9			6.22
	Stirophos	101	98.9	93.1			6.10
	Sulfentrazone	72.9	121	124			2.49
	Tau-Fluvalinate	60.5	83.5	68.7			19.6
	Tebuconazole	91.2	112	115			2.22
	Terbufos	92.8	107	110			2.29
	Terbuthylazine	74.2	82.8	86.5			4.32
	Tetramethrin	68.5	91.5	94.8			3.54
	Thiobencarb	77.1	85.7	83.0			3.30
	Trans-Nonachlor	70.1	86.5	68.3			23.5
	Triadimefon	65.7	71.9	73.2			1.72
	Triclosan Methyl	88.8	93.5	62.6			39.6
	Trifluralin	61.0	84.8	81.7			3.72
EPA 8276	Chlordane	88.6	88.9	89.8			0.944
	Toxaphene	94.9	106	99.4			6.48
EPA 8321B	2,4-D	90.5	108	84.5			24.1
	2,4,5-T	105	109	82.1			28.6
	3-Hydroxycarbofuran	57.2	62.0	82.7			28.6
	Acesulfame K	103	106	110			3.55
	Acetaminophen	88.1	97.0	80.2			18.9
	Acetamiprid	104	115	102			11.4
	Afidopyropen	72.8	80.9	76.6			5.51
	Aldicarb	44.9	47.6	74.9			44.5
	Aldicarb Sulfone	85.9	119	111			6.65
	Aldicarb Sulfoxide	91.5	53.3	50.8			4.82
	AMPA	99.6	106	108			2.21
	Bentazon	59.1	39.7	31.9			21.7
	Benzovindiflupyr	96.1	88.7	76.5			14.8
	Carbamazepine	110	102	88.3			14.6
	Carbaryl	82.6	85.6	82.9			3.25
	Carbofuran	84.8	93.2	90.1			3.36
	Clothianidin	108	130	110			17.0

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Dinotefuran	104	128	115			10.6
	Diuron	98.4	84.0	73.4			13.4
	Endothall	94.6	100	104			3.93
	Fenuron	103	87.8	77.7			12.1
	Fluridone	95.6	90.0	75.0			18.2
	Glufosinate	96.6	98.5	106			7.61
	Glyphosate	92.9	89.8	90.1			0.343
	Hydrocodone	101	110	89.0			21.0
	Ibuprofen	80.8	76.8	68.1			12.0
	Imazapyr	98.9	112	90.0			21.5
	Imidacloprid	104	184	159			14.8
	Linuron	82.4	70.8	64.4			9.42
	Mandestrobin	104	95.0	81.5			15.3
	MCPP	116	129	98.5			26.9
	Methiocarb	79.9	85.3	82.5			3.32
	Methomyl	85.7	99.3	95.3			4.08
	Naproxen	112	92.3	86.1			6.90
	Oxamyl	86.5	108	112			3.77
	Primidone	108	106	105			0.363
	Propoxur	80.7	92.1	79.6			14.5
	Pyraclostrobin	101	97.7	80.9			18.9
	Silvex	106	113	80.5			33.3
	Sucralose	92.3	99.0	102			3.20
	Thiamethoxam	104	170	148			13.5
	Tolfenpyrad	63.4	61.0	48.9			22.1
	Triclopyr	112	122	96.2			23.3
SM 2320 B-2011	Total Alkalinity	99.0				0.806	
	Total Alkalinity	95.9				0.129	
SM 2540 C-2011	TDS					3.20	
SM 4500-F- C-2011	Fluoride	99.6	96.8	97.7			0.520
	Fluoride	102	103	102			0.960
SM 5310 B-2011	Organic Carbon	94.0	94.1	95.7			1.44
	Organic Carbon	96.6	88.3	90.2			1.75

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2320400
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2320394, 2320395, 2320400, 2320403, 2320406
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2320400
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2320400
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2320396, 2320397, 2320401, 2320404, 2320407
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2320396, 2320397, 2320401, 2320404, 2320407
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2320396, 2320397, 2320401, 2320404, 2320407
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2320396, 2320397, 2320401, 2320404, 2320407
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2320398, 2320399, 2320402, 2320405, 2320408
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2320424
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2320425

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2320424
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2320421
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2320422, 2320423
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2320394, 2320395, 2320400, 2320403, 2320406
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2320400
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2320394, 2320395, 2320400, 2320403, 2320406
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2320394, 2320395, 2320400, 2320403, 2320406
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2320396, 2320397, 2320401, 2320404, 2320407

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	04/19/2022			04/20/2022 12:23	Blanca Fach	2320400
EPA 180.1 Rev. 2.0	04/19/2022			04/20/2022 12:43	Anna M. Plaviak	2320394
	04/19/2022			04/20/2022 12:46	Anna M. Plaviak	2320395
	04/19/2022			04/20/2022 12:49	Anna M. Plaviak	2320403
	04/19/2022			04/20/2022 12:50	Anna M. Plaviak	2320406
	04/19/2022			04/20/2022 12:59	Anna M. Plaviak	2320400
EPA 300.0 Rev. 2.1	04/19/2022			04/27/2022 03:52	Anna M. Plaviak	2320400
EPA 350.1 Rev. 2.0	04/19/2022			04/21/2022 12:04	Ping Hua	2320396
	04/19/2022			04/28/2022 12:10	Ping Hua	2320397
	04/19/2022			04/28/2022 12:14	Ping Hua	2320404
	04/19/2022			04/28/2022 14:50	Ping Hua	2320407
	04/19/2022			04/28/2022 14:58	Judith K. Clark	2320401
EPA 351.2 Rev. 2.0	04/19/2022	04/29/2022 11:06	Alexandra J Mattheus	05/02/2022 16:32	Alexandra J Mattheus	2320396
	04/19/2022	04/29/2022 11:06	Alexandra J Mattheus	05/02/2022 16:34	Alexandra J Mattheus	2320397
	04/19/2022	04/29/2022 11:06	Alexandra J Mattheus	05/02/2022 16:36	Alexandra J Mattheus	2320404
	04/19/2022	04/29/2022 11:06	Alexandra J Mattheus	05/02/2022 16:37	Alexandra J Mattheus	2320407
	04/19/2022	05/02/2022 16:54	Samantha L Bates	05/04/2022 12:44	Samantha L Bates	2320401
EPA 353.2 Rev. 2.0	04/19/2022			04/21/2022 16:28	Nathaniel J Jones	2320401
	04/19/2022			04/22/2022 09:52	Beverly Y. Sanders	2320396
	04/19/2022			04/22/2022 10:05	Beverly Y. Sanders	2320397
	04/19/2022			04/22/2022 10:06	Beverly Y. Sanders	2320404
	04/19/2022			04/22/2022 10:07	Beverly Y. Sanders	2320407
EPA 365.1 Rev. 2.0	04/19/2022	04/26/2022 14:30	Simonne.V. Calhoun	04/28/2022 14:39	James L Waggerby	2320401
	04/19/2022	04/27/2022 15:50	Simonne.V. Calhoun	04/29/2022 16:23	James L Waggerby	2320396
	04/19/2022	04/27/2022 15:50	Simonne.V. Calhoun	04/29/2022 16:33	James L Waggerby	2320397
	04/19/2022	04/27/2022 15:50	Simonne.V. Calhoun	04/29/2022 16:34	James L Waggerby	2320404
	04/19/2022	04/27/2022 15:50	Simonne.V. Calhoun	04/29/2022 16:35	James L Waggerby	2320407
EPA 365.1 Rev. 2.0 dissolved	04/19/2022			04/20/2022 10:57	Nathaniel J Jones	2320402
	04/19/2022			04/20/2022 11:02	Nathaniel J Jones	2320398
	04/19/2022			04/20/2022 11:09	Nathaniel J Jones	2320399
	04/19/2022			04/20/2022 11:10	Nathaniel J Jones	2320405
	04/19/2022			04/20/2022 11:11	Nathaniel J Jones	2320408
EPA 8270E	04/19/2022	04/20/2022 08:45	Rasheda Ghaffari	04/22/2022 21:23	Vandana T. Nagar	2320424
	04/19/2022	04/22/2022 08:00	Fe-Val Siddell	04/28/2022 18:54	Michael Poppell	2320425
EPA 8276	04/19/2022	04/20/2022 08:45	Rasheda Ghaffari	04/23/2022 13:00	Arthur Maknenko	2320424
EPA 8321B	04/19/2022	04/20/2022 09:00	Hoor Shaik	04/21/2022 11:49	Juyoung Kim	2320422
	04/19/2022	04/20/2022 09:00	Hoor Shaik	04/21/2022 12:23	Juyoung Kim	2320423
	04/19/2022	04/20/2022 10:50	Manjita Shrestha	04/20/2022 21:42	Manjita Shrestha	2320422
	04/19/2022	04/20/2022 10:50	Manjita Shrestha	04/20/2022 21:57	Manjita Shrestha	2320423
	04/19/2022	04/20/2022 10:50	Manjita Shrestha	04/22/2022 16:22	Manjita Shrestha	2320422

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	04/19/2022	04/20/2022 10:50	Manjita Shrestha	04/22/2022 16:35	Manjita Shrestha	2320423
	04/19/2022	04/20/2022 10:50	Manjita Shrestha	04/22/2022 20:29	Manjita Shrestha	2320423
	04/19/2022	04/25/2022 10:00	June Rhew	04/26/2022 01:15	Juyoung Kim	2320421
SM 2320 B-2011	04/19/2022			04/29/2022 03:51	Dale L. Simmons	2320394
	04/19/2022			04/29/2022 04:05	Dale L. Simmons	2320395
	04/19/2022			04/29/2022 04:17	Dale L. Simmons	2320403
	04/19/2022			04/29/2022 04:29	Dale L. Simmons	2320406
	04/19/2022			04/30/2022 13:15	Dale L. Simmons	2320400
SM 2540 C-2011	04/19/2022			04/22/2022 15:36	Yijie Li	2320400
SM 2540 D-2011	04/19/2022			04/22/2022 15:36	Yijie Li	2320394, 2320395, 2320400, 2320403, 2320406
SM 4500-F- C-2011	04/19/2022			04/29/2022 01:45	Dale L. Simmons	2320394
	04/19/2022			04/29/2022 01:50	Dale L. Simmons	2320395
	04/19/2022			04/29/2022 01:56	Dale L. Simmons	2320403
	04/19/2022			04/29/2022 02:01	Dale L. Simmons	2320406
	04/19/2022			04/30/2022 13:15	Dale L. Simmons	2320400
SM 5310 B-2011	04/19/2022			04/22/2022 18:56	Khloe J Berg	2320401
	04/19/2022			04/26/2022 02:16	Khloe J Berg	2320396
	04/19/2022			04/26/2022 02:31	Khloe J Berg	2320397
	04/19/2022			04/26/2022 03:02	Khloe J Berg	2320404
	04/19/2022			04/26/2022 03:15	Khloe J Berg	2320407