Chemical Analysis Report

TLH-ROC-2022-09-15-01

Florida DEP Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **Run 12**
Request ID: **RQ-2022-09-12-48**
Customer: **TLH-ROC**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Rd
Tallahassee, FL 32399
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Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant Date Certified: 04-OCT-2022 11:08

Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical groups are included in this report: 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: Watson Bayou South **Collection Date/Time: 09/15/2022 11:40**

Field ID: G3TLHR0006 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2357041	EPA 180.1 Rev. 2.0	Turbidity	1.2		NTU	P419746	
	SM 2320 B-2011	Total Alkalinity	75		mg CaCO3/L	P419966	
	SM 2540 D-2011	TSS	3	I	mg/L	P420148	
	SM 4500-F- C-2011	Fluoride	0.65		mg F/L	P419968	
2357043	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P419913	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.30	I	mg N/L	P419936	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P420067	
	EPA 365.1 Rev. 2.0	Total-P	0.012		mg P/L	P419835	
	SM 5310 B-2011	Organic Carbon	6.6		mg C/L	P420035	

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: 09/15/2022 12:00**

Field ID: G3TLHR0016 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2357042	EPA 180.1 Rev. 2.0	Turbidity	5.0		NTU	P419746	
	SM 2320 B-2011	Total Alkalinity	84		mg CaCO3/L	P419966	
	SM 2540 D-2011	TSS	5	I A	mg/L	P420148	
	SM 4500-F- C-2011	Fluoride	0.55		mg F/L	P419968	
2357044	EPA 350.1 Rev. 2.0	Ammonia-N	0.050		mg N/L	P419913	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.57		mg N/L	P419936	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.031		mg N/L	P420067	
	EPA 365.1 Rev. 2.0	Total-P	0.035		mg P/L	P419835	
	SM 5310 B-2011	Organic Carbon	9.2		mg C/L	P420035	

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 Creek @ Park **Collection Date/Time: 09/15/2022 12:50**

Field ID: G3TLHR0040 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2357047	DEP SOP: NU-094-1	Color (true)	140		PCU	P419733	
	EPA 180.1 Rev. 2.0	Turbidity	6.7	A	NTU	P419746	
	EPA 300.0 Rev. 2.1	Chloride	6.7		mg Cl/L	P420089	
		Sulfate	9.7		mg SO4/L	P420094	
	SM 2320 B-2011	Total Alkalinity	24		mg CaCO3/L	P420275	
	SM 2540 C-2011	TDS	72		mg/L	P420188	
	SM 2540 D-2011	TSS	9	I	mg/L	P420145	
	SM 4500-F- C-2011	Fluoride	0.047	I	mg F/L	P420214	MS
2357048	EPA 350.1 Rev. 2.0	Ammonia-N	0.068		mg N/L	P420112	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.69		mg N/L	P419937	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.080		mg N/L	P420162	
	EPA 365.1 Rev. 2.0	Total-P	0.061		mg P/L	P419838	
	SM 5310 B-2011	Organic Carbon	15		mg C/L	P419800	
2357067	EPA 8321B	Aldicarb	0.020	U	ug/L	P419676	
		Aldicarb Sulfone	0.0020	U	ug/L	P419676	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P419676	
		Carbaryl	0.0020	U	ug/L	P419676	
		Carbofuran	0.0020	U	ug/L	P419676	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P419676	
		Methiocarb	0.0020	U	ug/L	P419676	
		Methomyl	0.0020	U	ug/L	P419676	
		Oxamyl	0.0020	U	ug/L	P419676	
		Propoxur	0.0020	U	ug/L	P419676	
2357068		2,4-D	0.0040	I	ug/L	P419841	
		Acesulfame K	0.10	U	ug/L	P419612	
		2,4,5-T	0.0040	U	ug/L	P419841	
		AMPA	0.10	U	ug/L	P419612	
		Acetaminophen	0.0080	U	ug/L	P419841	
		Acetamiprid	0.0020	U	ug/L	P419841	
		Endothall	0.25	U	ug/L	P419612	
		Glufosinate	0.10	U	ug/L	P419612	
		Glyphosate	0.10	U	ug/L	P419612	
		Afidopyropen	0.0020	U	ug/L	P419841	
		Bentazon	0.018		ug/L	P419841	
		Sucralose	0.15		ug/L	P419612	
		Benzovindiflupyr	0.0020	U	ug/L	P419841	
		Carbamazepine	8.0E-04	U	ug/L	P419841	
		Clothianidin	0.0020	U	ug/L	P419841	
		Dinotefuran	0.0020	U	ug/L	P419841	
		Diuron	0.0020	U	ug/L	P419841	
		Fenuron	0.016	U	ug/L	P419841	
		Fluridone	8.0E-04	U	ug/L	P419841	
		Imazapyr	0.011	I	ug/L	P419841	
		Hydrocodone	0.0020	U	ug/L	P419841	

Field ID: G3TLHR0040 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2357068	EPA 8321B	Ibuprofen	0.020	U	ug/L	P419841	
		Imidacloprid	0.014		ug/L	P419841	
		Linuron	0.0040	U	ug/L	P419841	
		Mandestrobin	0.0020	U	ug/L	P419841	
		MCPP	0.0020	U	ug/L	P419841	
		Naproxen	0.0080	U	ug/L	P419841	
		Primidone	0.0040	U	ug/L	P419841	
		Pyraclostrobin	0.0020	U	ug/L	P419841	
		Silvex	0.0040	U	ug/L	P419841	
		Thiamethoxam	0.0020	U	ug/L	P419841	
		Tolfenpyrad	0.0020	U	ug/L	P419841	
		Triclopyr	0.0040	U	ug/L	P419841	
2357070	EPA 8270E	Aldrin	0.67	U	ng/L	P419543	
		Alpha-BHC	0.10	U	ng/L	P419543	
		Alpha-Chlordane	0.21	U	ng/L	P419543	
		PCB-1016	2.1	U	ng/L	P419543	
		Beta-BHC	0.10	U	ng/L	P419543	
		PCB-1221	2.1	U	ng/L	P419543	
		Beta-Cyfluthrin	1.3	U	ng/L	P419543	
		PCB-1232	2.1	U	ng/L	P419543	
		Bifenthrin	0.52	U	ng/L	P419543	
		PCB-1242	2.1	U	ng/L	P419543	
		PCB-1248	2.1	U	ng/L	P419543	
		Chlorothalonil	1.3	U	ng/L	P419543	
		PCB-1254	2.1	U	ng/L	P419543	
		Cis-Nonachlor	0.21	U	ng/L	P419543	
		PCB-1260	2.1	U	ng/L	P419543	
		Cypermethrin	1.6	U	ng/L	P419543	
		Dacthal	0.16	U	ng/L	P419543	
		DDD-p,p'	0.26	U	ng/L	P419543	
		DDE-p,p'	0.21	U	ng/L	P419543	
		DDT-p,p'	0.26	U	ng/L	P419543	
		Delta-BHC	0.41	U	ng/L	P419543	
		Deltamethrin	1.3	UJ	ng/L	P419543	CCV
		Dichlobenil	0.26	U	ng/L	P419543	
		Dicofol	1.3	U	ng/L	P419543	
		Dieldrin	1.1	I	ng/L	P419543	
		Endosulfan I	0.41	U	ng/L	P419543	
		Endosulfan II	0.41	U	ng/L	P419543	
		Endosulfan Sulfate	0.31	U	ng/L	P419543	
		Endrin	0.41	U	ng/L	P419543	
		Endrin Aldehyde	0.78	U	ng/L	P419543	
		Endrin Ketone	0.41	U	ng/L	P419543	MS
		Esfenvalerate	0.78	U	ng/L	P419543	
		Ethalfluralin	0.16	U	ng/L	P419543	

Field ID: G3TLHR0040 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2357070	EPA 8270E	Fenpropathrin	0.26	U	ng/L	P419543	
		Gamma-BHC	0.13	U	ng/L	P419543	
		Gamma-Chlordane	0.21	U	ng/L	P419543	
		Heptachlor	0.21	U	ng/L	P419543	
		Heptachlor Epoxide	0.30	I	ng/L	P419543	
		Hexachlorobenzene**	1.0	U	ng/L	P419543	
		Kepone	5.2	U	ng/L	P419543	
		Lambda-Cyhalothrin	0.78	U	ng/L	P419543	
		Methoprene	0.78	U	ng/L	P419543	
		Methoxychlor	0.31	U	ng/L	P419543	
		MGK-264	0.21	U	ng/L	P419543	
		Mirex	0.36	U	ng/L	P419543	
		Oxychlordane	0.31	U	ng/L	P419543	
		Permethrin	1.7	U	ng/L	P419543	
		Phenothrin	0.93	U	ng/L	P419543	
		Piperonyl Butoxide	0.43	I	ng/L	P419543	
		Prallethrin	2.1	U	ng/L	P419543	
		Tau-Fluvalinate	0.26	U	ng/L	P419543	
		Tetramethrin	0.78	U	ng/L	P419543	
		Trans-Nonachlor	0.21	U	ng/L	P419543	
		Triclosan Methyl	0.16	U	ng/L	P419543	
		Trifluralin	0.21	U	ng/L	P419543	
	EPA 8276	Chlordane	2.6	U	ng/L	P419543	
		Toxaphene	16	U	ng/L	P419543	
2357071	EPA 8270E	Oxybenzone**	9.7	U	ng/L	P419712	
		Acetochlor	0.24	U	ng/L	P419712	
		Octinoxate**	19	U	ng/L	P419712	RPD
		Alachlor	0.24	U	ng/L	P419712	
		Avobenzone**	97	U	ng/L	P419712	
		Ametryn	0.58	U	ng/L	P419712	
		Atrazine	1.5		ng/L	P419712	
		PBDE-47**	3.9	U	ng/L	P419712	
		Atrazine Desethyl	1.5	U	ng/L	P419712	
		PBDE-99**	4.8	U	ng/L	P419712	MS
		Azinphos Methyl	1.9	U	ng/L	P419712	
		Tri-o-cresyl Phosphate**	5.8	U	ng/L	P419712	RPD
		Azoxystrobin	0.48	U	ng/L	P419712	
		Bromacil	3.0		ng/L	P419712	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P419712	MS
		Butylate	0.39	U	ng/L	P419712	
		Dechlorane Plus**	29	U	ng/L	P419712	
		Caffeine**	8.7	I	ng/L	P419712	
		Carbophenothion	0.19	U	ng/L	P419712	
		Carfentrazone Ethyl	0.097	U	ng/L	P419712	

Field ID: G3TLHR0040 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2357071	EPA 8270E	Chlorfenapyr	0.17	U	ng/L	P419712	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P419712	
		Chlorpyrifos Methyl	0.048	U	ng/L	P419712	
		Coumaphos	0.48	U	ng/L	P419712	MS
		Cyanazine	3.1	U	ng/L	P419712	
		Cyprodinil	0.097	U	ng/L	P419712	
		Demeton	1.5	U	ng/L	P419712	
		Diazinon	0.12	U	ng/L	P419712	
		Difenoconazole	0.58	U	ng/L	P419712	
		Dimethenamid	0.097	U	ng/L	P419712	
		Dimethomorph	0.17	U	ng/L	P419712	MS, RPD
		Disulfoton	0.48	U	ng/L	P419712	
		Dithiopyr	0.30	I V	ng/L	P419712	
		EPTC	1.2	U	ng/L	P419712	
		Ethion	0.15	U	ng/L	P419712	
		Ethoprop	0.097	U	ng/L	P419712	
		Etridiazole	0.15	U	ng/L	P419712	
		Fenamiphos	0.48	U	ng/L	P419712	
		Fenbuconazole	0.12	U	ng/L	P419712	
		Fipronil	0.41	I	ng/L	P419712	
		Fipronil Desulfinyl**	0.22	I	ng/L	P419712	
		Fipronil Sulfide	0.42	I	ng/L	P419712	
		Fipronil Sulfone	1.0		ng/L	P419712	
		Fluazifop-P-butyl	0.097	U	ng/L	P419712	
		Fludioxonil	0.12	U	ng/L	P419712	
		Flumioxazin	1.7	U	ng/L	P419712	
		Flutolanil	0.097	U	ng/L	P419712	
		Fluxapyroxad	0.097	U	ng/L	P419712	
		Fonofos	0.19	U	ng/L	P419712	
		Hexazinone	0.48	U	ng/L	P419712	
		Imazalil	0.73	U	ng/L	P419712	
		Iprodione	0.58	U	ng/L	P419712	
		Loratadine**	0.097	U	ng/L	P419712	MS, RPD
		Malathion	0.34	U	ng/L	P419712	
		Metalaxyl	0.73	U	ng/L	P419712	
		Metolachlor	0.34	U	ng/L	P419712	
		Metribuzin	2.4	U	ng/L	P419712	
		Mevinphos	1.0	U	ng/L	P419712	
		Molinate	0.29	U	ng/L	P419712	
		Myclobutanil	0.24	U	ng/L	P419712	
		Naled	1.5	U	ng/L	P419712	
		Napropamide	0.39	U	ng/L	P419712	
		Norflurazon	0.48	U	ng/L	P419712	
		Oxadiazon	0.62	I	ng/L	P419712	
		Oxyfluorfen	0.15	U	ng/L	P419712	

Field ID: G3TLHR0040 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2357071	EPA 8270E	Parathion Ethyl	0.24	U	ng/L	P419712	
		Parathion Methyl	0.53	U	ng/L	P419712	
		Pendimethalin	0.97	U	ng/L	P419712	
		Phenytoin**	3.4	U	ng/L	P419712	MS
		Phorate	0.51	U	ng/L	P419712	
		Prodiamine	0.17	U	ng/L	P419712	
		Prometon	0.87	U	ng/L	P419712	
		Prometryn	0.19	U	ng/L	P419712	
		Pronamide	0.15	U	ng/L	P419712	
		Propanil	0.12	U	ng/L	P419712	
		Propargite	1.5	UJ	ng/L	P419712	LCS, MS
		Propiconazole	0.48	U	ng/L	P419712	
		Pyraflufen Ethyl	0.24	U	ng/L	P419712	
		Pyridaben	0.44	U	ng/L	P419712	MS
		Pyriproxyfen	0.12	U	ng/L	P419712	
		Simazine	0.48	U	ng/L	P419712	
		Stirophos	0.12	U	ng/L	P419712	MS, RPD
		Sulfentrazone	1.8	I	ng/L	P419712	
		Tebuconazole	0.66	I	ng/L	P419712	
		Terbufos	0.097	U	ng/L	P419712	
		Terbuthylazine	0.41	U	ng/L	P419712	
		Thiobencarb	0.58	U	ng/L	P419712	
		Triadimefon	0.24	U	ng/L	P419712	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: V - Due to the presence of dithiopyr in one of the Method Blanks and the sample. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Parker Bayou @ Mouth **Collection Date/Time: 09/15/2022 13:25**

Field ID: G3TLHR0043 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2357051	EPA 180.1 Rev. 2.0	Turbidity	2.9		NTU	P419746	
	SM 2320 B-2011	Total Alkalinity	35		mg CaCO3/L	P419966	
	SM 2540 D-2011	TSS	4	I	mg/L	P420146	
	SM 4500-F- C-2011	Fluoride	0.32		mg F/L	P419968	
2357052	EPA 350.1 Rev. 2.0	Ammonia-N	0.052		mg N/L	P419913	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.63		mg N/L	P419936	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.035		mg N/L	P420067	
	EPA 365.1 Rev. 2.0	Total-P	0.019		mg P/L	P419931	
	SM 5310 B-2011	Organic Carbon	17		mg C/L	P419800	
2357069	EPA 8321B	2,4-D	0.0020	U	ug/L	P419841	
		Acesulfame K	0.10	U	ug/L	P419612	
		2,4,5-T	0.0040	U	ug/L	P419841	
		AMPA	10	U	ug/L	P419612	
		Acetaminophen	0.0080	U	ug/L	P419841	
		Acetamiprid	0.0020	U	ug/L	P419841	
		Endothall	0.25	U	ug/L	P419612	
		Glufosinate	10	U	ug/L	P419612	
		Glyphosate	10	U	ug/L	P419612	
		Afidopyropen	0.0020	U	ug/L	P419841	
		Bentazon	8.0E-04	U	ug/L	P419841	
		Sucralose	0.057		ug/L	P419612	
		Benzovindiflupyr	0.0020	U	ug/L	P419841	
		Carbamazepine	8.0E-04	U	ug/L	P419841	
		Clothianidin	0.0020	U	ug/L	P419841	
		Dinotefuran	0.0020	U	ug/L	P419841	
		Diuron	0.0020	U	ug/L	P419841	
		Fenuron	0.016	U	ug/L	P419841	
		Fluridone	8.0E-04	U	ug/L	P419841	
		Imazapyr	0.37		ug/L	P419841	
		Hydrocodone	0.0020	U	ug/L	P419841	
		Ibuprofen	0.020	U	ug/L	P419841	
		Imidacloprid	0.0036	I	ug/L	P419841	
		Linuron	0.0040	U	ug/L	P419841	
		Mandestrobin	0.0020	U	ug/L	P419841	
		MCPP	0.0020	U	ug/L	P419841	
		Naproxen	0.0080	U	ug/L	P419841	
		Primidone	0.0040	U	ug/L	P419841	
		Pyraclostrobin	0.0020	U	ug/L	P419841	
		Silvex	0.0040	U	ug/L	P419841	
		Thiamethoxam	0.0020	U	ug/L	P419841	
		Tolfenpyrad	0.0020	U	ug/L	P419841	
		Triclopyr	0.0040	U	ug/L	P419841	

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: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.
EPA 8321B: Some MDLs are elevated due to required dilution of sample matrix.

Sample Location: Parker Bayou Continuous Monitoring **Collection Date/Time: 09/15/2022 13:35**

Field ID: G3TLHR0018 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2357049	EPA 180.1 Rev. 2.0	Turbidity	3.8		NTU	P419746	
	SM 2320 B-2011	Total Alkalinity	41		mg CaCO3/L	P419966	
	SM 2540 D-2011	TSS	2	I	mg/L	P420146	
	SM 4500-F- C-2011	Fluoride	0.25		mg F/L	P419968	
2357050	EPA 350.1 Rev. 2.0	Ammonia-N	0.074		mg N/L	P419913	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.60		mg N/L	P419936	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.034		mg N/L	P420067	
	EPA 365.1 Rev. 2.0	Total-P	0.031		mg P/L	P419835	
	SM 5310 B-2011	Organic Carbon	14		mg C/L	P419800	

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: Boggy Creek @ SR22 **Collection Date/Time: 09/15/2022 13:55**

Field ID: G3TLHR0015 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2357045	DEP SOP: NU-094-1	Color (true)	260		PCU	P419733	
	EPA 180.1 Rev. 2.0	Turbidity	4.3		NTU	P419746	
	EPA 300.0 Rev. 2.1	Chloride	3.9		mg Cl/L	P420088	
		Sulfate	0.33	I	mg SO4/L	P420093	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P420275	
	SM 2540 C-2011	TDS	37		mg/L	P420188	
	SM 2540 D-2011	TSS	4	I	mg/L	P420145	
	SM 4500-F- C-2011	Fluoride	0.035	U	mg F/L	P420214	MS
2357046	EPA 350.1 Rev. 2.0	Ammonia-N	0.016		mg N/L	P420112	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.73		mg N/L	P419938	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	I	mg N/L	P420162	
	EPA 365.1 Rev. 2.0	Total-P	0.018		mg P/L	P419838	
	SM 5310 B-2011	Organic Carbon	22		mg C/L	P419800	

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: P419733

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P419746

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420088

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420089

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420093

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420094

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419913

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P420112

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419936

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419937

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419938

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420067

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420162

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419835

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419838

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419931

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

Reference Method: EPA 8270E
Batch ID: P419543

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P419543

Component	Result	Code	Units
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
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P419543

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P419712

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
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
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P419712

Component	Result	Code	Units
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
Dithiopyr	0.19	I	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
Metolachlor	0.35	U	ng/L
Metribuzin	2.5	U	ng/L
Metribuzin	2.5	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P419712

Component	Result	Code	Units
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
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P419712

Component	Result	Code	Units
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
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8276
Batch ID: P419543

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: P419612

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: P419676

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P419676

Component	Result	Code	Units
Methomyl	0.0020	U	ug/L
Oxamyl	0.0020	U	ug/L
Propoxur	0.0020	U	ug/L

Reference Method: EPA 8321B
Batch ID: P419841

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	0.016	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: SM 2320 B-2011
Batch ID: P419966

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

Reference Method: SM 2320 B-2011
Batch ID: P420275

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

Reference Method: SM 2540 C-2011
Batch ID: P420188

Component	Result	Code	Units

Quality Assurance Report
Method Blank Results

Reference Method: SM 2540 C-2011
Batch ID: P420188

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P420145

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P420146

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P420148

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P419968

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P420214

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P419800

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

Reference Method: SM 5310 B-2011
Batch ID: P420035

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: P419733

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	100		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P419746

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420088

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420089

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420093

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420094

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419913

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P420112

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419936

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	97.9		P	90 - 110

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419937

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419938

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420067

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420162

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	97.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419835

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419838

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419931

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

Reference Method: EPA 8270E
Batch ID: P419543

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	57.0		P	10 - 92.0
Alpha-BHC	93.4		P	75 - 107
Alpha-Chlordane	76.0		P	50 - 108
Beta-BHC	109		P	36 - 138
Beta-Cyfluthrin	88.3		P	20 - 161
Bifenthrin	69.3		P	10 - 119
Chlorothalonil	79.3		P	26 - 186
Cis-Nonachlor	72.6		P	42 - 119
Cypermethrin	91.1		P	22 - 150
Dacthal	87.8		P	72 - 119

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P419543

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
DDD-p,p'	72.5		P	45 - 107
DDE-p,p'	72.7		P	48 - 106
DDT-p,p'	74.3		P	48 - 110
Delta-BHC	116		P	54 - 140
Deltamethrin	85.1		P	22 - 189
Dichlobenil	83.8		P	36 - 117
Dicofol	73.1		P	46 - 155
Dieldrin	78.6		P	54 - 110
Endosulfan I	82.1		P	59 - 105
Endosulfan II	89.7		P	51 - 118
Endosulfan Sulfate	87.3		P	57 - 121
Endrin	75.8		P	10 - 120
Endrin Aldehyde	75.5		P	34 - 118
Endrin Ketone	79.9		P	69 - 177
Esfenvalerate	94.3		P	23 - 168
Ethalfluralin	86.1		P	49 - 99.0
Fenpropathrin	81.5		P	34 - 117
Gamma-BHC	108		P	72 - 117
Gamma-Chlordane	75.7		P	43 - 106
Heptachlor	69.6		P	41 - 98.0
Heptachlor Epoxide	81.6		P	57 - 106
Hexachlorobenzene	75.6		P	36 - 99.0
Kepone	133		P	16 - 215
Lambda-Cyhalothrin	78.2		P	21 - 177
Methoprene	69.5		P	10 - 119
Methoxychlor	87.5		P	60 - 112
MGK-264	77.9		P	26 - 122
Mirex	65.6		P	10 - 169
Oxychlordane	80.1		P	43 - 105
PCB-1016	91.5		P	48 - 112
PCB-1260	85.9		P	44 - 118
Permethrin	90.2		P	24 - 148
Phenothrin	64.5		P	10 - 106
Piperonyl Butoxide	95.0		P	10 - 139
Prallethrin	70.6		P	17 - 109
Tau-Fluvalinate	78.1		P	13 - 131
Tetramethrin	104		P	10 - 132
Trans-Nonachlor	76.6		P	44 - 106
Triclosan Methyl	74.7		P	59 - 109
Trifluralin	78.8		P	44 - 101

Reference Method: EPA 8270E
Batch ID: P419712

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	80.3		P	50 - 150
Acetochlor	97.5		P	70 - 121
Alachlor	93.5		P	68 - 119
Ametryn	83.3		P	64 - 139
Atrazine	98.2		P	76 - 120
Atrazine Desethyl	59.7		P	44 - 126
Avobenzone	76.0		P	76 - 212

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P419712

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Azinphos Methyl	138		P	43 - 192
Azoxystrobin	136		P	36 - 224
Bromacil	68.4		P	52 - 121
Butylate	58.5		P	28 - 91.0
Caffeine	78.0		P	50 - 134
Carbophenothion	90.3		P	56 - 129
Carfentrazone Ethyl	95.2		P	60 - 141
Chlorfenapyr	81.1		P	56 - 115
Chlorpyrifos Ethyl	91.4		P	60 - 118
Chlorpyrifos Methyl	98.4		P	68 - 119
Coumaphos	82.3		P	18 - 250
Cyanazine	87.6		P	61 - 250
Cyprodinil	92.5		P	55 - 145
Dechlorane Plus	95.1		P	50 - 150
Demeton	92.2		P	30 - 159
Diazinon	98.1		P	70 - 123
Difenoconazole	88.1		P	49 - 204
Dimethenamid	67.6		P	64 - 115
Dimethomorph	182		P	12 - 219
Disulfoton	98.2		P	44 - 125
Dithiopyr	86.1		P	64 - 115
EPTC	52.8		P	28 - 86.0
Ethion	36.1		P	33 - 125
Ethoprop	90.5		P	64 - 116
Etridiazole	58.0		P	34 - 91.0
Fenamiphos	96.6		P	12 - 127
Fenbuconazole	86.6		P	59 - 151
Fipronil	89.1		P	67 - 129
Fipronil Desulfinyl	85.6		P	65 - 127
Fipronil Sulfide	67.9		P	61 - 116
Fipronil Sulfone	80.1		P	55 - 117
Fluazifop-P-butyl	86.3		P	62 - 127
Fludioxonil	82.8		P	62 - 128
Flumioxazin	106		P	33 - 250
Flutolanil	82.4		P	56 - 127
Fluxapyroxad	60.7		P	45 - 128
Fonofos	84.1		P	62 - 111
Hexazinone	87.4		P	46 - 139
Imazalil	89.9		P	38 - 142
Iprodione	90.5		P	47 - 135
Loratadine	180		P	10 - 244
Malathion	104		P	61 - 139
Metalaxyl	87.2		P	10 - 119
Metolachlor	93.3		P	65 - 118
Metribuzin	107		P	51 - 250
Mevinphos	70.8		P	53 - 121
Molinate	75.7		P	42 - 96.0
Myclobutanil	81.4		P	55 - 128
Naled	77.9		P	10 - 98.0
Napropamide	65.8		P	49 - 121
Norflurazon	74.3		P	61 - 126
Octinoxate	88.9		P	30 - 159

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P419712

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Oxadiazon	72.9		P	59 - 116
Oxybenzone	83.1		P	61 - 139
Oxyfluorfen	113		P	64 - 137
Parathion Ethyl	99.6		P	70 - 112
Parathion Methyl	115		P	76 - 133
PBDE-47	67.3		P	50 - 150
PBDE-99	76.0		P	50 - 150
Pendimethalin	83.7		P	52 - 117
Phenytoin	11.3		P	10 - 199
Phorate	77.3		P	48 - 121
Prodiamine	59.2		P	26 - 142
Prometon	68.0		P	43 - 123
Prometryn	84.5		P	66 - 127
Pronamide	101		P	75 - 121
Propanil	86.3		P	45 - 150
Propargite	41.1		F	42 - 208
Propiconazole	75.7		P	60 - 125
Pyraflufen Ethyl	75.2		P	70 - 138
Pyridaben	96.0		P	35 - 245
Pyriproxyfen	77.5		P	30 - 149
Simazine	89.2		P	72 - 125
Stirophos	43.1		P	29 - 164
Sulfentrazone	36.8		P	21 - 139
Tebuconazole	31.7		P	10 - 115
Terbufos	109		P	60 - 123
Terbuthylazine	94.4		P	72 - 115
Thiobencarb	91.7		P	31 - 139
Tri-o-cresyl Phosphate	82.3		P	50 - 150
Triadimefon	78.5		P	65 - 116

Reference Method: EPA 8276
Batch ID: P419543

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	82.2		P	61 - 116
Toxaphene	83.4		P	48 - 124

Reference Method: EPA 8321B
Batch ID: P419612

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	115		P	40 - 150
AMPA	105		P	40 - 150
Endothall	98.0		P	40 - 150
Glufosinate	97.9		P	40 - 150
Glyphosate	113		P	40 - 150
Sucralose	110		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P419676

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P419676

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	84.7		P	30 - 160
Aldicarb	73.5		P	30 - 150
Aldicarb Sulfone	89.0		P	30 - 160
Aldicarb Sulfoxide	91.8		P	30 - 160
Carbaryl	68.5		P	30 - 160
Carbofuran	78.1		P	30 - 160
Methiocarb	76.7		P	30 - 160
Methomyl	89.7		P	30 - 160
Oxamyl	90.9		P	30 - 160
Propoxur	75.3		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P419841

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	71.6		P	30 - 160
2,4,5-T	65.9		P	30 - 160
Acetaminophen	99.5		P	30 - 150
Acetamiprid	86.2		P	30 - 160
Afidopyropen	71.1		P	30 - 160
Bentazon	90.7		P	30 - 150
Benzovindiflupyr	84.4		P	30 - 160
Carbamazepine	87.7		P	30 - 160
Clothianidin	98.6		P	30 - 160
Dinotefuran	105		P	30 - 160
Diuron	58.8		P	30 - 160
Fenuron	107		P	30 - 160
Fluridone	92.4		P	30 - 160
Hydrocodone	96.5		P	30 - 160
Ibuprofen	84.4		P	30 - 160
Imazapyr	91.7		P	30 - 160
Imidacloprid	93.3		P	30 - 160
Linuron	91.9		P	30 - 160
Mandestrobin	95.2		P	30 - 160
MCPP	78.9		P	30 - 160
Naproxen	81.2		P	30 - 160
Primidone	95.1		P	30 - 160
Pyraclostrobin	82.2		P	30 - 160
Silvex	61.4		P	30 - 160
Thiamethoxam	92.7		P	30 - 160
Tolfenpyrad	64.9		P	30 - 160
Triclopyr	64.4		P	30 - 160

Reference Method: SM 2320 B-2011
Batch ID: P419966

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	94 - 106

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P420275

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.5		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P419968

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	96 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P420214

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.9		P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P419800

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.4		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P420035

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.4		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420088

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2356905	Chloride	99.1		P	90 - 110
2356920	Chloride	99.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420089

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357095	Chloride	101		P	90 - 110
2357194	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420093

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2356905	Sulfate	97.4		P	90 - 110
2356920	Sulfate	99.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420094

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357095	Sulfate	98.8		P	90 - 110
2357194	Sulfate	99.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419913

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2356878	Ammonia-N	97.6	98.6	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P420112

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357046	Ammonia-N	102	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419936

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357773	Kjeldahl Nitrogen	101	105	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419937

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357285	Kjeldahl Nitrogen	97.5	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419938

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

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419938

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357460	Kjeldahl Nitrogen	103	99.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420067

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2356876	NO2NO3-N	98.5	99.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420162

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2356924	NO2NO3-N	94.6	95.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419835

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2356749	Total-P	103	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419838

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357083	Total-P	108	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419931

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357477	Total-P	96.3	95.7	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P419543

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2356052	Aldrin	50.5	56.8	P/P	20 - 82.0
2356052	Alpha-BHC	95.7	93.9	P/P	71 - 109
2356052	Alpha-Chlordane	64.4	74.3	P/P	42 - 106
2356052	Beta-BHC	117	152	P/P	69 - 180
2356052	Beta-Cyfluthrin	72.1	91.1	P/P	18 - 175
2356052	Bifenthrin	56.9	72.3	P/P	21 - 128
2356052	Chlorothalonil	74.4	72.7	P/P	10 - 300
2356052	Cis-Nonachlor	58.2	66.5	P/P	34 - 106
2356052	Cypermethrin	73.7	88.0	P/P	22 - 158
2356052	Dacthal	86.8	93.4	P/P	54 - 116
2356052	DDD-p,p'	63.3	71.8	P/P	34 - 107
2356052	DDE-p,p'	64.2	77.0	P/P	33 - 110
2356052	DDT-p,p'	64.8	71.6	P/P	50 - 122
2356052	Delta-BHC	128	163	P/P	77 - 193
2356052	Deltamethrin	74.7	84.8	P/P	10 - 195
2356052	Dichlobenil	70.3	72.0	P/P	25 - 113

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P419543

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2356052	Dicofol	65.6	74.2	P/P	38 - 247
2356052	Dieldrin	67.0	79.6	P/P	45 - 118
2356052	Endosulfan I	70.8	83.0	P/P	51 - 106
2356052	Endosulfan II	86.8	99.7	P/P	37 - 122
2356052	Endosulfan Sulfate	76.6	90.8	P/P	43 - 132
2356052	Endrin	67.5	80.2	P/P	29 - 101
2356052	Endrin Aldehyde	65.1	64.8	P/P	19 - 110
2356052	Endrin Ketone	60.5	51.5	P/F	60 - 140
2356052	Esfenvalerate	72.5	95.4	P/P	26 - 199
2356052	Ethalfluralin	72.1	80.1	P/P	45 - 99.0
2356052	Fenpropathrin	67.1	82.5	P/P	35 - 120
2356052	Gamma-BHC	119	111	P/P	63 - 128
2356052	Gamma-Chlordane	65.9	81.0	P/P	40 - 104
2356052	Heptachlor	61.4	69.3	P/P	36 - 97.0
2356052	Heptachlor Epoxide	72.1	82.2	P/P	49 - 184
2356052	Hexachlorobenzene	67.5	74.5	P/P	39 - 96.0
2356052	Kepone	100	126	P/P	10 - 217
2356052	Lambda-Cyhalothrin	76.8	94.6	P/P	21 - 193
2356052	Methoprene	55.7	72.0	P/P	20 - 106
2356052	Methoxychlor	77.8	86.4	P/P	53 - 118
2356052	MGK-264	77.9	84.0	P/P	40 - 118
2356052	Mirex	55.0	69.1	P/P	26 - 92.0
2356052	Oxychlordane	69.7	82.6	P/P	44 - 99.0
2356052	Permethrin	74.4	87.7	P/P	33 - 182
2356052	Phenothrin	55.1	72.1	P/P	10 - 129
2356052	Piperonyl Butoxide	87.6	98.6	P/P	10 - 211
2356052	Prallethrin	63.9	73.9	P/P	24 - 113
2356052	Tau-Fluvalinate	61.1	83.4	P/P	14 - 149
2356052	Tetramethrin	102	127	P/P	17 - 151
2356052	Trans-Nonachlor	60.6	79.3	P/P	42 - 102
2356052	Triclosan Methyl	68.1	79.5	P/P	48 - 108
2356052	Trifluralin	68.6	79.9	P/P	47 - 96.0
2356612	PCB-1016	78.7	88.3	P/P	46 - 111
2356612	PCB-1260	74.8	77.8	P/P	45 - 114

Reference Method: EPA 8270E
Batch ID: P419712

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2356916	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	43.8	58.5	F/P	50 - 150
2356916	Acetochlor	90.5	99.8	P/P	65 - 124
2356916	Alachlor	81.8	91.4	P/P	61 - 121
2356916	Ametryn	67.8	76.4	P/P	52 - 216
2356916	Atrazine	89.2	103	P/P	68 - 133
2356916	Atrazine Desethyl	56.3	69.1	P/P	15 - 160
2356916	Avobenzone	61.9	77.1	P/P	59 - 206
2356916	Azinphos Methyl	105	115	P/P	40 - 292
2356916	Azoxystrobin	98.5	139	P/P	12 - 242
2356916	Bromacil	79.1	94.0	P/P	54 - 167
2356916	Butylate	34.7	41.0	P/P	14 - 94.0
2356916	Caffeine	84.1	76.5	P/P	10 - 226
2356916	Carbophenothion	76.6	76.2	P/P	49 - 122

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P419712

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2356916	Carfentrazone Ethyl	81.4	76.9	P/P	53 - 138
2356916	Chlorfenapyr	64.0	64.6	P/P	50 - 150
2356916	Chlorpyrifos Ethyl	71.7	67.7	P/P	52 - 122
2356916	Chlorpyrifos Methyl	72.2	81.0	P/P	66 - 117
2356916	Coumaphos	39.0	32.8	F/F	50 - 220
2356916	Cyanazine	74.2	77.1	P/P	43 - 245
2356916	Cyprodinil	73.1	69.9	P/P	50 - 150
2356916	Dechlorane Plus	54.4	65.7	P/P	50 - 150
2356916	Demeton	89.4	106	P/P	43 - 188
2356916	Diazinon	90.4	102	P/P	69 - 131
2356916	Difenoconazole	100	87.6	P/P	34 - 231
2356916	Dimethenamid	71.2	69.5	P/P	55 - 118
2356916	Dimethomorph	109	189	P/F	50 - 150
2356916	Disulfoton	77.7	84.3	P/P	38 - 141
2356916	Dithiopyr	62.2	70.6	P/P	42 - 116
2356916	EPTC	33.1	41.1	P/P	18 - 85.0
2356916	Ethion	76.7	36.3	P/P	10 - 131
2356916	Ethoprop	80.9	87.5	P/P	65 - 129
2356916	Etridiazole	50.6	61.6	P/P	50 - 150
2356916	Fenamiphos	79.7	78.4	P/P	31 - 137
2356916	Fenbuconazole	78.8	83.8	P/P	57 - 160
2356916	Fipronil	86.7	87.9	P/P	62 - 132
2356916	Fipronil Desulfinyl	74.8	75.7	P/P	57 - 131
2356916	Fipronil Sulfide	65.9	72.1	P/P	15 - 138
2356916	Fipronil Sulfone	74.5	75.5	P/P	21 - 134
2356916	Fluazifop-P-butyl	78.4	75.6	P/P	54 - 133
2356916	Fludioxonil	76.4	73.9	P/P	58 - 127
2356916	Flumioxazin	120	117	P/P	33 - 300
2356916	Flutolanil	73.9	69.0	P/P	42 - 130
2356916	Fluxapyroxad	68.9	62.3	P/P	23 - 141
2356916	Fonofos	71.0	74.0	P/P	58 - 119
2356916	Hexazinone	97.2	103	P/P	68 - 172
2356916	Imazalil	100	90.4	P/P	48 - 283
2356916	Iprodione	81.9	80.6	P/P	38 - 140
2356916	Loratadine	103	176	P/F	50 - 150
2356916	Malathion	84.0	88.5	P/P	40 - 137
2356916	Metalaxyl	75.1	75.9	P/P	21 - 129
2356916	Metolachlor	80.8	84.8	P/P	55 - 122
2356916	Metribuzin	86.8	105	P/P	38 - 187
2356916	Mevinphos	63.2	72.3	P/P	54 - 134
2356916	Molinate	60.4	64.6	P/P	41 - 97.0
2356916	Myclobutanil	82.3	74.3	P/P	56 - 125
2356916	Naled	92.6	91.4	P/P	10 - 108
2356916	Napropamide	67.9	54.1	P/P	50 - 150
2356916	Norflurazon	91.7	94.1	P/P	32 - 122
2356916	Octinoxate	63.7	92.0	P/P	25 - 150
2356916	Oxadiazon	73.3	69.7	P/P	40 - 119
2356916	Oxybenzone	61.7	75.4	P/P	59 - 147
2356916	Oxyfluorfen	111	104	P/P	61 - 153
2356916	Parathion Ethyl	84.6	94.8	P/P	59 - 130
2356916	Parathion Methyl	93.0	121	P/P	65 - 155
2356916	PBDE-47	56.4	70.3	P/P	50 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P419712

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2356916	PBDE-99	44.4	55.1	F/P	50 - 150
2356916	Pendimethalin	75.4	81.6	P/P	49 - 138
2356916	Phenytoin	28.7	25.0	F/F	50 - 200
2356916	Phorate	76.1	70.2	P/P	54 - 161
2356916	Prodiamine	56.0	69.2	P/P	33 - 161
2356916	Prometon	77.4	81.1	P/P	48 - 140
2356916	Prometryn	67.8	68.7	P/P	55 - 134
2356916	Pronamide	95.1	98.7	P/P	66 - 137
2356916	Propanil	83.2	86.4	P/P	50 - 150
2356916	Propargite	59.2	45.2	P/F	50 - 200
2356916	Propiconazole	60.5	64.1	P/P	36 - 150
2356916	Pyraflufen Ethyl	58.2	60.6	P/P	50 - 150
2356916	Pyridaben	55.2	40.9	P/F	50 - 200
2356916	Pyriproxyfen	67.6	68.3	P/P	10 - 165
2356916	Simazine	82.6	95.1	P/P	57 - 145
2356916	Stirophos	51.1	31.4	P/F	50 - 150
2356916	Sulfentrazone	77.2	82.9	P/P	34 - 140
2356916	Tebuconazole	45.8	30.3	P/P	10 - 127
2356916	Terbufos	91.2	101	P/P	59 - 138
2356916	Terbuthylazine	88.0	99.1	P/P	68 - 119
2356916	Thiobencarb	76.3	85.5	P/P	50 - 150
2356916	Tri-o-cresyl Phosphate	60.2	84.9	P/P	50 - 150
2356916	Triadimefon	73.4	65.2	P/P	50 - 150

Reference Method: EPA 8276
Batch ID: P419543

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2356612	Chlordane	78.5	84.0	P/P	53 - 126
2356612	Toxaphene	71.3	79.9	P/P	56 - 211

Reference Method: EPA 8321B
Batch ID: P419612

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2356572	Acesulfame K	110	109	P/P	40 - 150
2356572	AMPA	103	94.6	P/P	40 - 150
2356572	Endothall	99.4	97.9	P/P	40 - 150
2356572	Glufosinate	85.8	91.8	P/P	40 - 150
2356572	Glyphosate	117	115	P/P	40 - 150
2356572	Sucralose	105	103	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P419676

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2356891	3-Hydroxycarbofuran	96.6	117	P/P	30 - 160
2356891	Aldicarb	60.5	76.1	P/P	30 - 150
2356891	Aldicarb Sulfone	108	116	P/P	30 - 160
2356891	Aldicarb Sulfoxide	65.5	71.6	P/P	30 - 160
2356891	Carbaryl	66.5	70.4	P/P	30 - 160
2356891	Carbofuran	72.8	70.0	P/P	30 - 160

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P419676

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2356891	Methiocarb	82.2	82.1	P/P	30 - 160
2356891	Methomyl	92.1	103	P/P	30 - 160
2356891	Oxamyl	97.1	105	P/P	30 - 160
2356891	Propoxur	64.8	69.8	P/P	30 - 160

Reference Method: EPA 8321B
Batch ID: P419841

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2356890	2,4-D	97.8	107	P/P	30 - 160
2356890	2,4,5-T	86.4	83.7	P/P	30 - 160
2356890	Acetaminophen	119	119	P/P	30 - 150
2356890	Acetamiprid	60.8	60.4	P/P	30 - 160
2356890	Afidopyropen	89.0	82.7	P/P	30 - 160
2356890	Benzovindiflupyr	79.8	79.4	P/P	30 - 160
2356890	Carbamazepine	69.7	70.2	P/P	30 - 160
2356890	Clothianidin	111	119	P/P	30 - 160
2356890	Dinotefuran	114	116	P/P	30 - 160
2356890	Diuron	51.9	50.9	P/P	30 - 160
2356890	Fenuron	96.6	94.4	P/P	30 - 160
2356890	Fluridone	96.5	88.1	P/P	30 - 160
2356890	Hydrocodone	100	101	P/P	30 - 160
2356890	Ibuprofen	81.4	92.6	P/P	30 - 160
2356890	Linuron	78.6	73.5	P/P	30 - 160
2356890	Mandestrobin	91.4	97.4	P/P	30 - 160
2356890	MCPP	89.3	96.1	P/P	30 - 160
2356890	Naproxen	102	95.2	P/P	30 - 160
2356890	Primidone	103	120	P/P	30 - 160
2356890	Pyraclostrobin	91.0	91.2	P/P	30 - 160
2356890	Silvex	85.6	89.3	P/P	30 - 160
2356890	Thiamethoxam	140	141	P/P	30 - 160
2356890	Tolfenpyrad	64.7	67.5	P/P	30 - 160
2356890	Triclopyr	79.8	94.7	P/P	30 - 160

Reference Method: SM 4500-F- C-2011
Batch ID: P419968

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2356392	Fluoride	95.7	97.9	P/P	94 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P420214

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357377	Fluoride	105	106	F/F	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P419800

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2356813	Organic Carbon	96.0	95.3	P/P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P420035

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357647	Organic Carbon	95.5	94.0	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P419733

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357163	Color (true)	0.379	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P419746

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357047	Turbidity	3.42	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420088

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2356905	Chloride	0.124	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420089

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357095	Chloride	0.287	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420093

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2356905	Sulfate	0.116	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420094

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357095	Sulfate	0.287	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419913

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2356878	Ammonia-N	0.576	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P420112

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357046	Ammonia-N	0.888	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419936

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357773	Kjeldahl Nitrogen	3.65	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419937

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357285	Kjeldahl Nitrogen	3.15	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419938

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357460	Kjeldahl Nitrogen	2.09	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420067

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2356876	NO2NO3-N	0.456	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420162

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2356924	NO2NO3-N	0.487	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419835

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2356749	Total-P	2.26	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419838

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357083	Total-P	2.93	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419931

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357477	Total-P	0.529	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P419543

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2356052	Aldrin	11.6	Spike	P	0 - 41
2356052	Alpha-BHC	1.90	Spike	P	0 - 25
2356052	Alpha-Chlordane	14.3	Spike	P	0 - 33
2356052	Beta-BHC	25.9	Spike	P	0 - 36
2356052	Beta-Cyfluthrin	23.3	Spike	P	0 - 42
2356052	Bifenthrin	23.8	Spike	P	0 - 53
2356052	Chlorothalonil	2.23	Spike	P	0 - 71
2356052	Cis-Nonachlor	13.3	Spike	P	0 - 29
2356052	Cypermethrin	17.7	Spike	P	0 - 40
2356052	Dacthal	7.29	Spike	P	0 - 26
2356052	DDD-p,p'	12.6	Spike	P	0 - 39
2356052	DDE-p,p'	18.1	Spike	P	0 - 33
2356052	DDT-p,p'	9.99	Spike	P	0 - 40
2356052	Delta-BHC	24.0	Spike	P	0 - 37
2356052	Deltamethrin	12.6	Spike	P	0 - 100
2356052	Dichlobenil	2.32	Spike	P	0 - 40
2356052	Dicofol	12.3	Spike	P	0 - 31
2356052	Dieldrin	17.2	Spike	P	0 - 27
2356052	Endosulfan I	15.8	Spike	P	0 - 23
2356052	Endosulfan II	13.8	Spike	P	0 - 28
2356052	Endosulfan Sulfate	17.0	Spike	P	0 - 38
2356052	Endrin	17.3	Spike	P	0 - 63
2356052	Endrin Aldehyde	0.413	Spike	P	0 - 60
2356052	Endrin Ketone	16.2	Spike	P	0 - 37
2356052	Esfenvalerate	27.3	Spike	P	0 - 52
2356052	Ethalfluralin	10.6	Spike	P	0 - 23
2356052	Fenpropathrin	20.7	Spike	P	0 - 32
2356052	Gamma-BHC	7.31	Spike	P	0 - 17
2356052	Gamma-Chlordane	20.6	Spike	P	0 - 40
2356052	Heptachlor	12.0	Spike	P	0 - 29
2356052	Heptachlor Epoxide	13.1	Spike	P	0 - 25
2356052	Hexachlorobenzene	9.98	Spike	P	0 - 36
2356052	Kepone	22.8	Spike	P	0 - 93
2356052	Lambda-Cyhalothrin	20.8	Spike	P	0 - 55
2356052	Methoprene	25.5	Spike	P	0 - 53
2356052	Methoxychlor	10.5	Spike	P	0 - 29
2356052	MGK-264	7.53	Spike	P	0 - 35
2356052	Mirex	22.8	Spike	P	0 - 46
2356052	Oxychlordane	17.0	Spike	P	0 - 29
2356052	Permethrin	16.5	Spike	P	0 - 44
2356052	Phenothrin	26.8	Spike	P	0 - 56
2356052	Piperonyl Butoxide	11.8	Spike	P	0 - 100
2356052	Prallethrin	14.5	Spike	P	0 - 42
2356052	Tau-Fluvalinate	30.9	Spike	P	0 - 54
2356052	Tetramethrin	21.5	Spike	P	0 - 51
2356052	Trans-Nonachlor	26.7	Spike	P	0 - 37
2356052	Triclosan Methyl	15.4	Spike	P	0 - 31
2356052	Trifluralin	15.2	Spike	P	0 - 30
2356612	PCB-1016	11.4	Spike	P	0 - 32
2356612	PCB-1260	3.97	Spike	P	0 - 31

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P419712

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2356916	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	28.6	Spike	P	0 - 30
2356916	Acetochlor	9.70	Spike	P	0 - 27
2356916	Alachlor	11.1	Spike	P	0 - 27
2356916	Ametryn	6.32	Spike	P	0 - 34
2356916	Atrazine	11.2	Spike	P	0 - 41
2356916	Atrazine Desethyl	20.3	Spike	P	0 - 38
2356916	Avobenzone	21.8	Spike	P	0 - 30
2356916	Azinphos Methyl	9.67	Spike	P	0 - 62
2356916	Azoxystrobin	28.5	Spike	P	0 - 32
2356916	Bromacil	9.57	Spike	P	0 - 30
2356916	Butylate	16.8	Spike	P	0 - 59
2356916	Caffeine	9.14	Spike	P	0 - 60
2356916	Carbophenothion	0.494	Spike	P	0 - 25
2356916	Carfentrazone Ethyl	5.59	Spike	P	0 - 26
2356916	Chlorfenapyr	0.890	Spike	P	0 - 30
2356916	Chlorpyrifos Ethyl	5.83	Spike	P	0 - 27
2356916	Chlorpyrifos Methyl	11.4	Spike	P	0 - 26
2356916	Coumaphos	17.5	Spike	P	0 - 30
2356916	Cyanazine	3.82	Spike	P	0 - 58
2356916	Cyprodinil	4.42	Spike	P	0 - 30
2356916	Dechlorane Plus	18.7	Spike	P	0 - 30
2356916	Demeton	17.2	Spike	P	0 - 25
2356916	Diazinon	12.3	Spike	P	0 - 29
2356916	Difenoconazole	13.5	Spike	P	0 - 25
2356916	Dimethenamid	2.37	Spike	P	0 - 30
2356916	Dimethomorph	54.0	Spike	F	0 - 30
2356916	Disulfoton	8.07	Spike	P	0 - 33
2356916	Dithiopyr	11.5	Spike	P	0 - 22
2356916	EPTC	21.6	Spike	P	0 - 38
2356916	Ethion	71.5	Spike	P	0 - 79
2356916	Ethoprop	7.85	Spike	P	0 - 23
2356916	Etridiazole	19.5	Spike	P	0 - 30
2356916	Fenamiphos	1.63	Spike	P	0 - 58
2356916	Fenbuconazole	6.19	Spike	P	0 - 37
2356916	Fipronil	1.43	Spike	P	0 - 33
2356916	Fipronil Desulfinyl	1.27	Spike	P	0 - 26
2356916	Fipronil Sulfide	9.09	Spike	P	0 - 37
2356916	Fipronil Sulfone	1.34	Spike	P	0 - 50
2356916	Fluazifop-P-butyl	3.54	Spike	P	0 - 24
2356916	Fludioxonil	3.23	Spike	P	0 - 26
2356916	Flumioxazin	3.28	Spike	P	0 - 37
2356916	Flutolanil	6.72	Spike	P	0 - 26
2356916	Fluxapyroxad	10.1	Spike	P	0 - 34
2356916	Fonofos	4.12	Spike	P	0 - 27
2356916	Hexazinone	6.19	Spike	P	0 - 36
2356916	Imazalil	10.4	Spike	P	0 - 65
2356916	Iprodione	1.62	Spike	P	0 - 33
2356916	Loratadine	52.5	Spike	F	0 - 30
2356916	Malathion	5.23	Spike	P	0 - 44
2356916	Metalaxyl	0.904	Spike	P	0 - 38
2356916	Metolachlor	4.83	Spike	P	0 - 36

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P419712

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2356916	Metribuzin	18.7	Spike	P	0 - 63
2356916	Mevinphos	13.5	Spike	P	0 - 26
2356916	Molinate	6.61	Spike	P	0 - 40
2356916	Myclobutanil	10.2	Spike	P	0 - 21
2356916	Naled	1.29	Spike	P	0 - 26
2356916	Napropamide	22.7	Spike	P	0 - 30
2356916	Norflurazon	1.50	Spike	P	0 - 24
2356916	Octinoxate	36.4	Spike	F	0 - 30
2356916	Oxadiazon	5.03	Spike	P	0 - 27
2356916	Oxybenzone	20.0	Spike	P	0 - 30
2356916	Oxyfluorfen	6.13	Spike	P	0 - 24
2356916	Parathion Ethyl	11.4	Spike	P	0 - 28
2356916	Parathion Methyl	25.9	Spike	P	0 - 27
2356916	PBDE-47	21.9	Spike	P	0 - 30
2356916	PBDE-99	21.4	Spike	P	0 - 30
2356916	Pendimethalin	7.83	Spike	P	0 - 31
2356916	Phenytoin	13.9	Spike	P	0 - 30
2356916	Phorate	7.99	Spike	P	0 - 27
2356916	Prodiamine	21.0	Spike	P	0 - 52
2356916	Prometon	4.73	Spike	P	0 - 31
2356916	Prometryn	1.31	Spike	P	0 - 28
2356916	Pronamide	3.72	Spike	P	0 - 26
2356916	Propanil	3.74	Spike	P	0 - 30
2356916	Propargite	26.9	Spike	P	0 - 30
2356916	Propiconazole	5.81	Spike	P	0 - 31
2356916	Pyraflufen Ethyl	4.20	Spike	P	0 - 30
2356916	Pyridaben	29.7	Spike	P	0 - 30
2356916	Pyriproxyfen	0.962	Spike	P	0 - 50
2356916	Simazine	14.0	Spike	P	0 - 29
2356916	Stirophos	47.8	Spike	F	0 - 30
2356916	Sulfentrazone	7.10	Spike	P	0 - 33
2356916	Tebuconazole	40.7	Spike	P	0 - 44
2356916	Terbufos	10.4	Spike	P	0 - 29
2356916	Terbuthylazine	11.8	Spike	P	0 - 27
2356916	Thiobencarb	11.4	Spike	P	0 - 30
2356916	Tri-o-cresyl Phosphate	34.0	Spike	F	0 - 30
2356916	Triadimefon	11.8	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P419543

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2356612	Chlordane	5.69	Spike	P	0 - 25
2356612	Toxaphene	11.4	Spike	P	0 - 26

Reference Method: EPA 8321B
Batch ID: P419612

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P419612

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2356572	Acesulfame K	0.921	Spike	P	0 - 30
2356572	AMPA	8.03	Spike	P	0 - 30
2356572	Endothall	1.60	Spike	P	0 - 30
2356572	Glufosinate	6.78	Spike	P	0 - 30
2356572	Glyphosate	2.29	Spike	P	0 - 30
2356572	Sucralose	1.06	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P419676

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2356891	3-Hydroxycarbofuran	19.2	Spike	P	0 - 30
2356891	Aldicarb	22.7	Spike	P	0 - 30
2356891	Aldicarb Sulfone	6.72	Spike	P	0 - 30
2356891	Aldicarb Sulfoxide	8.91	Spike	P	0 - 30
2356891	Carbaryl	5.68	Spike	P	0 - 30
2356891	Carbofuran	4.00	Spike	P	0 - 30
2356891	Methiocarb	0.0268	Spike	P	0 - 30
2356891	Methomyl	10.7	Spike	P	0 - 30
2356891	Oxamyl	8.04	Spike	P	0 - 30
2356891	Propoxur	7.41	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P419841

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2356890	2,4-D	6.97	Spike	P	0 - 30
2356890	2,4,5-T	3.17	Spike	P	0 - 30
2356890	Acetaminophen	0.0925	Spike	P	0 - 30
2356890	Acetamiprid	0.694	Spike	P	0 - 30
2356890	Afidopyropen	7.44	Spike	P	0 - 30
2356890	Bentazon	1.63	Spike	P	0 - 30
2356890	Benzovindiflupyr	0.440	Spike	P	0 - 30
2356890	Carbamazepine	0.686	Spike	P	0 - 30
2356890	Clothianidin	6.91	Spike	P	0 - 30
2356890	Dinotefuran	0.974	Spike	P	0 - 30
2356890	Diuron	1.96	Spike	P	0 - 30
2356890	Fenuron	2.20	Spike	P	0 - 30
2356890	Fluridone	7.75	Spike	P	0 - 30
2356890	Hydrocodone	0.537	Spike	P	0 - 30
2356890	Ibuprofen	12.9	Spike	P	0 - 30
2356890	Imazapyr	3.93	Spike	P	0 - 30
2356890	Imidacloprid	0.550	Spike	P	0 - 30
2356890	Linuron	6.80	Spike	P	0 - 30
2356890	Mandestrobin	6.27	Spike	P	0 - 30
2356890	MCPP	7.32	Spike	P	0 - 30
2356890	Naproxen	7.02	Spike	P	0 - 30
2356890	Primidone	15.9	Spike	P	0 - 30
2356890	Pyraclostrobin	0.318	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P419841

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2356890	Silvex	4.30	Spike	P	0 - 30
2356890	Thiamethoxam	0.00712	Spike	P	0 - 30
2356890	Tolfenpyrad	4.15	Spike	P	0 - 30
2356890	Triclopyr	17.1	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P419966

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2356392	Total Alkalinity	0.286	Sample	P	0 - 3.8

Reference Method: SM 2320 B-2011
Batch ID: P420275

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357236	Total Alkalinity	1.79	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P420188

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357183	TDS	5.50	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P419968

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2356392	Fluoride	1.47	Spike	P	0 - 1.6

Reference Method: SM 4500-F- C-2011
Batch ID: P420214

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357377	Fluoride	0.519	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P419800

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2356813	Organic Carbon	0.644	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: SM 5310 B-2011
Batch ID: P420035

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357647	Organic Carbon	1.11	Spike	P	0 - 20

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2357067
Field Sample ID: G3TLHR0040

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	55.9	P	30 - 160

Lab Sample ID: 2357068
Field Sample ID: G3TLHR0040

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	92.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	128	P	30 - 160
EPA 8321B	Carbamazepine-d10	74.6	P	30 - 160
EPA 8321B	Diuron-d6	60.6	P	30 - 160
EPA 8321B	Endothall-d6	86.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	70.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	102	P	30 - 160
EPA 8321B	Primidone-d5	102	P	30 - 160
EPA 8321B	Sucralose-d6	109	P	30 - 160

Lab Sample ID: 2357069
Field Sample ID: G3TLHR0043

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	81.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	113	P	30 - 160
EPA 8321B	Carbamazepine-d10	59.8	P	30 - 160
EPA 8321B	Diuron-d6	55.8	P	30 - 160
EPA 8321B	Endothall-d6	74.3	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	78.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	80.2	P	30 - 160
EPA 8321B	Primidone-d5	103	P	30 - 160
EPA 8321B	Sucralose-d6	74.3	P	30 - 160

Lab Sample ID: 2357070
Field Sample ID: G3TLHR0040

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	112	P	29 - 130
EPA 8270E	Decachlorobiphenyl	103	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	67.9	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	72.4	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	75.5	P	30 - 101
EPA 8276	PCNB	98.2	P	48 - 121

Lab Sample ID: 2357071
Field Sample ID: G3TLHR0040

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	49.7	P	20 - 200
EPA 8270E	Simazine-d10	97.0	P	71 - 140
EPA 8270E	Terbufos-d10	90.6	P	62 - 131
EPA 8270E	Terphenyl-d14	76.4	P	52 - 141

Quality Assurance Report
Calibration Verification

Reference Method: DEP SOP: NU-094-1
Run ID: A114787
Included Lab Sample IDs: 2357045, 2357047

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	101	P/P	90 - 110
Color (true)	102	102	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A114790
Included Lab Sample IDs: 2357041, 2357042, 2357045, 2357047, 2357049, 2357051

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

Reference Method: SM 5310 B-2011
Run ID: A114813
Included Lab Sample IDs: 2357046, 2357048, 2357050, 2357052

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.5	95.7	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A114814
Included Lab Sample IDs: 2357070

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	102		P	80 - 120
Alpha-BHC	99.6		P	80 - 120
Alpha-Chlordane	102		P	80 - 120
Beta-BHC	96.0		P	80 - 120
Beta-Cyfluthrin	94.4		P	80 - 120
Bifenthrin	96.5		P	80 - 120
Chlorothalonil	89.7		P	80 - 120
Cis-Nonachlor	98.7		P	80 - 120
Cypermethrin	94.0		P	80 - 120
Dacthal	102		P	80 - 120
DDD-p,p'	102		P	80 - 120
DDE-p,p'	104		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	87.0		P	80 - 120
Deltamethrin	124*		F	80 - 120
Dichlobenil	102		P	80 - 120
Dicofol	95.4		P	80 - 120
Dieldrin	104		P	80 - 120
Endosulfan I	103		P	80 - 120
Endosulfan II	99.8		P	80 - 120
Endosulfan Sulfate	91.6		P	80 - 120
Endrin	102		P	80 - 120
Endrin Aldehyde	95.6		P	80 - 120
Endrin Ketone	103		P	80 - 120
Esfenvalerate	94.2		P	80 - 120
Ethalfluralin	102		P	80 - 120
Fenpropathrin	93.8		P	80 - 120
Gamma-BHC	96.7		P	80 - 120
Gamma-Chlordane	103		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A114814
Included Lab Sample IDs: 2357070

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Heptachlor	101		P	80 - 120
Heptachlor Epoxide	101		P	80 - 120
Hexachlorobenzene	101		P	80 - 120
Kepone	91.5		P	80 - 120
Lambda-Cyhalothrin	93.9		P	80 - 120
Methoprene	102		P	80 - 120
Methoxychlor	90.6		P	80 - 120
MGK-264	96.0		P	80 - 120
Mirex	104		P	80 - 120
Oxychlordane	98.8		P	80 - 120
Permethrin	97.9		P	80 - 120
Phenothrin	97.2		P	80 - 120
Piperonyl Butoxide	91.9		P	80 - 120
Prallethrin	99.2		P	80 - 120
Tau-Fluvalinate	93.2		P	80 - 120
Tetramethrin	94.3		P	80 - 120
Trans-Nonachlor	105		P	80 - 120
Triclosan Methyl	100		P	80 - 120
Trifluralin	99.9		P	80 - 120

Reference Method: EPA 8276
Run ID: A114825
Included Lab Sample IDs: 2357070

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	98.0		P	80 - 120
Toxaphene	93.7		P	80 - 120

Reference Method: EPA 8321B
Run ID: A114835
Included Lab Sample IDs: 2357067

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	106	105	P/P	60 - 150
Aldicarb	115	105	P/P	60 - 150
Aldicarb Sulfone	102	104	P/P	50 - 150
Aldicarb Sulfoxide	105	105	P/P	50 - 150
Carbaryl	120	124	P/P	60 - 150
Carbofuran	115	96.0	P/P	50 - 150
Methiocarb	121	110	P/P	50 - 150
Methomyl	104	109	P/P	50 - 150
Oxamyl	103	108	P/P	50 - 150
Propoxur	110	99.0	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A114842
Included Lab Sample IDs: 2357070

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	98.3		P	80 - 120
PCB-1260	101		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A114851
Included Lab Sample IDs: 2357068, 2357069

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	105	107	P/P	60 - 160
AMPA	107	103	P/P	60 - 160
Endothall	74.9	80.6	P/P	60 - 160
Glufosinate	73.0	75.6	P/P	60 - 160
Glufosinate	75.6	100	P/P	60 - 160
Glyphosate	108	114	P/P	60 - 160
Glyphosate	114	116	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A114853
Included Lab Sample IDs: 2357068, 2357069

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	125	120	P/P	60 - 160
Sucralose	113	107	P/P	60 - 160

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A114854
Included Lab Sample IDs: 2357043, 2357044, 2357050, 2357052

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.7	98.2	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A114857
Included Lab Sample IDs: 2357045, 2357047

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A114861
Included Lab Sample IDs: 2357048

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A114864
Included Lab Sample IDs: 2357043, 2357044, 2357050

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.5	97.0	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: SM 2320 B-2011
Run ID: A114876
Included Lab Sample IDs: 2357041, 2357042, 2357049, 2357051

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	102	98.4	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A114876
Included Lab Sample IDs: 2357041, 2357042, 2357049, 2357051

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

Reference Method: SM 5310 B-2011
Run ID: A114912
Included Lab Sample IDs: 2357043, 2357044

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.0	95.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A114915
Included Lab Sample IDs: 2357046

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.5	103	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A114916
Included Lab Sample IDs: 2357068, 2357069

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	101	101	P/P	50 - 150
2,4-D	101	111	P/P	50 - 150
2,4,5-T	101	114	P/P	50 - 150
2,4,5-T	114	112	P/P	50 - 150
Acetaminophen	114	110	P/P	60 - 160
Acetaminophen	118	114	P/P	60 - 160
Acetamiprid	104	103	P/P	50 - 150
Acetamiprid	107	104	P/P	50 - 150
Afidopyropen	107	112	P/P	50 - 150
Afidopyropen	91.8	107	P/P	50 - 150
Bentazon	108	109	P/P	50 - 160
Bentazon	109	99.2	P/P	50 - 160
Benzovindiflupyr	113	119	P/P	50 - 160
Benzovindiflupyr	96.4	113	P/P	50 - 160
Carbamazepine	109	110	P/P	60 - 150
Carbamazepine	110	107	P/P	60 - 150
Clothianidin	113	104	P/P	60 - 150
Clothianidin	116	113	P/P	60 - 150
Dinotefuran	107	110	P/P	50 - 150
Dinotefuran	110	112	P/P	50 - 150
Diuron	116	113	P/P	60 - 160
Diuron	93.5	116	P/P	60 - 160
Fenuron	102	106	P/P	60 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A114916
Included Lab Sample IDs: 2357068, 2357069

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fenuron	106	106	P/P	60 - 150
Fluridone	106	112	P/P	60 - 160
Fluridone	112	110	P/P	60 - 160
Hydrocodone	109	117	P/P	60 - 150
Hydrocodone	115	109	P/P	60 - 150
Ibuprofen	109	142	P/P	50 - 160
Ibuprofen	115	109	P/P	50 - 160
Imazapyr	98.0	98.5	P/P	50 - 150
Imazapyr	98.5	99.0	P/P	50 - 150
Imidacloprid	103	100	P/P	60 - 150
Imidacloprid	99.7	103	P/P	60 - 150
Linuron	100	109	P/P	60 - 150
Linuron	106	100	P/P	60 - 150
Mandestrobin	106	116	P/P	50 - 150
Mandestrobin	116	111	P/P	50 - 150
MCPP	104	93.6	P/P	50 - 150
MCPP	93.6	101	P/P	50 - 150
Naproxen	105	86.5	P/P	50 - 160
Naproxen	134	105	P/P	50 - 160
Primidone	93.9	106	P/P	60 - 150
Primidone	94.1	93.9	P/P	60 - 150
Pyraclostrobin	107	109	P/P	60 - 150
Pyraclostrobin	110	107	P/P	60 - 150
Silvex	103	104	P/P	50 - 150
Silvex	98.4	103	P/P	50 - 150
Thiamethoxam	108	111	P/P	50 - 150
Thiamethoxam	113	108	P/P	50 - 150
Tolfenpyrad	116	116	P/P	60 - 150
Tolfenpyrad	116	118	P/P	60 - 150
Triclopyr	110	91.5	P/P	50 - 150
Triclopyr	91.5	106	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A114921
Included Lab Sample IDs: 2357052

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	95.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A114923
Included Lab Sample IDs: 2357043, 2357044, 2357050, 2357052

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

Reference Method: EPA 8270E
Run ID: A114926
Included Lab Sample IDs: 2357071

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A114926
Included Lab Sample IDs: 2357071

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	96.8		P	80 - 120
Alachlor	97.8		P	80 - 120
Ametryn	91.4		P	80 - 120
Atrazine	95.1		P	80 - 120
Atrazine Desethyl	91.3		P	80 - 120
Azinphos Methyl	101		P	80 - 120
Azoxystrobin	97.4		P	80 - 120
Bromacil	94.0		P	80 - 120
Butylate	98.4		P	80 - 120
Caffeine	99.3		P	80 - 120
Carbophenothion	96.6		P	80 - 120
Carfentrazone Ethyl	96.9		P	80 - 120
Chlorfenapyr	92.1		P	80 - 120
Chlorpyrifos Ethyl	94.6		P	80 - 120
Chlorpyrifos Methyl	94.5		P	80 - 120
Coumaphos	89.4		P	80 - 120
Cyanazine	91.8		P	80 - 120
Cyprodinil	96.6		P	80 - 120
Demeton	96.8		P	80 - 120
Diazinon	97.5		P	80 - 120
Difenoconazole	93.3		P	80 - 120
Dimethenamid	95.9		P	80 - 120
Dimethomorph	98.5		P	80 - 120
Disulfoton	92.6		P	80 - 120
Dithiopyr	92.1		P	80 - 120
EPTC	99.3		P	80 - 120
Ethion	99.2		P	80 - 120
Ethoprop	96.7		P	80 - 120
Etridiazole	96.2		P	80 - 120
Fenamiphos	97.3		P	80 - 120
Fenbuconazole	92.1		P	80 - 120
Fipronil	97.4		P	80 - 120
Fipronil Desulfinyl	95.5		P	80 - 120
Fipronil Sulfide	98.4		P	80 - 120
Fipronil Sulfone	93.9		P	80 - 120
Fluazifop-P-butyl	97.2		P	80 - 120
Fludioxonil	98.0		P	80 - 120
Flumioxazin	92.0		P	80 - 120
Flutolanil	97.2		P	80 - 120
Fluxapyroxad	93.4		P	80 - 120
Fonofos	97.5		P	80 - 120
Hexazinone	97.6		P	80 - 120
Imazalil	95.4		P	80 - 120
Iprodione	94.4		P	80 - 120
Loratadine	97.2		P	80 - 120
Malathion	94.3		P	80 - 120
Metalaxyl	95.7		P	80 - 120
Metolachlor	99.0		P	80 - 120
Metribuzin	98.9		P	80 - 120
Mevinphos	90.0		P	80 - 120
Molinate	99.4		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A114926
Included Lab Sample IDs: 2357071

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Myclobutanil	97.3		P	80 - 120
Naled	95.6		P	80 - 120
Napropamide	98.1		P	80 - 120
Norflurazon	91.1		P	80 - 120
Oxadiazon	96.7		P	80 - 120
Oxyfluorfen	99.2		P	80 - 120
Parathion Ethyl	99.0		P	80 - 120
Parathion Methyl	102		P	80 - 120
Pendimethalin	104		P	80 - 120
Phenytoin	93.8		P	80 - 120
Phorate	97.7		P	80 - 120
Prodiamine	97.2		P	80 - 120
Prometon	102		P	80 - 120
Prometryn	97.9		P	80 - 120
Pronamide	101		P	80 - 120
Propanil	102		P	80 - 120
Propargite	96.2		P	80 - 120
Propiconazole	93.6		P	80 - 120
Pyraflufen Ethyl	93.3		P	80 - 120
Pyridaben	96.0		P	80 - 120
Pyriproxyfen	97.9		P	80 - 120
Simazine	97.1		P	80 - 120
Stirophos	94.2		P	80 - 120
Sulfentrazone	86.6		P	80 - 120
Tebuconazole	96.2		P	80 - 120
Terbufos	98.8		P	80 - 120
Terbuthylazine	101		P	80 - 120
Thiobencarb	102		P	80 - 120
Triadimefon	95.4		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A114942
Included Lab Sample IDs: 2357046, 2357048

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.6	98.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A114950
Included Lab Sample IDs: 2357043, 2357044, 2357050, 2357052

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	109	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A114960
Included Lab Sample IDs: 2357046, 2357048

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	95.5	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: SM 4500-F- C-2011
Run ID: A114980
Included Lab Sample IDs: 2357045, 2357047

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

Reference Method: SM 2320 B-2011
Run ID: A115007
Included Lab Sample IDs: 2357045, 2357047

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.7	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A115027
Included Lab Sample IDs: 2357046, 2357048

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

Reference Method: EPA 8270E
Run ID: A115064
Included Lab Sample IDs: 2357071

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	100		P	80 - 120
Avobenzone	98.0		P	80 - 120
Dechlorane Plus	101		P	80 - 120
Octinoxate	97.4		P	80 - 120
Oxybenzone	96.6		P	80 - 120
PBDE-47	97.0		P	80 - 120
PBDE-99	101		P	80 - 120
Tri-o-cresyl Phosphate	98.1		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)	100				0.379	
EPA 180.1 Rev. 2.0	Turbidity	100				3.42	
EPA 300.0 Rev. 2.1	Chloride	102	99.1	99.0		0.124	
	Chloride	103	101	101		0.287	
	Sulfate	99.5	97.4	99.2		0.116	
	Sulfate	103	98.8	99.0		0.287	
EPA 350.1 Rev. 2.0	Ammonia-N	95.2	97.6	98.6			0.576
	Ammonia-N	95.2	102	103			0.888
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	97.9	101	105			3.65
	Kjeldahl Nitrogen	106	97.5	101			3.15
	Kjeldahl Nitrogen	104	103	99.6			2.09
EPA 353.2 Rev. 2.0	NO2NO3-N	99.5	98.5	99.0			0.456
	NO2NO3-N	97.0	94.6	95.2			0.487
EPA 365.1 Rev. 2.0	Total-P	106	103	106			2.26
	Total-P	106	108	104			2.93
	Total-P	107	96.3	95.7			0.529
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	80.3	43.8	58.5			28.6
	Acetochlor	97.5	90.5	99.8			9.70
	Alachlor	93.5	81.8	91.4			11.1
	Aldrin	57.0	50.5	56.8			11.6
	Alpha-BHC	93.4	95.7	93.9			1.90
	Alpha-Chlordane	76.0	64.4	74.3			14.3
	Ametryn	83.3	67.8	76.4			6.32
	Atrazine	98.2	89.2	103			11.2
	Atrazine Desethyl	59.7	56.3	69.1			20.3
	Avobenzone	76.0	61.9	77.1			21.8
	Azinphos Methyl	138	105	115			9.67
	Azoxystrobin	136	98.5	139			28.5
	Beta-BHC	109	117	152			25.9
	Beta-Cyfluthrin	88.3	72.1	91.1			23.3
	Bifenthrin	69.3	56.9	72.3			23.8
	Bromacil	68.4	79.1	94.0			9.57
	Butylate	58.5	34.7	41.0			16.8
	Caffeine	78.0	84.1	76.5			9.14
	Carbophenothion	90.3	76.6	76.2			0.494
	Carfentrazone Ethyl	95.2	81.4	76.9			5.59
	Chlorfenapyr	81.1	64.0	64.6			0.890
	Chlorothalonil	79.3	74.4	72.7			2.23
	Chlorpyrifos Ethyl	91.4	71.7	67.7			5.83
	Chlorpyrifos Methyl	98.4	72.2	81.0			11.4
	Cis-Nonachlor	72.6	58.2	66.5			13.3
	Coumaphos	82.3	39.0	32.8			17.5
	Cyanazine	87.6	74.2	77.1			3.82
	Cypermethrin	91.1	73.7	88.0			17.7
	Cyprodinil	92.5	73.1	69.9			4.42
	Dacthal	87.8	86.8	93.4			7.29
	DDD-p,p'	72.5	63.3	71.8			12.6
	DDE-p,p'	72.7	64.2	77.0			18.1
	DDT-p,p'	74.3	64.8	71.6			9.99
	Dechlorane Plus	95.1	54.4	65.7			18.7
	Delta-BHC	116	128	163			24.0
	Deltamethrin	85.1	74.7	84.8			12.6

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Demeton	92.2	89.4	106			17.2
	Diazinon	98.1	90.4	102			12.3
	Dichlobenil	83.8	70.3	72.0			2.32
	Dicofol	73.1	65.6	74.2			12.3
	Dieldrin	78.6	67.0	79.6			17.2
	Difenoconazole	88.1	100	87.6			13.5
	Dimethenamid	67.6	71.2	69.5			2.37
	Dimethomorph	182	109	189			54.0
	Disulfoton	98.2	77.7	84.3			8.07
	Dithiopyr	86.1	62.2	70.6			11.5
	Endosulfan I	82.1	70.8	83.0			15.8
	Endosulfan II	89.7	86.8	99.7			13.8
	Endosulfan Sulfate	87.3	76.6	90.8			17.0
	Endrin	75.8	67.5	80.2			17.3
	Endrin Aldehyde	75.5	65.1	64.8			0.413
	Endrin Ketone	79.9	60.5	51.5			16.2
	EPTC	52.8	33.1	41.1			21.6
	Esfenvalerate	94.3	72.5	95.4			27.3
	Ethalfluralin	86.1	72.1	80.1			10.6
	Ethion	36.1	76.7	36.3			71.5
	Ethoprop	90.5	80.9	87.5			7.85
	Etridiazole	58.0	50.6	61.6			19.5
	Fenamiphos	96.6	79.7	78.4			1.63
	Fenbuconazole	86.6	78.8	83.8			6.19
	Fenpropathrin	81.5	67.1	82.5			20.7
	Fipronil	89.1	86.7	87.9			1.43
	Fipronil Desulfinyl	85.6	74.8	75.7			1.27
	Fipronil Sulfide	67.9	65.9	72.1			9.09
	Fipronil Sulfone	80.1	74.5	75.5			1.34
	Fluazifop-P-butyl	86.3	78.4	75.6			3.54
	Fludioxonil	82.8	76.4	73.9			3.23
	Flumioxazin	106	120	117			3.28
	Flutolanil	82.4	73.9	69.0			6.72
	Fluxapyroxad	60.7	68.9	62.3			10.1
	Fonofos	84.1	71.0	74.0			4.12
	Gamma-BHC	108	119	111			7.31
	Gamma-Chlordane	75.7	65.9	81.0			20.6
	Heptachlor	69.6	61.4	69.3			12.0
	Heptachlor Epoxide	81.6	72.1	82.2			13.1
	Hexachlorobenzene	75.6	67.5	74.5			9.98
	Hexazinone	87.4	97.2	103			6.19
	Imazalil	89.9	100	90.4			10.4
	Iprodione	90.5	81.9	80.6			1.62
	Kepone	133	100	126			22.8
	Lambda-Cyhalothrin	78.2	76.8	94.6			20.8
	Loratadine	180	103	176			52.5
	Malathion	104	84.0	88.5			5.23
	Metalaxyl	87.2	75.1	75.9			0.904
	Methoprene	69.5	55.7	72.0			25.5
	Methoxychlor	87.5	77.8	86.4			10.5
	Metolachlor	93.3	80.8	84.8			4.83
	Metribuzin	107	86.8	105			18.7
	Mevinphos	70.8	63.2	72.3			13.5
	MGK-264	77.9	77.9	84.0			7.53

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Mirex	65.6	55.0	69.1			22.8
	Molinate	75.7	64.6	60.4			6.61
	Myclobutanil	81.4	82.3	74.3			10.2
	Naled	77.9	92.6	91.4			1.29
	Napropamide	65.8	67.9	54.1			22.7
	Norflurazon	74.3	91.7	94.1			1.50
	Octinoxate	88.9	63.7	92.0			36.4
	Oxadiazon	72.9	73.3	69.7			5.03
	Oxybenzone	83.1	61.7	75.4			20.0
	Oxychlordane	80.1	69.7	82.6			17.0
	Oxyfluorfen	113	111	104			6.13
	Parathion Ethyl	99.6	84.6	94.8			11.4
	Parathion Methyl	115	93.0	121			25.9
	PBDE-47	67.3	56.4	70.3			21.9
	PBDE-99	76.0	44.4	55.1			21.4
	PCB-1016	91.5	78.7	88.3			11.4
	PCB-1260	85.9	74.8	77.8			3.97
	Pendimethalin	83.7	75.4	81.6			7.83
	Permethrin	90.2	74.4	87.7			16.5
	Phenothrin	64.5	55.1	72.1			26.8
	Phenytoin	11.3	28.7	25.0			13.9
	Phorate	77.3	76.1	70.2			7.99
	Piperonyl Butoxide	95.0	87.6	98.6			11.8
	Prallethrin	70.6	63.9	73.9			14.5
	Prodiamine	59.2	56.0	69.2			21.0
	Prometon	68.0	77.4	81.1			4.73
	Prometryn	84.5	67.8	68.7			1.31
	Pronamide	101	95.1	98.7			3.72
	Propanil	86.3	83.2	86.4			3.74
	Propargite	41.1	59.2	45.2			26.9
	Propiconazole	75.7	60.5	64.1			5.81
	Pyraflufen Ethyl	75.2	58.2	60.6			4.20
	Pyridaben	96.0	55.2	40.9			29.7
	Pyriproxyfen	77.5	67.6	68.3			0.962
	Simazine	89.2	82.6	95.1			14.0
	Stirophos	43.1	51.1	31.4			47.8
	Sulfentrazone	36.8	77.2	82.9			7.10
	Tau-Fluvalinate	78.1	61.1	83.4			30.9
	Tebuconazole	31.7	45.8	30.3			40.7
	Terbufos	109	91.2	101			10.4
	Terbuthylazine	94.4	88.0	99.1			11.8
	Tetramethrin	104	102	127			21.5
	Thiobencarb	91.7	76.3	85.5			11.4
	Trans-Nonachlor	76.6	60.6	79.3			26.7
	Tri-o-cresyl Phosphate	82.3	60.2	84.9			34.0
	Triadimefon	78.5	73.4	65.2			11.8
	Triclosan Methyl	74.7	68.1	79.5			15.4
	Trifluralin	78.8	68.6	79.9			15.2
EPA 8276	Chlordane	82.2	78.5	84.0			5.69
	Toxaphene	83.4	71.3	79.9			11.4
EPA 8321B	2,4-D	71.6	97.8	107			6.97
	2,4,5-T	65.9	86.4	83.7			3.17
	3-Hydroxycarbofuran	84.7	96.6	117			19.2
	Acesulfame K	115	110	109			0.921

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Acetaminophen	99.5	119	119			0.0925
	Acetamiprid	86.2	60.8	60.4			0.694
	Afidopyropen	71.1	89.0	82.7			7.44
	Aldicarb	73.5	60.5	76.1			22.7
	Aldicarb Sulfone	89.0	108	116			6.72
	Aldicarb Sulfoxide	91.8	65.5	71.6			8.91
	AMPA	105	103	94.6			8.03
	Bentazon	90.7					1.63
	Benzovindiflupyr	84.4	79.8	79.4			0.440
	Carbamazepine	87.7	69.7	70.2			0.686
	Carbaryl	68.5	66.5	70.4			5.68
	Carbofuran	78.1	72.8	70.0			4.00
	Clothianidin	98.6	111	119			6.91
	Dinotefuran	105	114	116			0.974
	Diuron	58.8	51.9	50.9			1.96
	Endothall	98.0	99.4	97.9			1.60
	Fenuron	107	96.6	94.4			2.20
	Fluridone	92.4	96.5	88.1			7.75
	Glufosinate	97.9	85.8	91.8			6.78
	Glyphosate	113	117	115			2.29
	Hydrocodone	96.5	100	101			0.537
	Ibuprofen	84.4	81.4	92.6			12.9
	Imazapyr	91.7					3.93
	Imidacloprid	93.3					0.550
	Linuron	91.9	78.6	73.5			6.80
	Mandestrobin	95.2	91.4	97.4			6.27
	MCPP	78.9	89.3	96.1			7.32
	Methiocarb	76.7	82.2	82.1			0.0268
	Methomyl	89.7	92.1	103			10.7
	Naproxen	81.2	102	95.2			7.02
	Oxamyl	90.9	97.1	105			8.04
	Primidone	95.1	103	120			15.9
	Propoxur	75.3	64.8	69.8			7.41
	Pyraclostrobin	82.2	91.0	91.2			0.318
	Silvex	61.4	85.6	89.3			4.30
	Sucralose	110	105	103			1.06
	Thiamethoxam	92.7	140	141			0.0071
	Tolfenpyrad	64.9	64.7	67.5			4.15
	Triclopyr	64.4	79.8	94.7			17.1
SM 2320 B-2011	Total Alkalinity	103				0.286	
	Total Alkalinity	98.5				1.79	
SM 2540 C-2011	TDS					5.50	
SM 4500-F- C-2011	Fluoride	100	95.7	97.9			1.47
	Fluoride	99.9	105	106			0.519
SM 5310 B-2011	Organic Carbon	95.4	96.0	95.3			0.644
	Organic Carbon	96.4	95.5	94.0			1.11

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2357045, 2357047
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2357041, 2357042, 2357045, 2357047, 2357049, 2357051

Reference Method Descriptions

Method	Description	Associated Samples
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2357045, 2357047
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2357045, 2357047
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2357043, 2357044, 2357046, 2357048, 2357050, 2357052
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2357043, 2357044, 2357046, 2357048, 2357050, 2357052
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2357043, 2357044, 2357046, 2357048, 2357050, 2357052
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2357043, 2357044, 2357046, 2357048, 2357050, 2357052
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2357071
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2357070
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2357071
EPA 8270E	PCBs in water matrices by GC/MS/MS	2357070
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2357070
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2357067
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2357068, 2357069
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2357041, 2357042, 2357045, 2357047, 2357049, 2357051
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2357045, 2357047
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2357041, 2357042, 2357045, 2357047, 2357049, 2357051
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2357041, 2357042, 2357045, 2357047, 2357049, 2357051
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2357043, 2357044, 2357046, 2357048, 2357050, 2357052

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	09/15/2022			09/16/2022 14:23	Samantha L Bates	2357047
	09/15/2022			09/16/2022 14:41	Samantha L Bates	2357045
EPA 180.1 Rev. 2.0	09/15/2022			09/16/2022 14:21	Chandler E Cox	2357047
	09/15/2022			09/16/2022 14:23	Chandler E Cox	2357041
	09/15/2022			09/16/2022 14:24	Chandler E Cox	2357042
	09/15/2022			09/16/2022 14:25	Chandler E Cox	2357045
	09/15/2022			09/16/2022 14:26	Chandler E Cox	2357049
	09/15/2022			09/16/2022 14:27	Chandler E Cox	2357051
EPA 300.0 Rev. 2.1	09/15/2022			09/23/2022 01:04	Anna M. Plaviak	2357045
	09/15/2022			09/23/2022 03:50	Anna M. Plaviak	2357047
EPA 350.1 Rev. 2.0	09/15/2022			09/21/2022 12:50	Ping Hua	2357043
	09/15/2022			09/21/2022 12:51	Ping Hua	2357044
	09/15/2022			09/21/2022 12:52	Ping Hua	2357050
	09/15/2022			09/21/2022 12:54	Ping Hua	2357052
	09/15/2022			09/26/2022 13:20	Judith K. Clark	2357046
	09/15/2022			09/26/2022 13:24	Judith K. Clark	2357048
EPA 351.2 Rev. 2.0	09/15/2022	09/22/2022 09:22	Alexandra J Mattheus	09/26/2022 14:11	Samantha L Bates	2357043
	09/15/2022	09/22/2022 09:22	Alexandra J Mattheus	09/26/2022 14:12	Samantha L Bates	2357044
	09/15/2022	09/22/2022 09:22	Alexandra J Mattheus	09/26/2022 14:14	Samantha L Bates	2357050
	09/15/2022	09/22/2022 09:22	Alexandra J Mattheus	09/26/2022 14:15	Samantha L Bates	2357052
	09/15/2022	09/22/2022 09:22	Alexandra J Mattheus	09/29/2022 11:13	Samantha L Bates	2357048
	09/15/2022	09/22/2022 09:22	Alexandra J Mattheus	09/29/2022 11:39	Samantha L Bates	2357046
EPA 353.2 Rev. 2.0	09/15/2022			09/23/2022 17:20	Judith K. Clark	2357043
	09/15/2022			09/23/2022 17:21	Judith K. Clark	2357044
	09/15/2022			09/23/2022 17:22	Judith K. Clark	2357050
	09/15/2022			09/23/2022 17:23	Judith K. Clark	2357052
	09/15/2022			09/27/2022 11:19	Beverly Y. Sanders	2357046
	09/15/2022			09/27/2022 11:20	Beverly Y. Sanders	2357048
EPA 365.1 Rev. 2.0	09/15/2022	09/21/2022 08:40	Adam P Silver	09/21/2022 14:51	Simonne.V. Calhoun	2357048
	09/15/2022	09/21/2022 08:40	Adam P Silver	09/21/2022 16:36	Simonne.V. Calhoun	2357043
	09/15/2022	09/21/2022 08:40	Adam P Silver	09/21/2022 16:37	Simonne.V. Calhoun	2357044
	09/15/2022	09/21/2022 08:40	Adam P Silver	09/21/2022 16:38	Simonne.V. Calhoun	2357050
	09/15/2022	09/21/2022 08:40	Adam P Silver	09/23/2022 12:55	James L Waggerby	2357046
	09/15/2022	09/22/2022 14:19	Adam P Silver	09/23/2022 14:20	James L Waggerby	2357052
EPA 8270E	09/15/2022	09/16/2022 08:00	Fe-Val Siddell	09/19/2022 23:09	Vandana T. Nagar	2357070
	09/15/2022	09/16/2022 08:00	Fe-Val Siddell	09/21/2022 03:19	Julie Wi	2357070
	09/15/2022	09/19/2022 08:00	Fe-Val Siddell	09/22/2022 19:31	Michael Poppell	2357071
	09/15/2022	09/19/2022 08:00	Fe-Val Siddell	09/29/2022 20:55	Lipi Saha	2357071
EPA 8276	09/15/2022	09/16/2022 08:00	Fe-Val Siddell	09/20/2022 13:23	Arthur Maknenko	2357070
EPA 8321B	09/15/2022	09/16/2022 13:00	Umesh Chiluwal	09/17/2022 02:49	Umesh Chiluwal	2357068

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	09/15/2022	09/16/2022 13:00	Umesh Chiluwal	09/17/2022 03:02	Umesh Chiluwal	2357069
	09/15/2022	09/16/2022 13:00	Umesh Chiluwal	09/17/2022 06:04	Umesh Chiluwal	2357069
	09/15/2022	09/16/2022 13:00	Umesh Chiluwal	09/19/2022 14:53	Umesh Chiluwal	2357068
	09/15/2022	09/16/2022 13:00	Umesh Chiluwal	09/19/2022 15:08	Umesh Chiluwal	2357069
	09/15/2022	09/20/2022 09:30	June Rhew	09/20/2022 17:42	Juyoung Kim	2357067
	09/15/2022	09/21/2022 08:45	June Rhew	09/22/2022 17:06	Juyoung Kim	2357068
	09/15/2022	09/21/2022 08:45	June Rhew	09/22/2022 17:47	Juyoung Kim	2357069
SM 2320 B-2011	09/15/2022			09/22/2022 01:42	Dale L. Simmons	2357049
	09/15/2022			09/22/2022 01:54	Dale L. Simmons	2357051
	09/15/2022			09/22/2022 03:18	Dale L. Simmons	2357041
	09/15/2022			09/22/2022 03:30	Dale L. Simmons	2357042
	09/15/2022			09/28/2022 19:11	Adam P Silver	2357045
	09/15/2022			09/28/2022 19:21	Adam P Silver	2357047
SM 2540 C-2011	09/15/2022			09/20/2022 15:08	Yijie Li	2357045, 2357047
SM 2540 D-2011	09/15/2022			09/20/2022 15:08	Yijie Li	2357041, 2357042, 2357045, 2357047, 2357049, 2357051
SM 4500-F- C-2011	09/15/2022			09/21/2022 23:34	Dale L. Simmons	2357049
	09/15/2022			09/21/2022 23:39	Dale L. Simmons	2357051
	09/15/2022			09/22/2022 00:15	Dale L. Simmons	2357041
	09/15/2022			09/22/2022 00:20	Dale L. Simmons	2357042
	09/15/2022			09/27/2022 22:50	Adam P Silver	2357045
	09/15/2022			09/27/2022 23:03	Adam P Silver	2357047
SM 5310 B-2011	09/15/2022			09/19/2022 20:48	Khloe J Berg	2357046
	09/15/2022			09/19/2022 21:05	Khloe J Berg	2357048
	09/15/2022			09/19/2022 21:19	Khloe J Berg	2357050
	09/15/2022			09/19/2022 21:34	Khloe J Berg	2357052
	09/15/2022			09/23/2022 05:49	Khloe J Berg	2357043
	09/15/2022			09/23/2022 06:33	Khloe J Berg	2357044