Chemical Analysis Report

SE-DIST-2020-07-16-01

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

Event Description: **SMP- 3209 3161 3152B 3163 3147 3160**
Request ID: **RQ-2020-07-13-45**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
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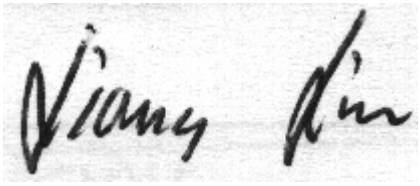
Certified by: Liang Lin, Environmental Administrator

Date Certified: 07-AUG-2020 15:07



Case Narrative

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

Results for the following analytical groups are included in this report: Metals, Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: C-25 West of S99 **Collection Date/Time: 07/15/2020 10:00**

Field ID: G2SE0057 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2183345	EPA 180.1 Rev. 2.0	Turbidity	4.4		NTU	P385091	
	EPA 300.0 Rev. 2.1	Chloride	240		mg Cl/L	P385199	
		Sulfate	88		mg SO4/L	P385203	
	SM 2120 B-2011	Color (true)	93	A	PCU	P384751	
	SM 2320 B-2011	Total Alkalinity	181		mg CaCO3/L	P384850	
	SM 2540 C-2011	TDS	764		mg/L	P385024	
	SM 2540 D-2011	TSS	4	I	mg/L	P384909	
	SM 4500 F-C-2011	Fluoride	0.36		mg F/L	P385004	
2183347	EPA 350.1 Rev. 2.0	Ammonia-N	0.041		mg N/L	P384823	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.5		mg N/L	P384983	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.020		mg N/L	P384914	
	EPA 365.1 Rev. 2.0	Total-P	0.16		mg P/L	P384879	
	SM 5310 B-2011	Organic Carbon	19		mg C/L	P384843	
2183349	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.090		mg P/L	P384789	
2183363	EPA 8321B	Aldicarb	0.020	U	ug/L	P384706	
		Aldicarb Sulfone	0.0020	U	ug/L	P384706	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P384706	
		Carbaryl	0.0020	U	ug/L	P384706	
		Carbofuran	0.0020	U	ug/L	P384706	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P384706	
		Methiocarb	0.0020	U	ug/L	P384706	
		Methomyl	0.0020	U	ug/L	P384706	
		Oxamyl	0.0020	U	ug/L	P384706	
		Propoxur	0.0020	U	ug/L	P384706	
2183365		2,4-D	0.12		ug/L	P384835	
		Acesulfame K**	0.10	U	ug/L	P384836	
		AMPA**	1.5		ug/L	P384836	
		Sucralose**	0.019	I	ug/L	P384836	
		Acetaminophen**	0.0080	U	ug/L	P384835	
		Acetamiprid**	0.0040	I	ug/L	P384835	
		Endothall**	0.25	U	ug/L	P384836	
		Glufosinate**	0.10	U	ug/L	P384836	
		Glyphosate**	2.7		ug/L	P384836	
		Afidopyropen**	0.0020	U	ug/L	P384835	
		Bentazon	9.9E-04	I	ug/L	P384835	
		Benzovindiflupyr**	0.0020	U	ug/L	P384835	
		Carbamazepine**	8.0E-04	U	ug/L	P384835	
		Clothianidin**	0.027		ug/L	P384835	
		Dinotefuran**	0.0020	U	ug/L	P384835	
		Diuron	0.013		ug/L	P384835	
		Fenuron	0.016	U	ug/L	P384835	
		Fluridone**	0.0041		ug/L	P384835	
		Imazapyr**	0.030		ug/L	P384835	

Field ID: G2SE0057 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2183365	EPA 8321B	Hydrocodone**	0.0020	U	ug/L	P384835	
		Ibuprofen**	0.020	U	ug/L	P384835	
		Imidacloprid	0.41		ug/L	P384835	
		Linuron	0.0040	U	ug/L	P384835	
		Mandestrobin**	0.0020	U	ug/L	P384835	
		MCPP	0.0020	U	ug/L	P384835	
		Naproxen**	0.0080	U	ug/L	P384835	
		Primidone**	0.0040	U	ug/L	P384835	
		Pyraclostrobin**	0.0020	U	ug/L	P384835	
		Thiamethoxam**	0.041		ug/L	P384835	
		Tolfenpyrad**	0.0020	U	ug/L	P384835	
		Triclopyr**	0.0040	U	ug/L	P384835	
2183367	EPA 8270E	Aldrin	4.2	U	ng/L	P384679	
		Alpha-BHC	2.1	U	ng/L	P384679	
		Alpha-Chlordane	1.1	U	ng/L	P384679	
		Beta-BHC	8.4	U	ng/L	P384679	
		Beta-Cyfluthrin**	16	U	ng/L	P384679	
		Bifenthrin**	4.2	U	ng/L	P384679	
		Delta-BHC	8.4	U	ng/L	P384679	
		Gamma-BHC	8.4	U	ng/L	P384679	
		Chlorothalonil	2.1	U	ng/L	P384679	
		Cis-Nonachlor**	1.1	U	ng/L	P384679	
		Cypermethrin	21	U	ng/L	P384679	
		Dacthal**	1.1	U	ng/L	P384679	
		DDD-p,p'	5.3	U	ng/L	P384679	
		DDE-p,p'	5.3	U	ng/L	P384679	
		DDT-p,p'	6.3	U	ng/L	P384679	
		Dicofol	32	U	ng/L	P384679	
		Dieldrin	4.2	U	ng/L	P384679	
		Endosulfan I	4.2	U	ng/L	P384679	
		Endosulfan II	4.2	U	ng/L	P384679	
		Endosulfan Sulfate	2.1	U	ng/L	P384679	
		Endrin	2.1	U	ng/L	P384679	
		Endrin Aldehyde	2.1	U	ng/L	P384679	
		Endrin Ketone	2.1	UJ	ng/L	P384679	LCS, RPD
		Ethalfluralin**	3.2	U	ng/L	P384679	
		Gamma-Chlordane	1.1	U	ng/L	P384679	
		Heptachlor	1.6	U	ng/L	P384679	
		Heptachlor Epoxide	2.1	U	ng/L	P384679	
		Hexachlorobenzene	2.1	U	ng/L	P384679	
		Lambda-Cyhalothrin**	16	U	ng/L	P384679	
		Methoxychlor	4.2	U	ng/L	P384679	
		Mirex	2.1	U	ng/L	P384679	
		Permethrin	11	U	ng/L	P384679	
		Phenothrin**	32	U	ng/L	P384679	

Field ID: G2SE0057 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2183367	EPA 8270E	Prallethrin**	26	U	ng/L	P384679	
		Trans-Nonachlor**	1.1	U	ng/L	P384679	
		Trifluralin	2.6	U	ng/L	P384679	
	EPA 8276	Chlordane	6.4	I	ng/L	P384679	
		Toxaphene	32	UJ	ng/L	P384679	CCV
2183369	EPA 8270E	Acetochlor	0.24	U	ng/L	P384651	
		Alachlor	0.24	U	ng/L	P384651	
		Ametryn	0.59	U	ng/L	P384651	
		Atrazine	9.7		ng/L	P384651	
		Atrazine Desethyl	1.5	U	ng/L	P384651	
		Azinphos Methyl	2.0	U	ng/L	P384651	
		Bromacil	4.4		ng/L	P384651	
		Butylate	0.39	U	ng/L	P384651	
		Carbophenothion	0.49	U	ng/L	P384651	
		Chlorpyrifos Ethyl	5.2		ng/L	P384651	
		Chlorpyrifos Methyl	0.049	U	ng/L	P384651	
		Cyanazine	3.2	U	ng/L	P384651	
		Demeton	1.5	U	ng/L	P384651	
		Diazinon	0.12	U	ng/L	P384651	
		Dimethenamid**	0.13	I	ng/L	P384651	
		Disulfoton	0.49	U	ng/L	P384651	
		Dithiopyr**	0.098	U	ng/L	P384651	
		EPTC	1.2	U	ng/L	P384651	
		Ethion	0.15	U	ng/L	P384651	
		Ethoprop	0.098	U	ng/L	P384651	
		Fenamiphos	0.49	U	ng/L	P384651	RPD
		Fipronil	0.24	U	ng/L	P384651	
		Fipronil Desulfinyl**	0.12	U	ng/L	P384651	
		Fipronil Sulfide	0.15	U	ng/L	P384651	
		Fipronil Sulfone	0.15	U	ng/L	P384651	
		Flumioxazin**	3.2	I	ng/L	P384651	
		Fonofos	0.20	U	ng/L	P384651	
		Hexazinone	9.9		ng/L	P384651	
		Imazalil**	0.73	U	ng/L	P384651	
		Malathion	0.34	U	ng/L	P384651	
		Metalaxyl	29		ng/L	P384651	
		Metolachlor	11		ng/L	P384651	
		Metribuzin	3.2	U	ng/L	P384651	
		Mevinphos	0.49	U	ng/L	P384651	
		Molinate	0.29	U	ng/L	P384651	
		Naled**	1.5	U	ng/L	P384651	
		Norflurazon	190		ng/L	P384651	
		Oxadiazon	0.38	I	ng/L	P384651	
		Parathion Ethyl	0.24	U	ng/L	P384651	
		Parathion Methyl	0.54	U	ng/L	P384651	

Field ID: G2SE0057 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2183369	EPA 8270E	Pendimethalin	0.98	U	ng/L	P384651	
		Phorate	0.24	U	ng/L	P384651	
		Prodiamine**	0.17	U	ng/L	P384651	
		Prometon	0.88	U	ng/L	P384651	
		Prometryn	0.20	U	ng/L	P384651	
		Pronamide**	0.15	U	ng/L	P384651	
		Propiconazole**	0.49	U	ng/L	P384651	
		Simazine	140		ng/L	P384651	
		Sulfentrazone**	0.71	I	ng/L	P384651	
		Tebuconazole**	0.49	U	ng/L	P384651	
		Terbufos	0.098	U	ng/L	P384651	
		Terbuthylazine	0.42	U	ng/L	P384651	
2183371	EPA 200.7 Rev. 4.4	Barium	45.7		ug/L	P384874	
		Calcium	109		mg/L	P384874	
		Iron	160		ug/L	P384874	
		Magnesium	21.8		mg/L	P384874	
		Potassium	11.0		mg/L	P384874	
		Sodium	121		mg/L	P384874	
		Zinc	5.0	U	ug/L	P384874	
	EPA 200.8 Rev. 5.4	Aluminum	27		ug/L	P384874	
		Antimony	0.11	I	ug/L	P384874	
		Arsenic	1.49		ug/L	P384874	
		Boron**	75.7		ug/L	P384874	
		Cadmium	0.020	U	ug/L	P384874	
		Chromium	0.40	U	ug/L	P384874	
		Copper	1.98		ug/L	P384874	
		Lead	0.20	U	ug/L	P384874	
		Nickel	0.88	I	ug/L	P384874	
		Selenium	0.24	I	ug/L	P384874	
		Silver	0.010	U	ug/L	P384874	
		Thallium	0.10	U	ug/L	P384874	
	SM 2340B	Hardness	362		mg/L	P384874	

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 high concentration of parameter in the spiked sample.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8276: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked.

Sample Location: North Canal @ US1 **Collection Date/Time: 07/15/2020 11:20**

Field ID: G5SE0043 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2183346	EPA 180.1 Rev. 2.0	Turbidity	5.4		NTU	P385091	
	EPA 300.0 Rev. 2.1	Chloride	160		mg Cl/L	P385199	
		Sulfate	47		mg SO4/L	P385203	
	SM 2120 B-2011	Color (true)	130		PCU	P384752	
	SM 2320 B-2011	Total Alkalinity	138		mg CaCO3/L	P384850	
	SM 2540 C-2011	TDS	527		mg/L	P385024	
	SM 2540 D-2011	TSS	4	I	mg/L	P384909	
	SM 4500 F-C-2011	Fluoride	0.28		mg F/L	P384855	
2183348	EPA 350.1 Rev. 2.0	Ammonia-N	0.11		mg N/L	P384823	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P384983	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.20		mg N/L	P384914	
	EPA 365.1 Rev. 2.0	Total-P	0.24		mg P/L	P384879	
	SM 5310 B-2011	Organic Carbon	19		mg C/L	P384843	
2183350	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.15		mg P/L	P384789	
2183364	EPA 8321B	Aldicarb	0.020	U	ug/L	P384706	
		Aldicarb Sulfone	0.0020	U	ug/L	P384706	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P384706	
		Carbaryl	0.0020	U	ug/L	P384706	
		Carbofuran	0.0020	U	ug/L	P384706	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P384706	
		Methiocarb	0.0020	U	ug/L	P384706	
		Methomyl	0.0020	U	ug/L	P384706	
		Oxamyl	0.0020	U	ug/L	P384706	
		Propoxur	0.0020	U	ug/L	P384706	
2183366		2,4-D	4.0		ug/L	P384835	
		Acesulfame K**	0.10	U	ug/L	P384836	
		AMPA**	1.4		ug/L	P384836	
		Sucralose**	1.5		ug/L	P384836	
		Acetaminophen**	0.0080	U	ug/L	P384835	
		Acetamiprid**	0.0020	U	ug/L	P384835	
		Endothall**	0.25	U	ug/L	P384836	
		Glufosinate**	0.10	U	ug/L	P384836	
		Glyphosate**	11		ug/L	P384836	
		Afidopyropen**	0.0020	U	ug/L	P384835	
		Bentazon	0.037		ug/L	P384835	
		Benzovindiflupyr**	0.0020	U	ug/L	P384835	
		Carbamazepine**	0.0014	I	ug/L	P384835	
		Clothianidin**	0.011		ug/L	P384835	
		Dinotefuran**	0.0024	I	ug/L	P384835	
		Diuron	0.0034	I	ug/L	P384835	
		Fenuron	0.016	U	ug/L	P384835	
		Fluridone**	0.012		ug/L	P384835	
		Imazapyr**	0.12		ug/L	P384835	

Field ID: G5SE0043 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2183366	EPA 8321B	Hydrocodone**	0.0020	U	ug/L	P384835	
		Ibuprofen**	0.020	U	ug/L	P384835	
		Imidacloprid	0.18		ug/L	P384835	
		Linuron	0.0040	U	ug/L	P384835	
		Mandestrobin**	0.0020	U	ug/L	P384835	
		MCPP	0.0020	U	ug/L	P384835	
		Naproxen**	0.0080	U	ug/L	P384835	
		Primidone**	0.0084	I	ug/L	P384835	
		Pyraclostrobin**	0.0020	U	ug/L	P384835	
		Thiamethoxam**	0.018		ug/L	P384835	
		Tolfenpyrad**	0.0020	U	ug/L	P384835	
		Triclopyr**	0.0040	U	ug/L	P384835	
2183368	EPA 8270E	Aldrin	4.3	U	ng/L	P384679	
		Alpha-BHC	2.1	U	ng/L	P384679	
		Alpha-Chlordane	1.1	U	ng/L	P384679	
		Beta-BHC	8.5	U	ng/L	P384679	
		Beta-Cyfluthrin**	16	U	ng/L	P384679	
		Bifenthrin**	4.3	U	ng/L	P384679	
		Delta-BHC	8.5	U	ng/L	P384679	
		Gamma-BHC	8.5	U	ng/L	P384679	
		Chlorothalonil	2.1	U	ng/L	P384679	
		Cis-Nonachlor**	1.1	U	ng/L	P384679	
		Cypermethrin	21	U	ng/L	P384679	
		Dacthal**	1.1	U	ng/L	P384679	
		DDD-p,p'	5.3	U	ng/L	P384679	
		DDE-p,p'	5.3	U	ng/L	P384679	
		DDT-p,p'	6.4	U	ng/L	P384679	
		Dicofol	32	U	ng/L	P384679	
		Dieldrin	4.3	U	ng/L	P384679	
		Endosulfan I	4.3	U	ng/L	P384679	
		Endosulfan II	4.3	U	ng/L	P384679	
		Endosulfan Sulfate	2.1	U	ng/L	P384679	
		Endrin	2.1	U	ng/L	P384679	
		Endrin Aldehyde	2.1	U	ng/L	P384679	
		Endrin Ketone	2.1	UJ	ng/L	P384679	LCS, RPD
		Ethalfluralin**	3.2	U	ng/L	P384679	
		Gamma-Chlordane	1.1	U	ng/L	P384679	
		Heptachlor	1.6	U	ng/L	P384679	
		Heptachlor Epoxide	2.1	U	ng/L	P384679	
		Hexachlorobenzene	2.1	U	ng/L	P384679	
		Lambda-Cyhalothrin**	16	U	ng/L	P384679	
		Methoxychlor	4.3	U	ng/L	P384679	
		Mirex	2.1	U	ng/L	P384679	
		Permethrin	11	U	ng/L	P384679	
		Phenothrin**	32	U	ng/L	P384679	

Field ID: G5SE0043 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2183368	EPA 8270E	Prallethrin**	27	U	ng/L	P384679	
		Trans-Nonachlor**	1.1	U	ng/L	P384679	
		Trifluralin	2.7	U	ng/L	P384679	
	EPA 8276	Chlordane	5.3	U	ng/L	P384679	
		Toxaphene	32	UJ	ng/L	P384679	CCV
2183370	EPA 8270E	Acetochlor	0.24	U	ng/L	P384651	
		Alachlor	0.24	U	ng/L	P384651	
		Ametryn	0.59	U	ng/L	P384651	
		Atrazine	44		ng/L	P384651	
		Atrazine Desethyl	8.1		ng/L	P384651	
		Azinphos Methyl	2.0	U	ng/L	P384651	
		Bromacil	34		ng/L	P384651	
		Butylate	0.39	U	ng/L	P384651	
		Carbophenothion	0.49	U	ng/L	P384651	
		Chlorpyrifos Ethyl	0.59	I	ng/L	P384651	
		Chlorpyrifos Methyl	0.049	U	ng/L	P384651	
		Cyanazine	3.2	U	ng/L	P384651	
		Demeton	1.5	U	ng/L	P384651	
		Diazinon	0.12	U	ng/L	P384651	
		Dimethenamid**	0.098	U	ng/L	P384651	
		Disulfoton	0.49	U	ng/L	P384651	
		Dithiopyr**	0.16	I	ng/L	P384651	
		EPTC	1.2	U	ng/L	P384651	
		Ethion	0.15	U	ng/L	P384651	
		Ethoprop	0.098	U	ng/L	P384651	
		Fenamiphos	0.49	U	ng/L	P384651	RPD
		Fipronil	1.1		ng/L	P384651	
		Fipronil Desulfinyl**	0.96		ng/L	P384651	
		Fipronil Sulfide	0.74		ng/L	P384651	
		Fipronil Sulfone	2.9		ng/L	P384651	
		Flumioxazin**	120		ng/L	P384651	
		Fonofos	0.20	U	ng/L	P384651	
		Hexazinone	1.1	I	ng/L	P384651	
		Imazalil**	0.73	U	ng/L	P384651	
		Malathion	0.34	U	ng/L	P384651	
		Metalaxyl	9.9		ng/L	P384651	
		Metolachlor	25		ng/L	P384651	
		Metribuzin	3.2	U	ng/L	P384651	
		Mevinphos	0.49	U	ng/L	P384651	
		Molinate	0.29	U	ng/L	P384651	
		Naled**	1.5	U	ng/L	P384651	
		Norflurazon	43		ng/L	P384651	
		Oxadiazon	21		ng/L	P384651	
		Parathion Ethyl	0.24	U	ng/L	P384651	
		Parathion Methyl	0.54	U	ng/L	P384651	

Field ID: G5SE0043 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2183370	EPA 8270E	Pendimethalin	0.98	U	ng/L	P384651	
		Phorate	0.24	U	ng/L	P384651	
		Prodiamine**	0.18	I	ng/L	P384651	
		Prometon	0.88	U	ng/L	P384651	
		Prometryn	0.20	U	ng/L	P384651	
		Pronamide**	0.15	U	ng/L	P384651	
		Propiconazole**	0.49	U	ng/L	P384651	
		Simazine	0.56	I	ng/L	P384651	
		Sulfentrazone**	75		ng/L	P384651	
		Tebuconazole**	1.4	I	ng/L	P384651	
		Terbufos	0.098	U	ng/L	P384651	
		Terbuthylazine	0.41	U	ng/L	P384651	
2183372	EPA 200.7 Rev. 4.4	Barium	33.4		ug/L	P384874	
		Calcium	67.5		mg/L	P384874	
		Iron	1.09E+03		ug/L	P384874	
		Magnesium	18.1		mg/L	P384874	
		Potassium	6.3		mg/L	P384874	
		Sodium	81.0		mg/L	P384874	
		Zinc	6.7	I	ug/L	P384874	
	EPA 200.8 Rev. 5.4	Aluminum	236		ug/L	P384874	
		Antimony	0.11	I	ug/L	P384874	
		Arsenic	1.81		ug/L	P384874	
		Boron**	77.7		ug/L	P384874	
		Cadmium	0.020	U	ug/L	P384874	
		Chromium	1.1	I	ug/L	P384874	
		Copper	6.84		ug/L	P384874	
		Lead	0.35	I	ug/L	P384874	
		Nickel	0.68	I	ug/L	P384874	
		Selenium	0.26	I	ug/L	P384874	
		Silver	0.010	U	ug/L	P384874	
		Thallium	0.10	U	ug/L	P384874	
	SM 2340B	Hardness	243		mg/L	P384874	

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 high concentration of parameter in the spiked sample. The surrogate 2,4-D-d3 recovery could not be assessed due to an elevated level of 2,4-D in the sample matrix.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8276: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked.

Sample Location: Sweetwater Branch @ 441 **Collection Date/Time: 07/15/2020 12:35**

Field ID: G3SE0025 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2183339	EPA 180.1 Rev. 2.0	Turbidity	2.5		NTU	P385091	
	EPA 300.0 Rev. 2.1	Chloride	38		mg Cl/L	P385199	
		Sulfate	8.0		mg SO4/L	P385203	
	SM 2120 B-2011	Color (true)	49		PCU	P384751	
	SM 2320 B-2011	Total Alkalinity	34	A	mg CaCO3/L	P384850	
	SM 2540 C-2011	TDS	164	A	mg/L	P385024	
	SM 2540 D-2011	TSS	2	UA	mg/L	P384909	
	SM 4500 F-C-2011	Fluoride	0.13		mg F/L	P384855	
2183341	EPA 350.1 Rev. 2.0	Ammonia-N	0.14		mg N/L	P384823	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.60		mg N/L	P384983	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.12		mg N/L	P384914	
	EPA 365.1 Rev. 2.0	Total-P	0.41		mg P/L	P384879	
	SM 5310 B-2011	Organic Carbon	8.7		mg C/L	P384843	
2183343	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.28		mg P/L	P384789	

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: Padgett Branch @ 441 **Collection Date/Time: 07/15/2020 13:00**

Field ID: G3SE0026 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2183340	EPA 180.1 Rev. 2.0	Turbidity	7.0		NTU	P385091	
	EPA 300.0 Rev. 2.1	Chloride	15		mg Cl/L	P385199	
		Sulfate	6.2		mg SO4/L	P385203	
	SM 2120 B-2011	Color (true)	720		PCU	P384751	
	SM 2320 B-2011	Total Alkalinity	9.9		mg CaCO3/L	P384850	
	SM 2540 C-2011	TDS	194		mg/L	P385024	
	SM 2540 D-2011	TSS	18		mg/L	P384909	
	SM 4500 F-C-2011	Fluoride	0.049	I	mg F/L	P384855	
2183342	EPA 350.1 Rev. 2.0	Ammonia-N	0.030		mg N/L	P384823	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.6		mg N/L	P384983	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P384914	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P384879	
	SM 5310 B-2011	Organic Carbon	59		mg C/L	P384843	
2183344	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.072		mg P/L	P384789	

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: EPA 180.1 Rev. 2.0
Batch ID: P385091

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P384874

Component	Result	Code	Units
Barium	1.0	U	ug/L
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P384874

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385199

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385203

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P384823

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P384983

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P384914

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P384879

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P384789

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

Reference Method: EPA 8270E
Batch ID: P384651

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Carbophenothion	0.50	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Cyanazine	3.2	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Dimethenamid	0.10	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.10	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Fenamiphos	0.50	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Flumioxazin	1.8	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P384651

Component	Result	Code	Units
Imazalil	0.75	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.50	U	ng/L
Metribuzin	3.2	U	ng/L
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Naled	1.5	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.10	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Propiconazole	0.50	U	ng/L
Simazine	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L

Reference Method: EPA 8270E
Batch ID: P384679

Component	Result	Code	Units
Aldrin	4.0	U	ng/L
Alpha-BHC	2.0	U	ng/L
Alpha-Chlordane	1.0	U	ng/L
Beta-BHC	8.0	U	ng/L
Beta-Cyfluthrin	15	U	ng/L
Bifenthrin	4.0	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cis-Nonachlor	1.0	U	ng/L
Cypermethrin	20	U	ng/L
Dacthal	1.0	U	ng/L
DDD-p,p'	5.0	U	ng/L
DDE-p,p'	5.0	U	ng/L
DDT-p,p'	6.0	U	ng/L
Delta-BHC	8.0	U	ng/L
Dicofol	30	U	ng/L
Dieldrin	4.0	U	ng/L
Endosulfan I	4.0	U	ng/L
Endosulfan II	4.0	U	ng/L
Endosulfan Sulfate	2.0	U	ng/L
Endrin	2.0	U	ng/L
Endrin Aldehyde	2.0	U	ng/L
Endrin Ketone	2.0	U	ng/L
Ethalfluralin	3.0	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P384679

Component	Result	Code	Units
Gamma-BHC	8.0	U	ng/L
Gamma-Chlordane	1.0	U	ng/L
Heptachlor	1.5	U	ng/L
Heptachlor Epoxide	2.0	U	ng/L
Hexachlorobenzene	2.0	U	ng/L
Lambda-Cyhalothrin	15	U	ng/L
Methoxychlor	4.0	U	ng/L
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Phenothrin	30	U	ng/L
Prallethrin	25	U	ng/L
Trans-Nonachlor	1.0	U	ng/L
Trifluralin	2.5	U	ng/L

Reference Method: EPA 8276
Batch ID: P384679

Component	Result	Code	Units
Chlordane	5.0	U	ng/L
Toxaphene	30	U	ng/L

Reference Method: EPA 8321B
Batch ID: P384706

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

Reference Method: EPA 8321B
Batch ID: P384835

Component	Result	Code	Units
2,4-D	0.0020	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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P384835

Component	Result	Code	Units
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
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P384836

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

Reference Method: SM 2120 B-2011
Batch ID: P384751

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B-2011
Batch ID: P384752

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P384850

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

Reference Method: SM 2540 C-2011
Batch ID: P385024

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 2540 D-2011
Batch ID: P384909

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P384855

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-2011
Batch ID: P385004

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P384843

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P384874

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	103		P	85 - 115
Calcium	100		P	85 - 115
Iron	108		P	85 - 115
Magnesium	107		P	85 - 115
Potassium	105		P	85 - 115
Sodium	101		P	85 - 115
Zinc	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P384874

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	97.6		P	85 - 115
Antimony	99.1		P	85 - 115
Arsenic	103		P	85 - 115
Boron	99.9		P	85 - 115
Cadmium	99.2		P	85 - 115
Chromium	101		P	85 - 115
Copper	99.4		P	85 - 115
Lead	97.3		P	85 - 115
Nickel	101		P	85 - 115
Selenium	102		P	85 - 115
Silver	99.1		P	85 - 115
Thallium	99.7		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385199

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385203

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P384823

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P384983

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P384914

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P384879

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P384789

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	97.5		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P384651

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	90.5	90.0	P/P	71 - 122
Alachlor	91.5	91.8	P/P	70 - 121
Ametryn	90.6	105	P/P	49 - 137
Atrazine	98.1	96.1	P/P	76 - 125
Atrazine Desethyl	75.9	75.0	P/P	31 - 144
Azinphos Methyl	138	127	P/P	67 - 150
Bromacil	88.1	84.2	P/P	36 - 121
Butylate	63.8	62.6	P/P	33 - 88.0
Carbophenothion	98.0	103	P/P	50 - 150
Chlorpyrifos Ethyl	96.8	102	P/P	73 - 117
Chlorpyrifos Methyl	96.1	99.3	P/P	68 - 121
Cyanazine	106	103	P/P	20 - 250
Demeton	86.8	86.9	P/P	30 - 123
Diazinon	94.5	92.9	P/P	70 - 128
Dimethenamid	91.2	90.0	P/P	66 - 122
Disulfoton	87.2	86.2	P/P	46 - 124
Dithiopyr	90.8	92.3	P/P	69 - 122
EPTC	61.1	58.8	P/P	31 - 90.0
Ethion	102	106	P/P	45 - 135
Ethoprop	90.4	90.3	P/P	59 - 118
Fenamiphos	100	94.6	P/P	30 - 136
Fipronil	95.7	92.0	P/P	57 - 127
Fipronil Desulfinyl	100	96.9	P/P	51 - 122
Fipronil Sulfide	89.0	92.1	P/P	57 - 119
Fipronil Sulfone	93.5	93.3	P/P	51 - 119
Flumioxazin	131	134	P/P	70 - 200
Fonofos	88.6	90.5	P/P	60 - 120
Hexazinone	94.1	90.0	P/P	57 - 142
Imazalil	93.9	105	P/P	50 - 150
Malathion	107	111	P/P	67 - 128
Metalaxyl	94.6	89.8	P/P	21 - 148
Metolachlor	87.2	88.1	P/P	70 - 120
Metribuzin	104	101	P/P	20 - 253
Mevinphos	87.3	85.4	P/P	47 - 116

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P384651

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Molinate	74.3	68.8	P/P	41 - 99.0
Naled	74.6	69.3	P/P	40 - 130
Norflurazon	96.5	89.7	P/P	54 - 127
Oxadiazon	84.5	88.6	P/P	65 - 122
Parathion Ethyl	86.3	92.0	P/P	71 - 113
Parathion Methyl	101	100	P/P	73 - 129
Pendimethalin	95.2	112	P/P	63 - 130
Phorate	90.9	92.3	P/P	48 - 118
Prodiamine	74.1	79.1	P/P	20 - 144
Prometon	86.0	82.5	P/P	53 - 120
Prometryn	90.6	86.8	P/P	63 - 119
Pronamide	103	94.2	P/P	50 - 150
Propiconazole	85.2	84.0	P/P	50 - 150
Simazine	99.0	96.3	P/P	77 - 129
Sulfentrazone	90.1	80.3	P/P	50 - 150
Tebuconazole	52.0	47.6	P/P	20 - 118
Terbufos	96.1	99.5	P/P	61 - 119
Terbuthylazine	94.0	93.3	P/P	75 - 119

Reference Method: EPA 8270E
Batch ID: P384679

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	40.7	41.8	P/P	20 - 87.0
Alpha-BHC	85.4	91.4	P/P	65 - 142
Alpha-Chlordane	91.2	90.8	P/P	58 - 106
Beta-BHC	109	106	P/P	65 - 179
Beta-Cyfluthrin	96.3	98.9	P/P	39 - 153
Bifenthrin	89.4	88.5	P/P	38 - 128
Chlorothalonil	51.3	58.1	P/P	20 - 214
Cis-Nonachlor	91.8	90.6	P/P	56 - 113
Cypermethrin	94.5	98.7	P/P	37 - 130
Dacthal	95.4	95.8	P/P	75 - 109
DDD-p,p'	98.3	96.2	P/P	66 - 119
DDE-p,p'	86.4	84.8	P/P	53 - 108
DDT-p,p'	85.0	85.0	P/P	57 - 133
Delta-BHC	108	105	P/P	68 - 187
Dicofol	114	120	P/P	66 - 123
Dieldrin	96.8	95.3	P/P	65 - 111
Endosulfan I	94.1	94.8	P/P	65 - 115
Endosulfan II	110	107	P/P	68 - 133
Endosulfan Sulfate	103	103	P/P	62 - 127
Endrin	100	102	P/P	64 - 122
Endrin Aldehyde	120	120	P/P	61 - 132
Endrin Ketone	157	85.5	F/P	66 - 120
Ethalfluralin	78.0	77.4	P/P	57 - 127
Gamma-BHC	102	101	P/P	71 - 158
Gamma-Chlordane	87.1	86.1	P/P	53 - 106
Heptachlor	75.5	77.5	P/P	45 - 96.0
Heptachlor Epoxide	92.7	93.2	P/P	64 - 109
Hexachlorobenzene	70.2	70.6	P/P	46 - 103
Lambda-Cyhalothrin	102	104	P/P	38 - 145

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P384679

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Methoxychlor	107	106	P/P	69 - 149
Mirex	58.2	58.9	P/P	31 - 90.0
Permethrin	79.5	80.8	P/P	41 - 108
Phenothrin	46.3	47.0	P/P	22 - 91.0
Prallethrin	72.8	64.7	P/P	32 - 92.0
Trans-Nonachlor	87.5	86.5	P/P	50 - 107
Trifluralin	80.5	79.6	P/P	58 - 119

Reference Method: EPA 8276
Batch ID: P384679

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	88.0	91.6	P/P	47 - 119
Toxaphene	110	108	P/P	41 - 112

Reference Method: EPA 8321B
Batch ID: P384706

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	75.3		P	30 - 160
Aldicarb	78.1		P	30 - 160
Aldicarb Sulfone	84.7		P	30 - 160
Aldicarb Sulfoxide	81.4		P	30 - 160
Carbaryl	49.1		P	30 - 160
Carbofuran	53.9		P	30 - 160
Methiocarb	49.5		P	30 - 160
Methomyl	84.2		P	30 - 160
Oxamyl	83.5		P	30 - 160
Propoxur	55.5		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P384835

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	115		P	30 - 160
Acetaminophen	79.1		P	30 - 160
Acetamiprid	78.6		P	30 - 160
Afidopyropen	65.2		P	30 - 160
Bentazon	62.6		P	30 - 160
Benzovindiflupyr	69.9		P	30 - 160
Carbamazepine	66.9		P	30 - 160
Clothianidin	76.8		P	30 - 160
Dinotefuran	86.6		P	30 - 160
Diuron	58.2		P	30 - 160
Fenuron	101		P	30 - 160
Fluridone	90.5		P	30 - 160
Hydrocodone	82.3		P	30 - 160
Ibuprofen	79.6		P	30 - 160
Imazapyr	100		P	30 - 160
Imidacloprid	97.6		P	30 - 160
Linuron	67.0		P	30 - 160
Mandestrobin	75.5		P	30 - 160

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P384835

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
MCPP	129		P	30 - 160
Naproxen	69.1		P	30 - 160
Primidone	77.2		P	30 - 160
Pyraclostrobin	74.1		P	30 - 160
Thiamethoxam	93.7		P	30 - 160
Tolfenpyrad	54.2		P	30 - 160
Triclopyr	95.7		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P384836

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	72.1		P	40 - 150
AMPA	86.1		P	40 - 150
Endothall	96.4		P	40 - 150
Glufosinate	94.9		P	40 - 150
Glyphosate	84.9		P	40 - 140
Sucralose	92.1		P	40 - 150

Reference Method: SM 2120 B-2011
Batch ID: P384751

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.0		P	85 - 115

Reference Method: SM 2120 B-2011
Batch ID: P384752

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.0		P	85 - 115

Reference Method: SM 2320 B-2011
Batch ID: P384850

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.2		P	93 - 104

Reference Method: SM 4500 F-C-2011
Batch ID: P384855

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.9		P	90 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P385004

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	90 - 106

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P384843

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.7		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P384874

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2183868	Barium	103	104	P/P	80 - 120
2183868	Calcium	103		P	80 - 120
2183868	Iron	108	106	P/P	80 - 120
2183868	Magnesium	106	104	P/P	80 - 120
2183868	Potassium	103	101	P/P	80 - 120
2183868	Sodium	101		P	80 - 120
2183868	Zinc	105	104	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P384874

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2183868	Aluminum	108	105	P/P	80 - 120
2183868	Antimony	101	99.8	P/P	80 - 120
2183868	Arsenic	103	102	P/P	80 - 120
2183868	Boron	104	103	P/P	80 - 120
2183868	Cadmium	106	102	P/P	80 - 120
2183868	Chromium	104	102	P/P	80 - 120
2183868	Copper	99.7	97.9	P/P	80 - 120
2183868	Lead	98.0	99.0	P/P	80 - 120
2183868	Nickel	99.0	98.7	P/P	80 - 120
2183868	Selenium	100	97.3	P/P	80 - 120
2183868	Silver	101	102	P/P	80 - 120
2183868	Thallium	102	104	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385199

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2183497	Chloride	96.1		P	90 - 110
2183528	Chloride	99.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385203

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2183497	Sulfate	94.5		P	90 - 110
2183528	Sulfate	96.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P384823

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2183319	Ammonia-N	97.7	99.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P384983

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2183341	Kjeldahl Nitrogen	103	102	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P384914

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2183348	NO2NO3-N	96.2		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P384879

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2183186	Total-P	108	109	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P384789

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2183321	O-Phosphate-P	96.5	97.1	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P384651

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2182712	Acetochlor	96.4	93.5	P/P	68 - 126
2182712	Alachlor	98.6	93.6	P/P	66 - 125
2182712	Azinphos Methyl	133	124	P/P	54 - 162
2182712	Bromacil	91.8	86.3	P/P	34 - 144
2182712	Butylate	51.2	57.6	P/P	16 - 92.0
2182712	Carbophenothion	83.6	85.5	P/P	50 - 150
2182712	Chlorpyrifos Ethyl	104	97.1	P/P	63 - 124
2182712	Chlorpyrifos Methyl	90.6	92.0	P/P	64 - 125
2182712	Cyanazine	106	95.7	P/P	13 - 245
2182712	Demeton	96.5	95.8	P/P	20 - 154
2182712	Diazinon	104	98.8	P/P	66 - 141
2182712	Dimethenamid	102	98.6	P/P	50 - 130
2182712	Disulfoton	89.0	89.9	P/P	55 - 130
2182712	Dithiopyr	97.5	93.8	P/P	66 - 122
2182712	EPTC	50.4	60.5	P/P	15 - 93.0
2182712	Ethion	89.0	95.8	P/P	15 - 148
2182712	Ethoprop	90.7	91.9	P/P	59 - 126
2182712	Fenamiphos	75.9	108	P/P	39 - 137
2182712	Fipronil	107	99.9	P/P	47 - 131
2182712	Fipronil Desulfinyl	106	97.4	P/P	43 - 121
2182712	Fipronil Sulfide	89.2	83.2	P/P	29 - 134
2182712	Fipronil Sulfone	90.2	86.8	P/P	19 - 131
2182712	Flumioxazin	198	185	P/P	70 - 200
2182712	Fonofos	88.2	85.8	P/P	62 - 128
2182712	Hexazinone	104	106	P/P	58 - 154
2182712	Imazalil	74.5	66.1	P/P	50 - 150
2182712	Malathion	102	106	P/P	54 - 135
2182712	Metalaxyl	94.6	90.0	P/P	46 - 136
2182712	Metolachlor	90.4	88.0	P/P	62 - 126
2182712	Metribuzin	111	104	P/P	44 - 277
2182712	Mevinphos	88.3	90.2	P/P	44 - 135
2182712	Molinate	71.4	74.4	P/P	31 - 104
2182712	Naled	84.7	80.4	P/P	40 - 130
2182712	Norflurazon	92.0	87.1	P/P	32 - 134

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P384651

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2182712	Oxadiazon	79.1	76.6	P/P	55 - 123
2182712	Parathion Ethyl	92.2	94.7	P/P	67 - 120
2182712	Parathion Methyl	104	105	P/P	70 - 140
2182712	Pendimethalin	118	120	P/P	59 - 145
2182712	Phorate	86.0	84.0	P/P	52 - 127
2182712	Prodiamine	112	110	P/P	11 - 157
2182712	Prometon	91.6	86.6	P/P	55 - 130
2182712	Prometryn	95.5	91.7	P/P	55 - 127
2182712	Pronamide	121	111	P/P	50 - 150
2182712	Sulfentrazone	90.7	85.7	P/P	50 - 150
2182712	Tebuconazole	50.7	49.6	P/P	10 - 122
2182712	Terbufos	97.7	96.9	P/P	65 - 131
2182712	Terbuthylazine	106	100	P/P	63 - 131

Reference Method: EPA 8270E
Batch ID: P384679

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2183192	Aldrin	52.8	51.2	P/P	32 - 82.0
2183192	Alpha-BHC	93.9	95.4	P/P	68 - 157
2183192	Alpha-Chlordane	88.1	88.1	P/P	54 - 108
2183192	Beta-BHC	112	116	P/P	54 - 200
2183192	Beta-Cyfluthrin	92.8	87.9	P/P	50 - 154
2183192	Bifenthrin	77.2	75.6	P/P	49 - 124
2183192	Chlorothalonil	38.4	29.2	P/P	10 - 289
2183192	Cis-Nonachlor	87.9	87.8	P/P	53 - 112
2183192	Cypermethrin	91.8	90.3	P/P	43 - 141
2183192	Dacthal	98.1	98.7	P/P	75 - 112
2183192	DDD-p,p'	94.8	95.9	P/P	58 - 125
2183192	DDE-p,p'	77.8	78.3	P/P	50 - 108
2183192	DDT-p,p'	79.8	79.5	P/P	52 - 140
2183192	Delta-BHC	147	141	P/P	61 - 228
2183192	Dicofol	104	99.0	P/P	59 - 130
2183192	Dieldrin	96.0	97.8	P/P	57 - 121
2183192	Endosulfan I	94.7	96.5	P/P	62 - 123
2183192	Endosulfan II	113	118	P/P	48 - 163
2183192	Endosulfan Sulfate	113	110	P/P	63 - 132
2183192	Endrin	99.2	102	P/P	58 - 128
2183192	Endrin Aldehyde	109	113	P/P	44 - 126
2183192	Endrin Ketone	103	103	P/P	68 - 127
2183192	Ethalfluralin	75.0	76.6	P/P	55 - 131
2183192	Gamma-BHC	110	112	P/P	54 - 206
2183192	Gamma-Chlordane	81.8	82.9	P/P	52 - 105
2183192	Heptachlor	68.0	65.9	P/P	47 - 94.0
2183192	Heptachlor Epoxide	93.4	93.4	P/P	61 - 113
2183192	Hexachlorobenzene	61.0	62.3	P/P	45 - 100
2183192	Lambda-Cyhalothrin	96.7	93.2	P/P	37 - 165
2183192	Methoxychlor	96.7	94.8	P/P	63 - 153
2183192	Mirex	60.4	59.8	P/P	38 - 90.0
2183192	Permethrin	73.2	70.9	P/P	45 - 112
2183192	Phenothrin	55.6	54.0	P/P	22 - 118
2183192	Prallethrin	76.6	78.2	P/P	21 - 114

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P384679

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2183192	Trans-Nonachlor	82.7	83.1	P/P	50 - 103
2183192	Trifluralin	75.8	75.7	P/P	57 - 122

Reference Method: EPA 8276
Batch ID: P384679

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2183537	Chlordane	92.9	91.9	P/P	34 - 129
2183537	Toxaphene	106	112	P/P	26 - 123

Reference Method: EPA 8321B
Batch ID: P384706

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2182702	3-Hydroxycarbofuran	56.6	56.8	P/P	30 - 160
2182702	Aldicarb	59.7	49.0	P/P	30 - 160
2182702	Aldicarb Sulfone	69.6	65.8	P/P	30 - 160
2182702	Aldicarb Sulfoxide	36.2	35.1	P/P	30 - 160
2182702	Carbaryl	40.5	36.3	P/P	30 - 160
2182702	Carbofuran	45.5	41.1	P/P	30 - 160
2182702	Methiocarb	44.6	40.1	P/P	30 - 160
2182702	Methomyl	68.1	67.1	P/P	30 - 160
2182702	Oxamyl	62.4	61.0	P/P	30 - 160
2182702	Propoxur	42.8	39.9	P/P	30 - 160

Reference Method: EPA 8321B
Batch ID: P384835

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2183089	Acetaminophen	93.3	85.9	P/P	30 - 160
2183089	Acetamiprid	73.3	69.5	P/P	30 - 160
2183089	Afidopyropen	63.4	57.7	P/P	30 - 160
2183089	Benzovindiflupyr	58.9	56.6	P/P	30 - 160
2183089	Carbamazepine	50.1	50.3	P/P	30 - 160
2183089	Clothianidin	76.7	74.8	P/P	30 - 160
2183089	Dinotefuran	96.0	91.4	P/P	30 - 160
2183089	Diuron	38.5	36.6	P/P	30 - 160
2183089	Fenuron	82.7	80.5	P/P	30 - 160
2183089	Fluridone	88.1	80.1	P/P	30 - 160
2183089	Hydrocodone	71.3	66.3	P/P	30 - 160
2183089	Ibuprofen	65.5	62.7	P/P	30 - 160
2183089	Imidacloprid	127	127	P/P	30 - 160
2183089	Linuron	50.4	52.2	P/P	30 - 160
2183089	Mandestrobin	70.9	66.5	P/P	30 - 160
2183089	MCPP	122	122	P/P	30 - 160
2183089	Naproxen	76.0	61.5	P/P	30 - 160
2183089	Primidone	88.2	79.7	P/P	30 - 160
2183089	Pyraclostrobin	70.6	70.4	P/P	30 - 160
2183089	Thiamethoxam	101	103	P/P	30 - 160
2183089	Tolfenpyrad	47.2	44.5	P/P	30 - 160
2183089	Triclopyr	97.1	97.1	P/P	30 - 160

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P384836

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2183365	Acesulfame K	60.0	61.1	P/P	40 - 150
2183365	AMPA	60.8	51.5	P/P	40 - 150
2183365	Endothall	87.8	86.4	P/P	40 - 150
2183365	Glufosinate	69.8	71.1	P/P	40 - 150
2183365	Glyphosate	42.5	47.5	P/P	40 - 140
2183365	Sucralose	107	112	P/P	40 - 150

Reference Method: SM 4500 F-C-2011
Batch ID: P384855

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2183339	Fluoride	103	100	P/P	94 - 107

Reference Method: SM 4500 F-C-2011
Batch ID: P385004

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2184058	Fluoride	99.6	99.6	P/P	94 - 107

Reference Method: SM 5310 B-2011
Batch ID: P384843

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2183529	Organic Carbon	99.4	99.8	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P385091

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2183465	Turbidity	1.41	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P384874

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2183868	Barium	1.31	Spike	P	0 - 20
2183868	Calcium	0.414	Spike	P	0 - 20
2183868	Iron	1.02	Spike	P	0 - 20
2183868	Magnesium	1.02	Spike	P	0 - 20
2183868	Potassium	1.41	Spike	P	0 - 20
2183868	Sodium	0.0714	Spike	P	0 - 20
2183868	Zinc	0.219	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P384874

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2183868	Aluminum	2.30	Spike	P	0 - 20
2183868	Antimony	1.39	Spike	P	0 - 20
2183868	Arsenic	0.848	Spike	P	0 - 20
2183868	Boron	0.441	Spike	P	0 - 20
2183868	Cadmium	3.78	Spike	P	0 - 20
2183868	Chromium	1.50	Spike	P	0 - 20
2183868	Copper	1.72	Spike	P	0 - 20
2183868	Lead	0.990	Spike	P	0 - 20
2183868	Nickel	0.256	Spike	P	0 - 20
2183868	Selenium	3.17	Spike	P	0 - 20
2183868	Silver	0.884	Spike	P	0 - 20
2183868	Thallium	2.34	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385199

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2183497	Chloride	0.144	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385203

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2183497	Sulfate	0.0679	Sample	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P384823

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2183319	Ammonia-N	1.90	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P384983

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2183341	Kjeldahl Nitrogen	0.714	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P384914

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2183348	NO2NO3-N	0.506	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P384879

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2183186	Total-P	0.337	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P384789

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2183321	O-Phosphate-P	0.515	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P384651

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2182712	Acetochlor	3.05	Spike	P	0 - 30
2182712	Alachlor	5.15	Spike	P	0 - 30
2182712	Ametryn	6.72	Spike	P	0 - 30
2182712	Atrazine	0.746	Spike	P	0 - 30
2182712	Atrazine Desethyl	2.03	Spike	P	0 - 30
2182712	Azinphos Methyl	7.16	Spike	P	0 - 30
2182712	Bromacil	6.17	Spike	P	0 - 30
2182712	Butylate	11.7	Spike	P	0 - 30
2182712	Carbophenothion	2.17	Spike	P	0 - 30
2182712	Chlorpyrifos Ethyl	6.81	Spike	P	0 - 30
2182712	Chlorpyrifos Methyl	1.53	Spike	P	0 - 30
2182712	Cyanazine	10.5	Spike	P	0 - 30
2182712	Demeton	0.659	Spike	P	0 - 30
2182712	Diazinon	5.24	Spike	P	0 - 30
2182712	Dimethenamid	3.73	Spike	P	0 - 30
2182712	Disulfoton	1.05	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P384651

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2182712	Dithiopyr	3.61	Spike	P	0 - 30
2182712	EPTC	18.1	Spike	P	0 - 30
2182712	Ethion	7.34	Spike	P	0 - 30
2182712	Ethoprop	1.38	Spike	P	0 - 30
2182712	Fenamiphos	35.0	Spike	F	0 - 30
2182712	Fipronil	6.70	Spike	P	0 - 30
2182712	Fipronil Desulfinyl	6.62	Spike	P	0 - 30
2182712	Fipronil Sulfide	5.44	Spike	P	0 - 30
2182712	Fipronil Sulfone	2.18	Spike	P	0 - 30
2182712	Flumioxazin	6.60	Spike	P	0 - 30
2182712	Fonofos	2.77	Spike	P	0 - 30
2182712	Hexazinone	2.16	Spike	P	0 - 30
2182712	Imazalil	12.1	Spike	P	0 - 30
2182712	Malathion	4.17	Spike	P	0 - 30
2182712	Metalaxyl	4.98	Spike	P	0 - 30
2182712	Metolachlor	2.68	Spike	P	0 - 30
2182712	Metribuzin	6.00	Spike	P	0 - 30
2182712	Mevinphos	2.14	Spike	P	0 - 30
2182712	Molinate	4.11	Spike	P	0 - 30
2182712	Naled	5.23	Spike	P	0 - 30
2182712	Norflurazon	5.47	Spike	P	0 - 30
2182712	Oxadiazon	3.08	Spike	P	0 - 30
2182712	Parathion Ethyl	2.67	Spike	P	0 - 30
2182712	Parathion Methyl	1.47	Spike	P	0 - 30
2182712	Pendimethalin	1.76	Spike	P	0 - 30
2182712	Phorate	2.36	Spike	P	0 - 30
2182712	Prodiamine	2.61	Spike	P	0 - 30
2182712	Prometon	5.62	Spike	P	0 - 30
2182712	Prometryn	4.13	Spike	P	0 - 30
2182712	Pronamide	8.99	Spike	P	0 - 30
2182712	Propiconazole	8.26	Spike	P	0 - 30
2182712	Simazine	5.70	Spike	P	0 - 30
2182712	Sulfentrazone	4.89	Spike	P	0 - 30
2182712	Tebuconazole	1.53	Spike	P	0 - 30
2182712	Terbufos	0.836	Spike	P	0 - 30
2182712	Terbuthylazine	5.44	Spike	P	0 - 30
LFB	Acetochlor	0.549	LCS	P	0 - 30
LFB	Alachlor	0.331	LCS	P	0 - 30
LFB	Ametryn	14.5	LCS	P	0 - 30
LFB	Atrazine	2.05	LCS	P	0 - 30
LFB	Atrazine Desethyl	1.18	LCS	P	0 - 30
LFB	Azinphos Methyl	8.10	LCS	P	0 - 30
LFB	Bromacil	4.52	LCS	P	0 - 30
LFB	Butylate	1.98	LCS	P	0 - 30
LFB	Carbophenothion	4.94	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	5.39	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	3.21	LCS	P	0 - 30
LFB	Cyanazine	3.18	LCS	P	0 - 30
LFB	Demeton	0.147	LCS	P	0 - 30
LFB	Diazinon	1.77	LCS	P	0 - 30
LFB	Dimethenamid	1.37	LCS	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P384651

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Disulfoton	1.22	LCS	P	0 - 30
LFB	Dithiopyr	1.66	LCS	P	0 - 30
LFB	EPTC	3.81	LCS	P	0 - 30
LFB	Ethion	3.26	LCS	P	0 - 30
LFB	Ethoprop	0.177	LCS	P	0 - 30
LFB	Fenamiphos	5.95	LCS	P	0 - 30
LFB	Fipronil	3.95	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	3.66	LCS	P	0 - 30
LFB	Fipronil Sulfide	3.43	LCS	P	0 - 30
LFB	Fipronil Sulfone	0.202	LCS	P	0 - 30
LFB	Flumioxazin	2.32	LCS	P	0 - 30
LFB	Fonofos	2.11	LCS	P	0 - 30
LFB	Hexazinone	4.48	LCS	P	0 - 30
LFB	Imazalil	10.8	LCS	P	0 - 30
LFB	Malathion	3.50	LCS	P	0 - 30
LFB	Metalaxyl	5.23	LCS	P	0 - 30
LFB	Metolachlor	1.01	LCS	P	0 - 30
LFB	Metribuzin	3.30	LCS	P	0 - 30
LFB	Mevinphos	2.24	LCS	P	0 - 30
LFB	Molinate	7.66	LCS	P	0 - 30
LFB	Naled	7.30	LCS	P	0 - 30
LFB	Norflurazon	7.23	LCS	P	0 - 30
LFB	Oxadiazon	4.82	LCS	P	0 - 30
LFB	Parathion Ethyl	6.34	LCS	P	0 - 30
LFB	Parathion Methyl	0.313	LCS	P	0 - 30
LFB	Pendimethalin	16.2	LCS	P	0 - 30
LFB	Phorate	1.42	LCS	P	0 - 30
LFB	Prodiamine	6.53	LCS	P	0 - 30
LFB	Prometon	4.19	LCS	P	0 - 30
LFB	Prometryn	4.26	LCS	P	0 - 30
LFB	Pronamide	8.52	LCS	P	0 - 30
LFB	Propiconazole	1.31	LCS	P	0 - 30
LFB	Simazine	2.80	LCS	P	0 - 30
LFB	Sulfentrazone	11.4	LCS	P	0 - 30
LFB	Tebuconazole	8.79	LCS	P	0 - 30
LFB	Terbufos	3.47	LCS	P	0 - 30
LFB	Terbuthylazine	0.719	LCS	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P384679

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2183192	Aldrin	3.01	Spike	P	0 - 30
2183192	Alpha-BHC	1.62	Spike	P	0 - 30
2183192	Alpha-Chlordane	0.0184	Spike	P	0 - 30
2183192	Beta-BHC	3.40	Spike	P	0 - 30
2183192	Beta-Cyfluthrin	5.41	Spike	P	0 - 30
2183192	Bifenthrin	2.21	Spike	P	0 - 30
2183192	Chlorothalonil	27.0	Spike	P	0 - 30
2183192	Cis-Nonachlor	0.0996	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P384679

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2183192	Cypermethrin	1.69	Spike	P	0 - 30
2183192	Dacthal	0.552	Spike	P	0 - 30
2183192	DDD-p,p'	1.21	Spike	P	0 - 30
2183192	DDE-p,p'	0.696	Spike	P	0 - 30
2183192	DDT-p,p'	0.286	Spike	P	0 - 30
2183192	Delta-BHC	4.26	Spike	P	0 - 30
2183192	Dicofol	5.02	Spike	P	0 - 30
2183192	Dieldrin	1.94	Spike	P	0 - 30
2183192	Endosulfan I	1.89	Spike	P	0 - 30
2183192	Endosulfan II	4.34	Spike	P	0 - 30
2183192	Endosulfan Sulfate	2.46	Spike	P	0 - 30
2183192	Endrin	3.27	Spike	P	0 - 30
2183192	Endrin Aldehyde	2.80	Spike	P	0 - 30
2183192	Endrin Ketone	0.445	Spike	P	0 - 30
2183192	Ethalfluralin	2.16	Spike	P	0 - 30
2183192	Gamma-BHC	1.84	Spike	P	0 - 30
2183192	Gamma-Chlordane	1.38	Spike	P	0 - 30
2183192	Heptachlor	3.25	Spike	P	0 - 30
2183192	Heptachlor Epoxide	0.0225	Spike	P	0 - 30
2183192	Hexachlorobenzene	2.05	Spike	P	0 - 30
2183192	Lambda-Cyhalothrin	3.64	Spike	P	0 - 30
2183192	Methoxychlor	2.05	Spike	P	0 - 30
2183192	Mirex	1.06	Spike	P	0 - 30
2183192	Permethrin	3.20	Spike	P	0 - 30
2183192	Phenothrin	3.02	Spike	P	0 - 30
2183192	Prallethrin	2.01	Spike	P	0 - 30
2183192	Trans-Nonachlor	0.529	Spike	P	0 - 30
2183192	Trifluralin	0.0860	Spike	P	0 - 30
LFB	Aldrin	2.61	LCS	P	0 - 30
LFB	Alpha-BHC	6.89	LCS	P	0 - 30
LFB	Alpha-Chlordane	0.460	LCS	P	0 - 30
LFB	Beta-BHC	2.65	LCS	P	0 - 30
LFB	Beta-Cyfluthrin	2.74	LCS	P	0 - 30
LFB	Bifenthrin	1.10	LCS	P	0 - 30
LFB	Chlorothalonil	12.3	LCS	P	0 - 30
LFB	Cis-Nonachlor	1.32	LCS	P	0 - 30
LFB	Cypermethrin	4.39	LCS	P	0 - 30
LFB	Dacthal	0.404	LCS	P	0 - 30
LFB	DDD-p,p'	2.15	LCS	P	0 - 30
LFB	DDE-p,p'	1.90	LCS	P	0 - 30
LFB	DDT-p,p'	0.0102	LCS	P	0 - 30
LFB	Delta-BHC	2.38	LCS	P	0 - 30
LFB	Dicofol	5.04	LCS	P	0 - 30
LFB	Dieldrin	1.54	LCS	P	0 - 30
LFB	Endosulfan I	0.696	LCS	P	0 - 30
LFB	Endosulfan II	3.05	LCS	P	0 - 30
LFB	Endosulfan Sulfate	0.398	LCS	P	0 - 30
LFB	Endrin	1.16	LCS	P	0 - 30
LFB	Endrin Aldehyde	0.238	LCS	P	0 - 30
LFB	Endrin Ketone	58.9	LCS	F	0 - 30
LFB	Ethalfluralin	0.658	LCS	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P384679

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Gamma-BHC	0.668	LCS	P	0 - 30
LFB	Gamma-Chlordane	1.12	LCS	P	0 - 30
LFB	Heptachlor	2.70	LCS	P	0 - 30
LFB	Heptachlor Epoxide	0.551	LCS	P	0 - 30
LFB	Hexachlorobenzene	0.508	LCS	P	0 - 30
LFB	Lambda-Cyhalothrin	1.97	LCS	P	0 - 30
LFB	Methoxychlor	0.816	LCS	P	0 - 30
LFB	Mirex	1.08	LCS	P	0 - 30
LFB	Permethrin	1.65	LCS	P	0 - 30
LFB	Phenothrin	1.57	LCS	P	0 - 30
LFB	Prallethrin	11.8	LCS	P	0 - 30
LFB	Trans-Nonachlor	1.13	LCS	P	0 - 30
LFB	Trifluralin	1.13	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P384679

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2183537	Chlordane	1.12	Spike	P	0 - 30
2183537	Toxaphene	5.77	Spike	P	0 - 30
LFB	Chlordane	4.04	LCS	P	0 - 30
LFB	Toxaphene	1.77	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P384706

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2182702	3-Hydroxycarbofuran	0.394	Spike	P	0 - 30
2182702	Aldicarb	19.8	Spike	P	0 - 30
2182702	Aldicarb Sulfone	5.66	Spike	P	0 - 30
2182702	Aldicarb Sulfoxide	3.06	Spike	P	0 - 30
2182702	Carbaryl	10.8	Spike	P	0 - 30
2182702	Carbofuran	10.2	Spike	P	0 - 30
2182702	Methiocarb	10.6	Spike	P	0 - 30
2182702	Methomyl	1.46	Spike	P	0 - 30
2182702	Oxamyl	2.31	Spike	P	0 - 30
2182702	Propoxur	7.08	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P384835

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2183089	2,4-D	1.80	Spike	P	0 - 30
2183089	Acetaminophen	8.22	Spike	P	0 - 30
2183089	Acetamiprid	5.27	Spike	P	0 - 30
2183089	Afidopyropen	9.29	Spike	P	0 - 30
2183089	Bentazon	0.870	Spike	P	0 - 30
2183089	Benzovindiflupyr	4.00	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P384835

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2183089	Carbamazepine	0.389	Spike	P	0 - 30
2183089	Clothianidin	2.55	Spike	P	0 - 30
2183089	Dinotefuran	4.88	Spike	P	0 - 30
2183089	Diuron	4.00	Spike	P	0 - 30
2183089	Fenuron	2.69	Spike	P	0 - 30
2183089	Fluridone	7.74	Spike	P	0 - 30
2183089	Hydrocodone	7.24	Spike	P	0 - 30
2183089	Ibuprofen	4.32	Spike	P	0 - 30
2183089	Imazapyr	5.38	Spike	P	0 - 30
2183089	Imidacloprid	0.128	Spike	P	0 - 30
2183089	Linuron	3.57	Spike	P	0 - 30
2183089	Mandestrobin	6.38	Spike	P	0 - 30
2183089	MCPP	0.692	Spike	P	0 - 30
2183089	Naproxen	21.1	Spike	P	0 - 30
2183089	Primidone	10.1	Spike	P	0 - 30
2183089	Pyraclostrobin	0.318	Spike	P	0 - 30
2183089	Thiamethoxam	1.10	Spike	P	0 - 30
2183089	Tolfenpyrad	5.84	Spike	P	0 - 30
2183089	Triclopyr	0.00865	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P384836

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2183365	Acesulfame K	1.80	Spike	P	0 - 30
2183365	AMPA	4.59	Spike	P	0 - 30
2183365	Endothall	1.57	Spike	P	0 - 30
2183365	Glufosinate	1.88	Spike	P	0 - 30
2183365	Glyphosate	1.59	Spike	P	0 - 30
2183365	Sucralose	4.01	Spike	P	0 - 30

Reference Method: SM 2120 B-2011
Batch ID: P384751

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2183345	Color (true)	0.713	Sample	P	0 - 20

Reference Method: SM 2120 B-2011
Batch ID: P384752

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2183566	Color (true)	1.49	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P384850

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

Quality Assurance Report
Precision

Reference Method: SM 2320 B-2011
Batch ID: P384850

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2183339	Total Alkalinity	1.20	Sample	P	0 - 8.1

Reference Method: SM 2540 C-2011
Batch ID: P385024

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2183339	TDS	1.82	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P384855

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2183339	Fluoride	1.87	Spike	P	0 - 2.8

Reference Method: SM 4500 F-C-2011
Batch ID: P385004

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2184058	Fluoride	0.0	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
Batch ID: P384843

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2183529	Organic Carbon	0.296	Spike	P	0 - 20

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2183363
Field Sample ID: G2SE0057

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	49.5	P	30 - 160

Lab Sample ID: 2183364
Field Sample ID: G5SE0043

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	53.2	P	30 - 160

Lab Sample ID: 2183365
Field Sample ID: G2SE0057

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	96.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	57.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	44.9	P	30 - 160
EPA 8321B	Diuron-d6	41.7	P	30 - 160
EPA 8321B	Endothall-d6	72.4	P	30 - 160
EPA 8321B	Endothall-d6	72.4	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	133	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	133	P	30 - 160
EPA 8321B	Ibuprofen-d3	66.8	P	30 - 160
EPA 8321B	Primidone-d5	53.1	P	30 - 160
EPA 8321B	Sucralose-d6	116	P	30 - 160
EPA 8321B	Sucralose-d6	116	P	30 - 160

Lab Sample ID: 2183366
Field Sample ID: G5SE0043

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	79.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	52.7	P	30 - 160
EPA 8321B	Diuron-d6	51.0	P	30 - 160
EPA 8321B	Endothall-d6	74.7	P	30 - 160
EPA 8321B	Endothall-d6	74.7	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	112	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	112	P	30 - 160
EPA 8321B	Ibuprofen-d3	73.1	P	30 - 160
EPA 8321B	Primidone-d5	66.6	P	30 - 160
EPA 8321B	Sucralose-d6	101	P	30 - 160
EPA 8321B	Sucralose-d6	101	P	30 - 160

Lab Sample ID: 2183367
Field Sample ID: G2SE0057

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	79.6	P	44 - 112
EPA 8270E	Tetrachloro-m-xylene	62.5	P	34 - 106
EPA 8276	Decachlorobiphenyl	72.8	P	26 - 97.0
EPA 8276	PCNB	102	P	38 - 141

Quality Assurance Report
Surrogates

Lab Sample ID: 2183368
Field Sample ID: G5SE0043

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	104	P	44 - 112
EPA 8270E	Tetrachloro-m-xylene	68.2	P	34 - 106
EPA 8276	Decachlorobiphenyl	72.2	P	26 - 97.0
EPA 8276	PCNB	105	P	38 - 141

Lab Sample ID: 2183369
Field Sample ID: G2SE0057

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	81.6	P	72 - 135
EPA 8270E	Terbufos-d10	87.8	P	57 - 134

Lab Sample ID: 2183370
Field Sample ID: G5SE0043

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	92.7	P	72 - 135
EPA 8270E	Terbufos-d10	90.6	P	57 - 134

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A100004
Included Lab Sample IDs: 2183371, 2183372

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	101	102	P/P	90 - 110
Calcium	102	104	P/P	90 - 110
Iron	105	106	P/P	90 - 110
Magnesium	103	104	P/P	90 - 110
Potassium	101	101	P/P	90 - 110
Sodium	104	103	P/P	90 - 110
Zinc	98.0	99.5	P/P	90 - 110

Reference Method: EPA 8276
Run ID: A100011
Included Lab Sample IDs: 2183367, 2183368

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	101		P	80 - 120
Toxaphene	122*		F	80 - 120

Reference Method: EPA 8321B
Run ID: A100012
Included Lab Sample IDs: 2183365, 2183366

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	80.2	84.5	P/P	60 - 160
Glufosinate	96.0	97.0	P/P	60 - 160
Glyphosate	86.3	91.5	P/P	60 - 160

Reference Method: SM 4500 F-C-2011
Run ID: A100019
Included Lab Sample IDs: 2183345

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	103	105	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A100028
Included Lab Sample IDs: 2183371, 2183372

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.5	98.6	P/P	90 - 110
Antimony	96.2	98.3	P/P	90 - 110
Arsenic	100	99.1	P/P	90 - 110
Boron	94.9	99.3	P/P	90 - 110
Cadmium	98.4	98.9	P/P	90 - 110
Chromium	96.2	95.4	P/P	90 - 110
Copper	96.1	94.0	P/P	90 - 110
Lead	95.3	96.3	P/P	90 - 110
Nickel	95.7	94.2	P/P	90 - 110
Selenium	99.4	99.6	P/P	90 - 110
Silver	95.3	96.1	P/P	90 - 110
Thallium	94.6	95.7	P/P	90 - 110

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Reference Method: EPA 351.2 Rev. 2.0
Run ID: A100044
Included Lab Sample IDs: 2183341, 2183342, 2183347, 2183348

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	107	108	P/P	90 - 110
Kjeldahl Nitrogen	108	105	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A100047
Included Lab Sample IDs: 2183339, 2183340, 2183345, 2183346

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

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A100104
Included Lab Sample IDs: 2183339, 2183340, 2183345, 2183346

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

Reference Method: EPA 8270E
Run ID: A100105
Included Lab Sample IDs: 2183367, 2183368

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	99.6		P	80 - 120
Alpha-BHC	97.1		P	80 - 120
Alpha-Chlordane	99.1		P	80 - 120
Beta-BHC	97.0		P	80 - 120
Beta-Cyfluthrin	90.0		P	80 - 120
Bifenthrin	92.1		P	80 - 120
Chlorothalonil	103		P	80 - 120
Cis-Nonachlor	97.7		P	80 - 120
Cypermethrin	91.7		P	80 - 120
Dacthal	102		P	80 - 120
DDD-p,p'	102		P	80 - 120
DDE-p,p'	99.9		P	80 - 120
DDT-p,p'	104		P	80 - 120
Delta-BHC	89.8		P	80 - 120
Dicofol	91.8		P	80 - 120
Dieldrin	102		P	80 - 120
Endosulfan I	101		P	80 - 120
Endosulfan II	96.7		P	80 - 120
Endosulfan Sulfate	87.4		P	80 - 120
Endrin	98.8		P	80 - 120
Endrin Aldehyde	99.7		P	80 - 120
Endrin Ketone	91.4		P	80 - 120
Ethalfluralin	92.8		P	80 - 120
Gamma-BHC	95.1		P	80 - 120
Gamma-Chlordane	98.3		P	80 - 120
Heptachlor	96.8		P	80 - 120
Heptachlor Epoxide	101		P	80 - 120
Hexachlorobenzene	100		P	80 - 120

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Calibration Verification

Reference Method: EPA 8270E
Run ID: A100105
Included Lab Sample IDs: 2183367, 2183368

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Lambda-Cyhalothrin	90.6		P	80 - 120
Methoxychlor	103		P	80 - 120
Mirex	92.2		P	80 - 120
Permethrin	92.9		P	80 - 120
Phenothrin	90.0		P	80 - 120
Prallethrin	88.0		P	80 - 120
Trans-Nonachlor	98.9		P	80 - 120
Trifluralin	95.3		P	80 - 120

Reference Method: EPA 8270E
Run ID: A100138
Included Lab Sample IDs: 2183368

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Alpha-Chlordane	99.1		P	80 - 120
Gamma-Chlordane	93.5		P	80 - 120

Reference Method: EPA 8321B
Run ID: A100141
Included Lab Sample IDs: 2183365, 2183366

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	90.4	91.8	P/P	60 - 160
Sucralose	94.2	90.4	P/P	60 - 160

Reference Method: EPA 8270E
Run ID: A100190
Included Lab Sample IDs: 2183369, 2183370

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	99.5		P	80 - 120
Alachlor	102		P	80 - 120
Ametryn	103		P	80 - 120
Atrazine	99.6		P	80 - 120
Atrazine Desethyl	109		P	80 - 120
Azinphos Methyl	98.3		P	80 - 120
Bromacil	99.1		P	80 - 120
Butylate	104		P	80 - 120
Carbophenothion	101		P	80 - 120
Chlorpyrifos Ethyl	99.3		P	80 - 120
Chlorpyrifos Methyl	101		P	80 - 120
Cyanazine	103		P	80 - 120
Demeton	95.8		P	80 - 120
Diazinon	101		P	80 - 120
Dimethenamid	101		P	80 - 120
Disulfoton	97.1		P	80 - 120
Dithiopyr	101		P	80 - 120
EPTC	101		P	80 - 120
Ethion	98.0		P	80 - 120
Ethoprop	101		P	80 - 120
Fenamiphos	95.7		P	80 - 120

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Reference Method: EPA 8270E
Run ID: A100190
Included Lab Sample IDs: 2183369, 2183370

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fipronil	97.4		P	80 - 120
Fipronil Desulfinyl	101		P	80 - 120
Fipronil Sulfide	94.6		P	80 - 120
Fipronil Sulfone	97.0		P	80 - 120
Flumioxazin	93.2		P	80 - 120
Fonofos	100		P	80 - 120
Hexazinone	103		P	80 - 120
Imazalil	114		P	80 - 120
Malathion	97.1		P	80 - 120
Metalaxyl	101		P	80 - 120
Metolachlor	98.0		P	80 - 120
Metribuzin	88.3		P	80 - 120
Mevinphos	99.0		P	80 - 120
Molinate	102		P	80 - 120
Naled	109		P	80 - 120
Norflurazon	97.7		P	80 - 120
Oxadiazon	104		P	80 - 120
Parathion Ethyl	97.2		P	80 - 120
Parathion Methyl	97.2		P	80 - 120
Pendimethalin	96.2		P	80 - 120
Phorate	94.6		P	80 - 120
Prodiamine	86.4		P	80 - 120
Prometon	98.2		P	80 - 120
Prometryn	100		P	80 - 120
Pronamide	101		P	80 - 120
Propiconazole	94.4		P	80 - 120
Simazine	98.5		P	80 - 120
Sulfentrazone	96.3		P	80 - 120
Tebuconazole	99.6		P	80 - 120
Terbufos	98.3		P	80 - 120
Terbuthylazine	100		P	80 - 120

Reference Method: EPA 8270E
Run ID: A100194
Included Lab Sample IDs: 2183369, 2183370

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	99.6		P	80 - 120
Norflurazon	95.1		P	80 - 120
Simazine	95.7		P	80 - 120

Reference Method: SM 2120 B-2011
Run ID: A99921
Included Lab Sample IDs: 2183339, 2183340, 2183345, 2183346

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	102	P/P	90 - 115
Color (true)	99.5	99.5	P/P	90 - 115
Color (true)	99.5	99.8	P/P	90 - 115

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Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A99941
Included Lab Sample IDs: 2183343, 2183344, 2183349, 2183350

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A99954
Included Lab Sample IDs: 2183341, 2183342, 2183347, 2183348

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.1	97.7	P/P	90 - 110
Ammonia-N	98.2	98.1	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A99964
Included Lab Sample IDs: 2183341, 2183342, 2183347, 2183348

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	103	98.3	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A99965
Included Lab Sample IDs: 2183339, 2183340, 2183345, 2183346

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.1	99.7	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Run ID: A99965
Included Lab Sample IDs: 2183339, 2183340, 2183346

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

Reference Method: EPA 8321B
Run ID: A99981
Included Lab Sample IDs: 2183365, 2183366

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	114	114	P/P	50 - 150
2,4-D	129	112	P/P	50 - 150
3-Hydroxycarbofuran	114	112	P/P	60 - 150
Acetaminophen	109	117	P/P	60 - 160
Acetamiprid	118	117	P/P	50 - 150
Afidopyropen	101	120	P/P	50 - 150
Aldicarb	109	108	P/P	60 - 150
Aldicarb Sulfone	111	103	P/P	50 - 150
Aldicarb Sulfoxide	108	101	P/P	50 - 150
Bentazon	102	125	P/P	50 - 160
Benzovindiflupyr	120	118	P/P	50 - 150
Carbamazepine	110	112	P/P	60 - 150
Carbaryl	113	120	P/P	60 - 150
Carbofuran	121	120	P/P	50 - 150
Clothianidin	101	97.2	P/P	60 - 150

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Reference Method: EPA 8321B
Run ID: A99981
Included Lab Sample IDs: 2183365, 2183366

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dinotefuran	102	89.9	P/P	50 - 150
Diuron	111	114	P/P	60 - 160
Fenuron	114	111	P/P	60 - 150
Fluridone	120	126	P/P	60 - 160
Hydrocodone	107	105	P/P	60 - 150
Ibuprofen	103	115	P/P	50 - 160
Imazapyr	103	126	P/P	50 - 150
Imidacloprid	92.4	89.6	P/P	60 - 150
Linuron	115	121	P/P	60 - 150
Mandestrobin	121	123	P/P	50 - 150
MCPP	128	110	P/P	50 - 150
Methiocarb	103	110	P/P	50 - 150
Methomyl	110	108	P/P	50 - 150
Naproxen	114	111	P/P	50 - 160
Oxamyl	111	104	P/P	50 - 150
Primidone	88.5	93.9	P/P	60 - 150
Propoxur	115	112	P/P	50 - 150
Pyraclostrobin	117	123	P/P	60 - 150
Thiamethoxam	95.4	89.0	P/P	50 - 150
Tolfenpyrad	108	116	P/P	60 - 150
Triclopyr	103	103	P/P	50 - 150

Reference Method: EPA 8321B
Run ID: A99984
Included Lab Sample IDs: 2183365, 2183366

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	69.4	81.7	P/P	60 - 160
Endothall	95.5	97.4	P/P	60 - 160

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A99985
Included Lab Sample IDs: 2183341, 2183342, 2183347, 2183348

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A99998
Included Lab Sample IDs: 2183341, 2183342, 2183347, 2183348

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.8	99.2	P/P	90 - 110

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

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision		
						LCS	SMP	MS
EPA 180.1 Rev. 2.0	Turbidity						1.41	
EPA 200.7 Rev. 4.4	Barium	103		103	104			1.31
	Calcium	100		103				0.414
	Iron	108		108	106			1.02
	Magnesium	107		106	104			1.02
	Potassium	105		103	101			1.41
	Sodium	101		101				0.0714
	Zinc	101		105	104			0.219
EPA 200.8 Rev. 5.4	Aluminum	97.6		108	105			2.30
	Antimony	99.1		101	99.8			1.39
	Arsenic	103		103	102			0.848
	Boron	99.9		104	103			0.441
	Cadmium	99.2		106	102			3.78
	Chromium	101		104	102			1.50
	Copper	99.4		99.7	97.9			1.72
	Lead	97.3		98.0	99.0			0.990
	Nickel	101		99.0	98.7			0.256
	Selenium	102		100	97.3			3.17
	Silver	99.1		101	102			0.884
	Thallium	99.7		102	104			2.34
EPA 300.0 Rev. 2.1	Chloride	98.9		96.1	99.6		0.144	
	Sulfate	97.5		94.5	96.2		0.0679	
EPA 350.1 Rev. 2.0	Ammonia-N	96.4		97.7	99.5			1.90
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.6		103	102			0.714
EPA 353.2 Rev. 2.0	NO2NO3-N	100		96.2				0.506
EPA 365.1 Rev. 2.0	Total-P	106		108	109			0.337
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.5		96.5	97.1			0.515
EPA 8270E	Acetochlor	90.0	90.5	93.5	96.4	0.549		3.05
	Alachlor	91.8	91.5	93.6	98.6	0.331		5.15
	Aldrin	40.7	41.8	52.8	51.2	2.61		3.01
	Alpha-BHC	85.4	91.4	93.9	95.4	6.89		1.62
	Alpha-Chlordane	91.2	90.8	88.1	88.1	0.460		0.0184
	Ametryn	105	90.6			14.5		6.72
	Atrazine	96.1	98.1			2.05		0.746
	Atrazine Desethyl	75.0	75.9			1.18		2.03
	Azinphos Methyl	138	127	133	124	8.10		7.16
	Beta-BHC	109	106	112	116	2.65		3.40
	Beta-Cyfluthrin	96.3	98.9	92.8	87.9	2.74		5.41
	Bifenthrin	89.4	88.5	77.2	75.6	1.10		2.21
	Bromacil	88.1	84.2	91.8	86.3	4.52		6.17
	Butylate	63.8	62.6	51.2	57.6	1.98		11.7
	Carbophenothion	98.0	103	83.6	85.5	4.94		2.17
	Chlorothalonil	51.3	58.1	38.4	29.2	12.3		27.0
	Chlorpyrifos Ethyl	102	96.8	97.1	104	5.39		6.81
	Chlorpyrifos Methyl	99.3	96.1	92.0	90.6	3.21		1.53
	Cis-Nonachlor	91.8	90.6	87.9	87.8	1.32		0.0996
	Cyanazine	103	106	95.7	106	3.18		10.5
	Cypermethrin	94.5	98.7	91.8	90.3	4.39		1.69
	Dacthal	95.4	95.8	98.1	98.7	0.404		0.552
	DDD-p,p'	98.3	96.2	94.8	95.9	2.15		1.21
	DDE-p,p'	86.4	84.8	77.8	78.3	1.90		0.696
	DDT-p,p'	85.0	85.0	79.8	79.5	0.0102		0.286
	Delta-BHC	108	105	147	141	2.38		4.26
	Demeton	86.9	86.8	95.8	96.5	0.147		0.659

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision		
						LCS	SMP	MS
EPA 8270E	Diazinon	92.9	94.5	98.8	104	1.77		5.24
	Dicofol	114	120	104	99.0	5.04		5.02
	Dieldrin	96.8	95.3	96.0	97.8	1.54		1.94
	Dimethenamid	90.0	91.2	98.6	102	1.37		3.73
	Disulfoton	86.2	87.2	89.9	89.0	1.22		1.05
	Dithiopyr	92.3	90.8	93.8	97.5	1.66		3.61
	Endosulfan I	94.1	94.8	94.7	96.5	0.696		1.89
	Endosulfan II	110	107	113	118	3.05		4.34
	Endosulfan Sulfate	103	103	113	110	0.398		2.46
	Endrin	100	102	99.2	102	1.16		3.27
	Endrin Aldehyde	120	120	109	113	0.238		2.80
	Endrin Ketone	157	85.5	103	103	58.9		0.445
	EPTC	58.8	61.1	60.5	50.4	3.81		18.1
	Ethalfluralin	78.0	77.4	75.0	76.6	0.658		2.16
	Ethion	106	102	95.8	89.0	3.26		7.34
	Ethoprop	90.3	90.4	91.9	90.7	0.177		1.38
	Fenamiphos	94.6	100	108	75.9	5.95		35.0
	Fipronil	92.0	95.7	99.9	107	3.95		6.70
	Fipronil Desulfinyl	96.9	100	97.4	106	3.66		6.62
	Fipronil Sulfide	92.1	89.0	83.2	89.2	3.43		5.44
	Fipronil Sulfone	93.3	93.5	86.8	90.2	0.202		2.18
	Flumioxazin	134	131	185	198	2.32		6.60
	Fonofos	90.5	88.6	85.8	88.2	2.11		2.77
	Gamma-BHC	102	101	110	112	0.668		1.84
	Gamma-Chlordane	87.1	86.1	81.8	82.9	1.12		1.38
	Heptachlor	75.5	77.5	68.0	65.9	2.70		3.25
	Heptachlor Epoxide	92.7	93.2	93.4	93.4	0.551		0.0225
	Hexachlorobenzene	70.2	70.6	61.0	62.3	0.508		2.05
	Hexazinone	90.0	94.1	106	104	4.48		2.16
	Imazalil	105	93.9	66.1	74.5	10.8		12.1
	Lambda-Cyhalothrin	102	104	96.7	93.2	1.97		3.64
	Malathion	111	107	106	102	3.50		4.17
	Metalaxyl	89.8	94.6	90.0	94.6	5.23		4.98
	Methoxychlor	107	106	96.7	94.8	0.816		2.05
	Metolachlor	88.1	87.2	88.0	90.4	1.01		2.68
	Metribuzin	101	104	104	111	3.30		6.00
	Mevinphos	85.4	87.3	90.2	88.3	2.24		2.14
	Mirex	58.2	58.9	60.4	59.8	1.08		1.06
	Molinate	68.8	74.3	74.4	71.4	7.66		4.11
	Naled	69.3	74.6	80.4	84.7	7.30		5.23
	Norflurazon	89.7	96.5	87.1	92.0	7.23		5.47
	Oxadiazon	88.6	84.5	76.6	79.1	4.82		3.08
	Parathion Ethyl	92.0	86.3	94.7	92.2	6.34		2.67
	Parathion Methyl	100	101	105	104	0.313		1.47
	Pendimethalin	112	95.2	120	118	16.2		1.76
	Permethrin	79.5	80.8	73.2	70.9	1.65		3.20
	Phenothrin	46.3	47.0	55.6	54.0	1.57		3.02
	Phorate	92.3	90.9	84.0	86.0	1.42		2.36
	Prallethrin	72.8	64.7	76.6	78.2	11.8		2.01
	Prodiamine	79.1	74.1	110	112	6.53		2.61
	Prometon	82.5	86.0	86.6	91.6	4.19		5.62
	Prometryn	86.8	90.6	91.7	95.5	4.26		4.13
	Pronamide	94.2	103	111	121	8.52		8.99
	Propiconazole	84.0	85.2			1.31		8.26

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision		
						LCS	SMP	MS
EPA 8270E	Simazine	96.3	99.0			2.80		5.70
	Sulfentrazone	80.3	90.1	85.7	90.7	11.4		4.89
	Tebuconazole	47.6	52.0	50.7	49.6	8.79		1.53
	Terbufos	99.5	96.1	97.7	96.9	3.47		0.836
	Terbuthylazine	93.3	94.0	106	100	0.719		5.44
	Trans-Nonachlor	87.5	86.5	82.7	83.1	1.13		0.529
	Trifluralin	80.5	79.6	75.8	75.7	1.13		0.0860
EPA 8276	Chlordane	88.0	91.6	92.9	91.9	4.04		1.12
	Toxaphene	110	108	106	112	1.77		5.77
EPA 8321B	2,4-D	115						1.80
	3-Hydroxycarbofuran	75.3		56.6	56.8			0.394
	Acesulfame K	72.1		60.0	61.1			1.80
	Acetaminophen	79.1		93.3	85.9			8.22
	Acetamiprid	78.6		73.3	69.5			5.27
	Afidopyropen	65.2		63.4	57.7			9.29
	Aldicarb	78.1		59.7	49.0			19.8
	Aldicarb Sulfone	84.7		69.6	65.8			5.66
	Aldicarb Sulfoxide	81.4		36.2	35.1			3.06
	AMPA	86.1		60.8	51.5			4.59
	Bentazon	62.6						0.870
	Benzovindiflupyr	69.9		58.9	56.6			4.00
	Carbamazepine	66.9		50.1	50.3			0.389
	Carbaryl	49.1		40.5	36.3			10.8
	Carbofuran	53.9		45.5	41.1			10.2
	Clothianidin	76.8		76.7	74.8			2.55
	Dinotefuran	86.6		96.0	91.4			4.88
	Diuron	58.2		38.5	36.6			4.00
	Endothall	96.4		87.8	86.4			1.57
	Fenuron	101		82.7	80.5			2.69
	Fluridone	90.5		88.1	80.1			7.74
	Glufosinate	94.9		69.8	71.1			1.88
	Glyphosate	84.9		42.5	47.5			1.59
	Hydrocodone	82.3		71.3	66.3			7.24
	Ibuprofen	79.6		65.5	62.7			4.32
	Imazapyr	100						5.38
	Imidacloprid	97.6		127	127			0.128
	Linuron	67.0		50.4	52.2			3.57
	Mandestrobin	75.5		70.9	66.5			6.38
	MCPP	129		122	122			0.692
	Methiocarb	49.5		44.6	40.1			10.6
	Methomyl	84.2		68.1	67.1			1.46
	Naproxen	69.1		76.0	61.5			21.1
	Oxamyl	83.5		62.4	61.0			2.31
	Primidone	77.2		88.2	79.7			10.1
	Propoxur	55.5		42.8	39.9			7.08
	Pyraclostrobin	74.1		70.6	70.4			0.318
	Sucralose	92.1		107	112			4.01
	Thiamethoxam	93.7		101	103			1.10
	Tolfenpyrad	54.2		47.2	44.5			5.84
	Triclopyr	95.7		97.1	97.1			0.0086
SM 2120 B-2011	Color (true)	99.0					0.713	
	Color (true)	99.0					1.49	
SM 2320 B-2011	Total Alkalinity	99.2					1.20	
SM 2540 C-2011	TDS						1.82	

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
SM 4500 F-C-2011	Fluoride	98.9	103	100			1.87
	Fluoride	102	99.6	99.6			0.0
SM 5310 B-2011	Organic Carbon	98.7	99.4	99.8			0.296

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2183339, 2183340, 2183345, 2183346
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2183371, 2183372
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2183371, 2183372
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2183339, 2183340, 2183345, 2183346
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2183339, 2183340, 2183345, 2183346
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2183341, 2183342, 2183347, 2183348
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2183341, 2183342, 2183347, 2183348
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2183341, 2183342, 2183347, 2183348
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2183341, 2183342, 2183347, 2183348
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2183343, 2183344, 2183349, 2183350
EPA 8270E	Organochlorine pesticides in water matrices by GC/MS-SIM	2183367, 2183368
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2183369, 2183370
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2183367, 2183368
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2183363, 2183364
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2183365, 2183366
EPA 8321B	Water soluble organic compounds by HPLC/MS/MS	2183365, 2183366
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2183339, 2183340, 2183345, 2183346
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2183339, 2183340, 2183345, 2183346
SM 2340B	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2183371, 2183372
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2183339, 2183340, 2183345, 2183346
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2183339, 2183340, 2183345, 2183346
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2183339, 2183340, 2183345, 2183346
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2183341, 2183342, 2183347, 2183348

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	07/16/2020			07/16/2020 16:02	Samantha Davila	2183339, 2183340, 2183345, 2183346
EPA 200.7 Rev. 4.4	07/16/2020	07/20/2020 13:35	Elliott D. Healy	07/21/2020 15:45	Betina Topolski	2183371
	07/16/2020	07/20/2020 13:35	Elliott D. Healy	07/21/2020 15:53	Betina Topolski	2183372
EPA 200.8 Rev. 5.4	07/16/2020	07/20/2020 13:35	Elliott D. Healy	07/22/2020 14:37	Alexander Thompson	2183371
	07/16/2020	07/20/2020 13:35	Elliott D. Healy	07/22/2020 14:45	Alexander Thompson	2183372
EPA 300.0 Rev. 2.1	07/16/2020			07/22/2020 04:04	Julia Storbeck	2183339
	07/16/2020			07/22/2020 04:16	Julia Storbeck	2183340
	07/16/2020			07/22/2020 04:28	Julia Storbeck	2183345
	07/16/2020			07/22/2020 04:40	Julia Storbeck	2183346
EPA 350.1 Rev. 2.0	07/16/2020			07/18/2020 13:38	Ping Hua	2183341
	07/16/2020			07/18/2020 13:55	Ping Hua	2183342
	07/16/2020			07/18/2020 13:56	Ping Hua	2183347
	07/16/2020			07/18/2020 13:58	Ping Hua	2183348
EPA 351.2 Rev. 2.0	07/16/2020	07/22/2020 10:10	Jhamieka S. Greenwood	07/23/2020 13:26	Jhamieka S. Greenwood	2183341
	07/16/2020	07/22/2020 10:10	Jhamieka S. Greenwood	07/23/2020 13:34	Jhamieka S. Greenwood	2183342
	07/16/2020	07/22/2020 10:10	Jhamieka S. Greenwood	07/23/2020 13:36	Jhamieka S. Greenwood	2183347
	07/16/2020	07/22/2020 10:10	Jhamieka S. Greenwood	07/23/2020 13:37	Jhamieka S. Greenwood	2183348
EPA 353.2 Rev. 2.0	07/16/2020			07/21/2020 08:45	Beverly Y. Sanders	2183348
	07/16/2020			07/21/2020 08:51	Beverly Y. Sanders	2183341
	07/16/2020			07/21/2020 08:52	Beverly Y. Sanders	2183342
	07/16/2020			07/21/2020 08:54	Beverly Y. Sanders	2183347
EPA 365.1 Rev. 2.0	07/16/2020	07/20/2020 13:21	Yen Ta	07/21/2020 10:59	Lipi Saha	2183341
	07/16/2020	07/20/2020 13:21	Yen Ta	07/21/2020 11:00	Lipi Saha	2183342
	07/16/2020	07/20/2020 13:21	Yen Ta	07/21/2020 11:01	Lipi Saha	2183347
	07/16/2020	07/20/2020 13:21	Yen Ta	07/21/2020 11:02	Lipi Saha	2183348
EPA 365.1 Rev. 2.0 dissolved	07/16/2020			07/16/2020 16:28	Carlos Miranda	2183343
	07/16/2020			07/16/2020 16:29	Carlos Miranda	2183344
	07/16/2020			07/16/2020 16:30	Carlos Miranda	2183349
	07/16/2020			07/16/2020 16:31	Carlos Miranda	2183350
EPA 8270E	07/16/2020	07/17/2020 08:00	Fe-Val Siddell	07/21/2020 17:01	Vandana T. Nagar	2183369
	07/16/2020	07/17/2020 08:00	Fe-Val Siddell	07/21/2020 17:27	Vandana T. Nagar	2183370
	07/16/2020	07/17/2020 08:00	Fe-Val Siddell	07/23/2020 18:58	Vandana T. Nagar	2183369
	07/16/2020	07/17/2020 08:00	Fe-Val Siddell	07/23/2020 19:23	Vandana T. Nagar	2183370
	07/16/2020	07/17/2020 08:30	Rasheda Ghaffari	07/23/2020 19:44	Michael Poppell	2183367
	07/16/2020	07/17/2020 08:30	Rasheda Ghaffari	07/23/2020 20:15	Michael Poppell	2183368
	07/16/2020	07/17/2020 08:30	Rasheda Ghaffari	07/29/2020 02:25	Michael Poppell	2183368
EPA 8276	07/16/2020	07/17/2020 08:30	Rasheda Ghaffari	07/22/2020 08:04	Arthur Maknenko	2183367
	07/16/2020	07/17/2020 08:30	Rasheda Ghaffari	07/22/2020 09:00	Arthur Maknenko	2183368
EPA 8321B	07/16/2020	07/20/2020 08:45	Hoor Shaik	07/20/2020 22:49	Juyoung Kim	2183363
	07/16/2020	07/20/2020 08:45	Hoor Shaik	07/20/2020 23:23	Juyoung Kim	2183364

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	07/16/2020	07/20/2020 09:30	Rebecca Ware	07/20/2020 18:42	Rebecca Ware	2183365
	07/16/2020	07/20/2020 09:30	Rebecca Ware	07/20/2020 18:56	Rebecca Ware	2183366
	07/16/2020	07/20/2020 09:30	Rebecca Ware	07/21/2020 10:27	Rebecca Ware	2183365
	07/16/2020	07/20/2020 09:30	Rebecca Ware	07/21/2020 10:38	Rebecca Ware	2183366
	07/16/2020	07/20/2020 09:30	Rebecca Ware	07/29/2020 00:55	Mohammad Ghaffari	2183365
	07/16/2020	07/20/2020 09:30	Rebecca Ware	07/29/2020 01:18	Mohammad Ghaffari	2183366
	07/16/2020	07/21/2020 09:00	Hoor Shaik	07/21/2020 20:46	Juyoung Kim	2183365
	07/16/2020	07/21/2020 09:00	Hoor Shaik	07/21/2020 21:21	Juyoung Kim	2183366
	07/16/2020	07/21/2020 09:00	Hoor Shaik	07/22/2020 09:45	Juyoung Kim	2183366
SM 2120 B-2011	07/16/2020			07/16/2020 16:17	Madeline Gruver	2183339
	07/16/2020			07/16/2020 16:19	Madeline Gruver	2183345
	07/16/2020			07/16/2020 16:23	Madeline Gruver	2183346
	07/16/2020			07/16/2020 16:46	Madeline Gruver	2183340
SM 2320 B-2011	07/16/2020			07/18/2020 13:05	Samantha Davila	2183339
	07/16/2020			07/18/2020 14:19	Samantha Davila	2183340
	07/16/2020			07/18/2020 14:32	Samantha Davila	2183346
	07/16/2020			07/18/2020 14:46	Samantha Davila	2183345
SM 2340B	07/16/2020			07/21/2020 15:45	Betina Topolski	2183371
	07/16/2020			07/21/2020 15:53	Betina Topolski	2183372
SM 2540 C-2011	07/16/2020			07/17/2020 18:41	Madeline Gruver	2183339, 2183340, 2183345, 2183346
SM 2540 D-2011	07/16/2020			07/17/2020 19:29	Madeline Gruver	2183339, 2183340, 2183345, 2183346
SM 4500 F-C-2011	07/16/2020			07/18/2020 12:56	Samantha Davila	2183339
	07/16/2020			07/18/2020 14:19	Samantha Davila	2183340
	07/16/2020			07/18/2020 14:32	Samantha Davila	2183346
	07/16/2020			07/22/2020 01:08	Dale L. Simmons	2183345
SM 5310 B-2011	07/16/2020			07/17/2020 20:40	David Boose	2183341
	07/16/2020			07/17/2020 20:52	David Boose	2183342
	07/16/2020			07/17/2020 21:04	David Boose	2183347
	07/16/2020			07/17/2020 21:19	David Boose	2183348