Chemical Analysis Report

SO-DIST-2020-08-18-01

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

Event Description: **Desoto Combo**
Request ID: **RQ-2020-08-17-45**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
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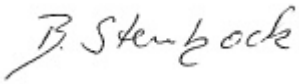
Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator Date Certified: 09-SEP-2020 17:48



Case Narrative

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

Results for the following analytical groups are included in this report: 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: Hog Bay @ Cr 763 **Collection Date/Time: 08/17/2020 12:25**

Field ID: G3SD0096 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2190814	EPA 180.1 Rev. 2.0	Turbidity	1.2		NTU	P386191	
	EPA 300.0 Rev. 2.1	Chloride	97		mg Cl/L	P386377	
		Sulfate	120		mg SO4/L	P386380	
	SM 2120 B-2011	Color (true)	94		PCU	P386199	
	SM 2320 B-2011	Total Alkalinity	110		mg CaCO3/L	P386324	
	SM 2540 C-2011	TDS	513		mg/L	P386504	
	SM 2540 D-2011	TSS	2	I	mg/L	P386391	
	SM 4500 F-C-2011	Fluoride	0.32		mg F/L	P386328	
2190815	EPA 350.1 Rev. 2.0	Ammonia-N	0.028		mg N/L	P386428	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P386317	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.29		mg N/L	P386303	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P386252	
	SM 5310 B-2011	Organic Carbon	17		mg C/L	P386333	
2190816	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.087		mg P/L	P386206	
2190862	EPA 8321B	2,4-D	0.0098		ug/L	P386256	
		Acesulfame K**	0.10	U	ug/L	P386214	
		AMPA**	1.2		ug/L	P386214	
		Sucralose**	0.12		ug/L	P386214	
		Acetaminophen**	0.0080	U	ug/L	P386256	
		Acetamiprid**	0.0020	U	ug/L	P386256	
		Endothall**	0.25	U	ug/L	P386214	
		Glufosinate**	0.10	U	ug/L	P386214	
		Glyphosate**	0.94		ug/L	P386214	
		Afidopyropen**	0.0020	U	ug/L	P386256	
		Bentazon	8.0E-04	U	ug/L	P386256	
		Benzovindiflupyr**	0.0020	U	ug/L	P386256	
		Carbamazepine**	9.2E-04	I	ug/L	P386256	
		Clothianidin**	0.24		ug/L	P386256	
		Dinotefuran**	0.0020	U	ug/L	P386256	
		Diuron	0.0028	I	ug/L	P386256	
		Fenuron	0.016	U	ug/L	P386256	
		Fluridone**	8.0E-04	U	ug/L	P386256	
		Imazapyr**	0.0047	I	ug/L	P386256	
		Hydrocodone**	0.0020	U	ug/L	P386256	
		Ibuprofen**	0.020	U	ug/L	P386256	
		Imidacloprid	3.1		ug/L	P386256	
		Linuron	0.0040	U	ug/L	P386256	
		Mandestrobin**	0.0020	U	ug/L	P386256	
		MCPP	0.0020	U	ug/L	P386256	
		Naproxen**	0.0080	U	ug/L	P386256	
		Primidone**	0.0040	U	ug/L	P386256	
		Pyraclostrobin**	0.0020	U	ug/L	P386256	
		Thiamethoxam**	0.66		ug/L	P386256	

Field ID: G3SD0096 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2190862	EPA 8321B	Tolfenpyrad**	0.0020	U	ug/L	P386256	
		Triclopyr**	0.0040	U	ug/L	P386256	
2190881	EPA 200.7 Rev. 4.4	Barium	42.3		ug/L	P386231	
		Calcium	78.2		mg/L	P386231	
		Iron	220		ug/L	P386231	
		Magnesium	20.2		mg/L	P386231	
		Potassium	12.8		mg/L	P386231	
		Sodium	51.8		mg/L	P386231	
		Zinc	5.0	U	ug/L	P386231	
	EPA 200.8 Rev. 5.4	Aluminum	54		ug/L	P386231	
		Antimony	1.09		ug/L	P386231	
		Arsenic	1.77		ug/L	P386231	
		Beryllium	0.013	I	ug/L	P386231	
		Boron**	94.0		ug/L	P386231	
		Cadmium	0.020	U	ug/L	P386231	
		Chromium	0.70	I	ug/L	P386231	
		Copper	0.87		ug/L	P386231	
		Lead	0.20	U	ug/L	P386231	
		Nickel	2.6		ug/L	P386231	
		Selenium	0.50	I	ug/L	P386231	
		Silver	0.010	U	ug/L	P386231	
		Thallium	0.10	U	ug/L	P386231	

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: Horse Creek **Collection Date/Time: 08/17/2020 10:45**

Field ID: G3SD0157 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2190808	EPA 180.1 Rev. 2.0	Turbidity	3.8		NTU	P386190	
	EPA 300.0 Rev. 2.1	Chloride	22		mg Cl/L	P386376	
		Sulfate	130		mg SO4/L	P386941	
	SM 2120 B-2011	Color (true)	220		PCU	P386199	
	SM 2320 B-2011	Total Alkalinity	44		mg CaCO3/L	P386324	
	SM 2540 C-2011	TDS	338		mg/L	P386504	
	SM 2540 D-2011	TSS	4	I	mg/L	P386391	
	SM 4500 F-C-2011	Fluoride	0.37		mg F/L	P386328	
2190810	EPA 350.1 Rev. 2.0	Ammonia-N	0.038		mg N/L	P386428	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P386317	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.45		mg N/L	P386303	
	EPA 365.1 Rev. 2.0	Total-P	0.53		mg P/L	P386249	
	SM 5310 B-2011	Organic Carbon	25		mg C/L	P386333	
2190812	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.46		mg P/L	P386206	
2190858	EPA 8321B	Aldicarb	0.020	U	ug/L	P386102	RPD
		Aldicarb Sulfone	0.0020	U	ug/L	P386102	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P386102	
		Carbaryl	0.0020	U	ug/L	P386102	
		Carbofuran	0.0020	U	ug/L	P386102	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P386102	
		Methiocarb	0.0020	U	ug/L	P386102	
		Methomyl	0.0020	U	ug/L	P386102	
		Oxamyl	0.0069	I	ug/L	P386102	
		Propoxur	0.0020	U	ug/L	P386102	
2190860		2,4-D	0.19		ug/L	P386256	
		Acesulfame K**	0.10	U	ug/L	P386214	
		AMPA**	0.35	I	ug/L	P386214	
		Sucralose**	0.010	U	ug/L	P386214	
		Acetaminophen**	0.0080	U	ug/L	P386256	
		Acetamiprid**	0.0020	U	ug/L	P386256	
		Endothall**	0.25	U	ug/L	P386214	
		Glufosinate**	0.10	U	ug/L	P386214	
		Glyphosate**	0.30	I	ug/L	P386214	
		Afidopyropen**	0.0020	U	ug/L	P386256	
		Bentazon	0.053		ug/L	P386256	
		Benzovindiflupyr**	0.0020	U	ug/L	P386256	
		Carbamazepine**	8.0E-04	U	ug/L	P386256	
		Clothianidin**	0.016		ug/L	P386256	
		Dinotefuran**	0.013		ug/L	P386256	
		Diuron	0.018		ug/L	P386256	
		Fenuron	0.016	U	ug/L	P386256	
		Fluridone**	8.0E-04	U	ug/L	P386256	
		Imazapyr**	0.010	I	ug/L	P386256	

Field ID: G3SD0157 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2190860	EPA 8321B	Hydrocodone**	0.0020	U	ug/L	P386256	
		Ibuprofen**	0.020	U	ug/L	P386256	
		Imidacloprid	0.080		ug/L	P386256	
		Linuron	0.0040	U	ug/L	P386256	
		Mandestrobin**	0.0020	U	ug/L	P386256	
		MCPP	0.0020	U	ug/L	P386256	
		Naproxen**	0.0080	U	ug/L	P386256	
		Primidone**	0.0040	U	ug/L	P386256	
		Pyraclostrobin**	0.0020	U	ug/L	P386256	
		Thiamethoxam**	0.035		ug/L	P386256	
		Tolfenpyrad**	0.0020	U	ug/L	P386256	
		Triclopyr**	0.0040	U	ug/L	P386256	
2190868	EPA 8270E	Aldrin	4.3	UJ	ng/L	P386044	RPD
		Alpha-BHC	2.2	U	ng/L	P386044	
		Alpha-Chlordane	1.1	U	ng/L	P386044	
		Beta-BHC	8.6	U	ng/L	P386044	
		Beta-Cyfluthrin**	16	U	ng/L	P386044	
		Bifenthrin**	4.3	U	ng/L	P386044	
		Delta-BHC	8.6	U	ng/L	P386044	
		Gamma-BHC	8.6	U	ng/L	P386044	
		Chlorothalonil	2.2	U	ng/L	P386044	
		Cis-Nonachlor**	1.1	U	ng/L	P386044	
		Cypermethrin	22	U	ng/L	P386044	
		Dacthal**	1.1	U	ng/L	P386044	
		DDD-p,p'	5.4	U	ng/L	P386044	
		DDE-p,p'	5.4	U	ng/L	P386044	
		DDT-p,p'	6.5	U	ng/L	P386044	
		Deltamethrin**	22	U	ng/L	P386044	
		Dicofol	32	U	ng/L	P386044	
		Dieldrin	4.3	U	ng/L	P386044	
		Endosulfan I	4.3	U	ng/L	P386044	
		Endosulfan II	4.3	U	ng/L	P386044	
		Endosulfan Sulfate	2.2	U	ng/L	P386044	
		Endrin	2.2	U	ng/L	P386044	
		Endrin Aldehyde	2.2	U	ng/L	P386044	
		Endrin Ketone	2.2	U	ng/L	P386044	
		Ethalfluralin**	3.2	U	ng/L	P386044	
		Gamma-Chlordane	1.1	U	ng/L	P386044	
		Heptachlor	1.6	U	ng/L	P386044	
		Heptachlor Epoxide	2.2	U	ng/L	P386044	
		Hexachlorobenzene	2.2	U	ng/L	P386044	
		Lambda-Cyhalothrin**	16	U	ng/L	P386044	
		Methoxychlor	4.3	U	ng/L	P386044	
		Mirex	2.2	U	ng/L	P386044	
		Permethrin	11	I	ng/L	P386044	

Field ID: G3SD0157 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2190868	EPA 8270E	Phenothrin**	32	U	ng/L	P386044	
		Prallethrin**	27	U	ng/L	P386044	
		Trans-Nonachlor**	1.1	U	ng/L	P386044	
		Trifluralin	2.7	U	ng/L	P386044	
	EPA 8276	Chlordane	13	I	ng/L	P386044	
		Toxaphene	32	U	ng/L	P386044	
2190870	EPA 8270E	Acetochlor	0.28	U	ng/L	P386437	
		Alachlor	0.28	U	ng/L	P386437	
		Ametryn	0.67	U	ng/L	P386437	
		Atrazine	1.4		ng/L	P386437	
		Atrazine Desethyl	4.1	I	ng/L	P386437	
		Azinphos Methyl	2.2	U	ng/L	P386437	
		Bromacil	170		ng/L	P386437	
		Butylate	0.44	U	ng/L	P386437	
		Carbophenothion	0.56	U	ng/L	P386437	
		Chlorpyrifos Ethyl	0.28	U	ng/L	P386437	
		Chlorpyrifos Methyl	0.056	U	ng/L	P386437	
		Cyanazine	3.6	U	ng/L	P386437	RPD
		Demeton	1.7	U	ng/L	P386437	
		Diazinon	0.14	U	ng/L	P386437	
		Dimethenamid**	0.11	U	ng/L	P386437	
		Disulfoton	0.56	U	ng/L	P386437	
		Dithiopyr**	0.16	I	ng/L	P386437	
		EPTC	1.4	U	ng/L	P386437	
		Ethion	0.17	U	ng/L	P386437	
		Ethoprop	0.11	U	ng/L	P386437	
		Fenamiphos	0.56	U	ng/L	P386437	
		Fipronil	0.28	U	ng/L	P386437	
		Fipronil Desulfinyl**	0.14	U	ng/L	P386437	
		Fipronil Sulfide	0.17	U	ng/L	P386437	
		Fipronil Sulfone	0.17	U	ng/L	P386437	
		Flumioxazin**	1.9	U	ng/L	P386437	MS
		Fonofos	0.22	U	ng/L	P386437	
		Hexazinone	160		ng/L	P386437	
		Imazalil**	0.83	U	ng/L	P386437	
		Malathion	0.39	U	ng/L	P386437	
		Metalaxyl	31		ng/L	P386437	
		Metolachlor	100		ng/L	P386437	
		Metribuzin	71		ng/L	P386437	
		Mevinphos	0.56	U	ng/L	P386437	
		Molinate	0.33	U	ng/L	P386437	
		Naled**	1.7	U	ng/L	P386437	
		Norflurazon	78		ng/L	P386437	
		Oxadiazon	1.1		ng/L	P386437	
		Parathion Ethyl	0.28	U	ng/L	P386437	

Field ID: G3SD0157 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2190870	EPA 8270E	Parathion Methyl	0.61	U	ng/L	P386437	
		Pendimethalin	1.1	U	ng/L	P386437	
		Phorate	0.28	U	ng/L	P386437	RPD
		Prodiamine**	0.19	U	ng/L	P386437	
		Prometon	1.0	U	ng/L	P386437	
		Prometryn	0.22	U	ng/L	P386437	
		Pronamide**	0.17	U	ng/L	P386437	
		Propiconazole**	0.56	U	ng/L	P386437	
		Simazine	4.7		ng/L	P386437	
		Sulfentrazone**	2.1	I	ng/L	P386437	
		Tebuconazole**	0.56	U	ng/L	P386437	
		Terbufos	0.11	U	ng/L	P386437	
		Terbuthylazine	0.47	U	ng/L	P386437	
2190879	EPA 200.7 Rev. 4.4	Barium	12.3		ug/L	P386231	
		Calcium	48.9		mg/L	P386231	
		Iron	550		ug/L	P386231	
		Magnesium	19.0		mg/L	P386231	
		Potassium	8.2		mg/L	P386231	
		Sodium	11.9		mg/L	P386231	
		Zinc	5.0	U	ug/L	P386231	
	EPA 200.8 Rev. 5.4	Aluminum	152		ug/L	P386231	
		Antimony	0.25		ug/L	P386231	
		Arsenic	1.05		ug/L	P386231	
		Beryllium	0.013	I	ug/L	P386231	
		Boron**	48.5		ug/L	P386231	
		Cadmium	0.054	I	ug/L	P386231	
		Chromium	0.65	I	ug/L	P386231	
		Copper	0.84		ug/L	P386231	
		Lead	0.20	U	ug/L	P386231	
		Nickel	0.89	I	ug/L	P386231	
		Selenium	0.21	I	ug/L	P386231	
		Silver	0.010	U	ug/L	P386231	
		Thallium	0.10	U	ug/L	P386231	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for norflurazon not assessed due to high content of this parameter in the sample spiked.

Sample Location: FB08172020 **Collection Date/Time: 08/17/2020 10:50**

Field ID: FB08172020 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2190817	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P386191	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P386377	
		Sulfate	0.20	U	mg SO4/L	P386380	
	SM 2120 B-2011	Color (true)	2.5	U	PCU	P386199	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P386324	
	SM 2540 C-2011	TDS	15	U	mg/L	P386502	
	SM 2540 D-2011	TSS	2	U	mg/L	P386389	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P386328	
2190818	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P386428	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P386316	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P386303	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P386252	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P386333	
2190819	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P386203	
2190863	EPA 8321B	Aldicarb	0.020	U	ug/L	P386102	RPD
		Aldicarb Sulfone	0.0020	U	ug/L	P386102	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P386102	
		Carbaryl	0.0020	U	ug/L	P386102	
		Carbofuran	0.0020	U	ug/L	P386102	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P386102	
		Methiocarb	0.0020	U	ug/L	P386102	
		Methomyl	0.0020	U	ug/L	P386102	
		Oxamyl	0.0020	U	ug/L	P386102	
		Propoxur	0.0020	U	ug/L	P386102	
2190864		2,4-D	0.0020	U	ug/L	P386256	
		Acesulfame K**	0.10	U	ug/L	P386214	
		AMPA**	0.10	U	ug/L	P386214	
		Sucralose**	0.010	U	ug/L	P386214	
		Acetaminophen**	0.0080	U	ug/L	P386256	
		Acetamiprid**	0.0020	U	ug/L	P386256	
		Endothall**	0.25	U	ug/L	P386214	
		Glufosinate**	0.10	U	ug/L	P386214	
		Glyphosate**	0.10	U	ug/L	P386214	
		Afidopyropen**	0.0020	U	ug/L	P386256	
		Bentazon	8.0E-04	U	ug/L	P386256	
		Benzovindiflupyr**	0.0020	U	ug/L	P386256	
		Carbamazepine**	8.0E-04	U	ug/L	P386256	
		Clothianidin**	0.0020	U	ug/L	P386256	
		Dinotefuran**	0.0020	U	ug/L	P386256	
		Diuron	0.0020	U	ug/L	P386256	
		Fenuron	0.016	U	ug/L	P386256	
		Fluridone**	8.0E-04	U	ug/L	P386256	
		Imazapyr**	0.0040	U	ug/L	P386256	

Field ID: FB08172020 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2190864	EPA 8321B	Hydrocodone**	0.0020	U	ug/L	P386256	
		Ibuprofen**	0.020	U	ug/L	P386256	
		Imidacloprid	0.0020	U	ug/L	P386256	
		Linuron	0.0040	U	ug/L	P386256	
		Mandestrobin**	0.0020	U	ug/L	P386256	
		MCPP	0.0020	U	ug/L	P386256	
		Naproxen**	0.0080	U	ug/L	P386256	
		Primidone**	0.0040	U	ug/L	P386256	
		Pyraclostrobin**	0.0020	U	ug/L	P386256	
		Thiamethoxam**	0.0020	U	ug/L	P386256	
		Tolfenpyrad**	0.0020	U	ug/L	P386256	
		Triclopyr**	0.0040	U	ug/L	P386256	
2190872	EPA 8270E	Aldrin	4.4	UJ	ng/L	P386044	RPD
		Alpha-BHC	2.2	U	ng/L	P386044	
		Alpha-Chlordane	1.1	U	ng/L	P386044	
		Beta-BHC	8.7	U	ng/L	P386044	
		Beta-Cyfluthrin**	16	U	ng/L	P386044	
		Bifenthrin**	4.4	U	ng/L	P386044	
		Delta-BHC	8.7	U	ng/L	P386044	
		Gamma-BHC	8.7	U	ng/L	P386044	
		Chlorothalonil	2.2	U	ng/L	P386044	
		Cis-Nonachlor**	1.1	U	ng/L	P386044	
		Cypermethrin	22	U	ng/L	P386044	
		Dacthal**	1.1	U	ng/L	P386044	
		DDD-p,p'	5.4	U	ng/L	P386044	
		DDE-p,p'	5.4	U	ng/L	P386044	
		DDT-p,p'	6.5	U	ng/L	P386044	
		Deltamethrin**	22	U	ng/L	P386044	
		Dicofol	33	U	ng/L	P386044	
		Dieldrin	4.4	U	ng/L	P386044	
		Endosulfan I	4.4	U	ng/L	P386044	
		Endosulfan II	4.4	U	ng/L	P386044	
		Endosulfan Sulfate	2.2	U	ng/L	P386044	
		Endrin	2.2	U	ng/L	P386044	
		Endrin Aldehyde	2.2	U	ng/L	P386044	
		Endrin Ketone	2.2	U	ng/L	P386044	
		Ethalfluralin**	3.3	U	ng/L	P386044	
		Gamma-Chlordane	1.1	U	ng/L	P386044	
		Heptachlor	1.6	U	ng/L	P386044	
		Heptachlor Epoxide	2.2	U	ng/L	P386044	
		Hexachlorobenzene	2.2	U	ng/L	P386044	
		Lambda-Cyhalothrin**	16	U	ng/L	P386044	
		Methoxychlor	4.4	U	ng/L	P386044	
		Mirex	2.2	U	ng/L	P386044	
		Permethrin	11	U	ng/L	P386044	

Field ID: FB08172020 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2190872	EPA 8270E	Phenothrin**	33	U	ng/L	P386044	
		Prallethrin**	27	U	ng/L	P386044	
		Trans-Nonachlor**	1.1	U	ng/L	P386044	
		Trifluralin	2.7	U	ng/L	P386044	
	EPA 8276	Chlordane	5.4	U	ng/L	P386044	
		Toxaphene	33	U	ng/L	P386044	
2190873	EPA 8270E	Acetochlor	0.25	U	ng/L	P386437	
		Alachlor	0.25	U	ng/L	P386437	
		Ametryn	0.60	U	ng/L	P386437	
		Atrazine	0.25	U	ng/L	P386437	
		Atrazine Desethyl	1.5	U	ng/L	P386437	
		Azinphos Methyl	2.0	U	ng/L	P386437	
		Bromacil	0.50	U	ng/L	P386437	
		Butylate	0.40	U	ng/L	P386437	
		Carbophenothion	0.50	U	ng/L	P386437	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P386437	
		Chlorpyrifos Methyl	0.050	U	ng/L	P386437	
		Cyanazine	3.2	U	ng/L	P386437	RPD
		Demeton	1.5	U	ng/L	P386437	
		Diazinon	0.12	U	ng/L	P386437	
		Dimethenamid**	0.099	U	ng/L	P386437	
		Disulfoton	0.50	U	ng/L	P386437	
		Dithiopyr**	0.099	U	ng/L	P386437	
		EPTC	1.2	U	ng/L	P386437	
		Ethion	0.15	U	ng/L	P386437	
		Ethoprop	0.099	U	ng/L	P386437	
		Fenamiphos	0.50	U	ng/L	P386437	
		Fipronil	0.25	U	ng/L	P386437	
		Fipronil Desulfinyl**	0.12	U	ng/L	P386437	
		Fipronil Sulfide	0.15	U	ng/L	P386437	
		Fipronil Sulfone	0.15	U	ng/L	P386437	
		Flumioxazin**	1.7	U	ng/L	P386437	MS
		Fonofos	0.20	U	ng/L	P386437	
		Hexazinone	0.50	U	ng/L	P386437	
		Imazalil**	0.75	U	ng/L	P386437	
		Malathion	0.35	U	ng/L	P386437	
		Metalaxyl	0.75	U	ng/L	P386437	
		Metolachlor	0.50	U	ng/L	P386437	
		Metribuzin	3.2	U	ng/L	P386437	
		Mevinphos	0.50	U	ng/L	P386437	
		Molinate	0.30	U	ng/L	P386437	
		Naled**	1.5	U	ng/L	P386437	
		Norflurazon	0.50	U	ng/L	P386437	
		Oxadiazon	0.099	U	ng/L	P386437	
		Parathion Ethyl	0.25	U	ng/L	P386437	

Field ID: FB08172020 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2190873	EPA 8270E	Parathion Methyl	0.55	U	ng/L	P386437	
		Pendimethalin	0.99	U	ng/L	P386437	
		Phorate	0.25	U	ng/L	P386437	RPD
		Prodiamine**	0.17	U	ng/L	P386437	
		Prometon	0.89	U	ng/L	P386437	
		Prometryn	0.20	U	ng/L	P386437	
		Pronamide**	0.15	U	ng/L	P386437	
		Propiconazole**	0.50	U	ng/L	P386437	
		Simazine	0.50	U	ng/L	P386437	
		Sulfentrazone**	0.50	U	ng/L	P386437	
		Tebuconazole**	0.50	U	ng/L	P386437	
		Terbufos	0.099	U	ng/L	P386437	
		Terbuthylazine	0.42	U	ng/L	P386437	
2190882	EPA 200.7 Rev. 4.4	Barium	1.0	U	ug/L	P386231	
		Calcium	0.075	U	mg/L	P386231	
		Iron	30	U	ug/L	P386231	
		Magnesium	0.040	U	mg/L	P386231	
		Potassium	0.30	U	mg/L	P386231	
		Sodium	0.50	U	mg/L	P386231	
		Zinc	5.0	U	ug/L	P386231	
	EPA 200.8 Rev. 5.4	Aluminum	5.0	U	ug/L	P386231	
		Antimony	0.050	U	ug/L	P386231	
		Arsenic	0.050	U	ug/L	P386231	
		Beryllium	0.010	U	ug/L	P386231	
		Boron**	7.2	I	ug/L	P386231	
		Cadmium	0.020	U	ug/L	P386231	
		Chromium	0.40	U	ug/L	P386231	
		Copper	0.40	U	ug/L	P386231	
		Lead	0.20	U	ug/L	P386231	
		Nickel	0.50	U	ug/L	P386231	
		Selenium	0.20	U	ug/L	P386231	
		Silver	0.010	U	ug/L	P386231	
		Thallium	0.10	U	ug/L	P386231	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for norflurazon not assessed due to high content of this parameter in the sample spiked.
EPA 200.8 Rev. 5.4: The boron result was confirmed in the undigested sample on 08/21/2020.

Sample Location: Joshua Creek above Peace River **Collection Date/Time: 08/17/2020 11:40**

Field ID: G3SD0159 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2190809	EPA 180.1 Rev. 2.0	Turbidity	3.9		NTU	P386190	
	EPA 300.0 Rev. 2.1	Chloride	120		mg Cl/L	P386377	
		Sulfate	120		mg SO4/L	P386380	
	SM 2120 B-2011	Color (true)	220		PCU	P386199	
	SM 2320 B-2011	Total Alkalinity	87		mg CaCO3/L	P386324	
	SM 2540 C-2011	TDS	576	A	mg/L	P386504	
	SM 2540 D-2011	TSS	5	I A	mg/L	P386391	
	SM 4500 F-C-2011	Fluoride	0.41		mg F/L	P386328	
2190811	EPA 350.1 Rev. 2.0	Ammonia-N	0.049		mg N/L	P386428	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.7		mg N/L	P386317	
	EPA 353.2 Rev. 2.0	NO2NO3-N	1.0		mg N/L	P386303	
	EPA 365.1 Rev. 2.0	Total-P	0.55		mg P/L	P386249	
	SM 5310 B-2011	Organic Carbon	25		mg C/L	P386333	
2190813	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.46		mg P/L	P386206	
2190859	EPA 8321B	Aldicarb	0.020	U	ug/L	P386102	RPD
		Aldicarb Sulfone	0.0020	U	ug/L	P386102	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P386102	
		Carbaryl	0.0020	U	ug/L	P386102	
		Carbofuran	0.0020	U	ug/L	P386102	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P386102	
		Methiocarb	0.0020	U	ug/L	P386102	
		Methomyl	0.0020	U	ug/L	P386102	
		Oxamyl	0.0020	U	ug/L	P386102	
		Propoxur	0.0020	U	ug/L	P386102	
2190861		2,4-D	0.095		ug/L	P386256	
		Acesulfame K**	0.10	U	ug/L	P386214	
		AMPA**	4.3		ug/L	P386214	
		Sucralose**	0.010	U	ug/L	P386214	
		Acetaminophen**	0.0080	U	ug/L	P386256	
		Acetamiprid**	0.0020	U	ug/L	P386256	
		Endothall**	0.25	U	ug/L	P386214	
		Glufosinate**	0.10	U	ug/L	P386214	
		Glyphosate**	4.4		ug/L	P386214	
		Afidopyropen**	0.0020	U	ug/L	P386256	
		Bentazon	0.0035		ug/L	P386256	
		Benzovindiflupyr**	0.0020	U	ug/L	P386256	
		Carbamazepine**	8.0E-04	U	ug/L	P386256	
		Clothianidin**	0.39		ug/L	P386256	
		Dinotefuran**	0.0020	U	ug/L	P386256	
		Diuron	0.016		ug/L	P386256	
		Fenuron	0.017	I	ug/L	P386256	
		Fluridone**	8.0E-04	U	ug/L	P386256	
		Imazapyr**	0.0071	I	ug/L	P386256	

Field ID: G3SD0159 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2190861	EPA 8321B	Hydrocodone**	0.0020	U	ug/L	P386256	
		Ibuprofen**	0.020	U	ug/L	P386256	
		Imidacloprid	2.2		ug/L	P386256	
		Linuron	0.0040	U	ug/L	P386256	
		Mandestrobin**	0.0020	U	ug/L	P386256	
		MCPP	0.0020	U	ug/L	P386256	
		Naproxen**	0.0080	U	ug/L	P386256	
		Primidone**	0.0040	U	ug/L	P386256	
		Pyraclostrobin**	0.0020	U	ug/L	P386256	
		Thiamethoxam**	2.7		ug/L	P386256	
		Tolfenpyrad**	0.0020	U	ug/L	P386256	
		Triclopyr**	0.0040	U	ug/L	P386256	
2190869	EPA 8270E	Aldrin	4.2	UJ	ng/L	P386044	RPD
		Alpha-BHC	2.1	U	ng/L	P386044	
		Alpha-Chlordane	1.1	U	ng/L	P386044	
		Beta-BHC	8.5	U	ng/L	P386044	
		Beta-Cyfluthrin**	16	U	ng/L	P386044	
		Bifenthrin**	4.2	U	ng/L	P386044	
		Delta-BHC	8.5	U	ng/L	P386044	
		Gamma-BHC	8.5	U	ng/L	P386044	
		Chlorothalonil	2.1	U	ng/L	P386044	
		Cis-Nonachlor**	1.1	U	ng/L	P386044	
		Cypermethrin	21	U	ng/L	P386044	
		Dacthal**	1.1	U	ng/L	P386044	
		DDD-p,p'	5.3	U	ng/L	P386044	
		DDE-p,p'	5.3	U	ng/L	P386044	
		DDT-p,p'	6.4	U	ng/L	P386044	
		Deltamethrin**	21	U	ng/L	P386044	
		Dicofol	32	U	ng/L	P386044	
		Dieldrin	4.2	U	ng/L	P386044	
		Endosulfan I	4.2	U	ng/L	P386044	
		Endosulfan II	4.2	U	ng/L	P386044	
		Endosulfan Sulfate	2.1	U	ng/L	P386044	
		Endrin	2.1	U	ng/L	P386044	
		Endrin Aldehyde	2.1	U	ng/L	P386044	
		Endrin Ketone	2.1	U	ng/L	P386044	
		Ethalfluralin**	3.2	U	ng/L	P386044	
		Gamma-Chlordane	1.1	U	ng/L	P386044	
		Heptachlor	1.6	U	ng/L	P386044	
		Heptachlor Epoxide	2.1	U	ng/L	P386044	
		Hexachlorobenzene	2.1	U	ng/L	P386044	
		Lambda-Cyhalothrin**	16	U	ng/L	P386044	
		Methoxychlor	4.2	U	ng/L	P386044	
		Mirex	2.1	U	ng/L	P386044	
		Permethrin	17	I	ng/L	P386044	

Field ID: G3SD0159 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2190869	EPA 8270E	Phenothrin**	32	U	ng/L	P386044	
		Prallethrin**	27	U	ng/L	P386044	
		Trans-Nonachlor**	1.1	U	ng/L	P386044	
		Trifluralin	2.7	U	ng/L	P386044	
	EPA 8276	Chlordane	5.3	U	ng/L	P386044	
		Toxaphene	32	U	ng/L	P386044	
2190871	EPA 8270E	Acetochlor	0.24	U	ng/L	P386437	
		Alachlor	0.24	U	ng/L	P386437	
		Ametryn	0.58	U	ng/L	P386437	
		Atrazine	22		ng/L	P386437	
		Atrazine Desethyl	2.9	I	ng/L	P386437	
		Azinphos Methyl	1.9	U	ng/L	P386437	
		Bromacil	540		ng/L	P386437	
		Butylate	0.39	U	ng/L	P386437	
		Carbophenothion	0.48	U	ng/L	P386437	
		Chlorpyrifos Ethyl	1.4		ng/L	P386437	
		Chlorpyrifos Methyl	0.048	U	ng/L	P386437	
		Cyanazine	3.1	U	ng/L	P386437	RPD
		Demeton	1.5	U	ng/L	P386437	
		Diazinon	0.12	U	ng/L	P386437	
		Dimethenamid**	0.097	U	ng/L	P386437	
		Disulfoton	0.48	U	ng/L	P386437	
		Dithiopyr**	0.15	I	ng/L	P386437	
		EPTC	1.2	U	ng/L	P386437	
		Ethion	0.15	U	ng/L	P386437	
		Ethoprop	0.097	U	ng/L	P386437	
		Fenamiphos	0.48	U	ng/L	P386437	
		Fipronil	0.24	U	ng/L	P386437	
		Fipronil Desulfinyl**	0.12	U	ng/L	P386437	
		Fipronil Sulfide	0.15	U	ng/L	P386437	
		Fipronil Sulfone	0.15	U	ng/L	P386437	
		Flumioxazin**	2.2	I	ng/L	P386437	MS
		Fonofos	0.19	U	ng/L	P386437	
		Hexazinone	370		ng/L	P386437	
		Imazalil**	0.73	U	ng/L	P386437	
		Malathion	0.34	U	ng/L	P386437	
		Metalaxyl	86		ng/L	P386437	
		Metolachlor	0.88	I	ng/L	P386437	
		Metribuzin	3.1	U	ng/L	P386437	
		Mevinphos	0.48	U	ng/L	P386437	
		Molinate	0.29	U	ng/L	P386437	
		Naled**	1.5	U	ng/L	P386437	
		Norflurazon	820		ng/L	P386437	
		Oxadiazon	0.12	I	ng/L	P386437	
		Parathion Ethyl	0.24	U	ng/L	P386437	

Field ID: G3SD0159 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2190871	EPA 8270E	Parathion Methyl	0.53	U	ng/L	P386437	
		Pendimethalin	0.97	U	ng/L	P386437	
		Phorate	0.24	U	ng/L	P386437	RPD
		Prodiamine**	0.17	U	ng/L	P386437	
		Prometon	0.87	U	ng/L	P386437	
		Prometryn	0.19	U	ng/L	P386437	
		Pronamide**	0.15	U	ng/L	P386437	
		Propiconazole**	0.48	U	ng/L	P386437	
		Simazine	240		ng/L	P386437	
		Sulfentrazone**	2.4		ng/L	P386437	
		Tebuconazole**	0.48	U	ng/L	P386437	
		Terbufos	0.097	U	ng/L	P386437	
		Terbuthylazine	0.41	U	ng/L	P386437	
2190880	EPA 200.7 Rev. 4.4	Barium	31.5		ug/L	P386231	
		Calcium	75.3		mg/L	P386231	
		Iron	740		ug/L	P386231	
		Magnesium	24.2		mg/L	P386231	
		Potassium	14.1		mg/L	P386231	
		Sodium	52.4		mg/L	P386231	
		Zinc	7.3	I	ug/L	P386231	
	EPA 200.8 Rev. 5.4	Aluminum	196		ug/L	P386231	
		Antimony	0.36		ug/L	P386231	
		Arsenic	2.62		ug/L	P386231	
		Beryllium	0.017	I	ug/L	P386231	
		Boron**	81.1		ug/L	P386231	
		Cadmium	0.089		ug/L	P386231	
		Chromium	0.90	I	ug/L	P386231	
		Copper	3.59		ug/L	P386231	
		Lead	0.23	I	ug/L	P386231	
		Nickel	1.6	I	ug/L	P386231	
		Selenium	0.30	I	ug/L	P386231	
		Silver	0.010	U	ug/L	P386231	
		Thallium	0.10	U	ug/L	P386231	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for norflurazon not assessed due to high content of this parameter in the sample spiked.

Quality Assurance Report
Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P386190

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P386191

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P386231

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: P386231

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
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: P386376

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P386377

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P386380

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P386941

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P386428

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P386316

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P386317

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P386303

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P386249

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P386252

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P386203

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P386206

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

Reference Method: EPA 8270E
Batch ID: P386044

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
Deltamethrin	20	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
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 8270E
Batch ID: P386437

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P386437

Component	Result	Code	Units
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
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8276
Batch ID: P386044

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

Reference Method: EPA 8321B
Batch ID: P386102

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: P386214

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: P386256

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
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P386256

Component	Result	Code	Units
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: SM 2120 B-2011
Batch ID: P386199

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P386324

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

Reference Method: SM 2540 C-2011
Batch ID: P386502

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2011
Batch ID: P386504

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P386389

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P386391

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P386328

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 5310 B-2011
Batch ID: P386333

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: P386231

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	104		P	85 - 115
Calcium	109		P	85 - 115
Iron	107		P	85 - 115
Magnesium	108		P	85 - 115
Potassium	104		P	85 - 115
Sodium	105		P	85 - 115
Zinc	105		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P386231

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	105		P	85 - 115
Antimony	107		P	85 - 115
Arsenic	103		P	85 - 115
Beryllium	107		P	85 - 115
Boron	107		P	85 - 115
Cadmium	105		P	85 - 115
Chromium	104		P	85 - 115
Copper	100		P	85 - 115
Lead	108		P	85 - 115
Nickel	101		P	85 - 115
Selenium	102		P	85 - 115
Silver	106		P	85 - 115
Thallium	105		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P386376

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	97.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P386377

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P386380

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: P386941

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P386428

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P386316

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P386317

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P386303

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P386249

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P386252

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P386203

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P386206

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.9		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P386044

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	58.8	40.1	P/P	20 - 87.0
Alpha-BHC	87.8	82.2	P/P	65 - 142
Alpha-Chlordane	88.6	81.4	P/P	58 - 106
Beta-BHC	107	109	P/P	65 - 179

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P386044

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Beta-Cyfluthrin	94.7	91.4	P/P	39 - 153
Bifenthrin	92.7	81.9	P/P	38 - 128
Chlorothalonil	73.6	75.6	P/P	20 - 214
Cis-Nonachlor	92.7	83.0	P/P	56 - 113
Cypermethrin	106	86.3	P/P	37 - 130
Dacthal	97.7	92.3	P/P	75 - 109
DDD-p,p'	99.9	91.5	P/P	66 - 119
DDE-p,p'	92.8	83.1	P/P	53 - 108
DDT-p,p'	100	92.2	P/P	57 - 133
Delta-BHC	158	151	P/P	68 - 187
Deltamethrin	110	112	P/P	50 - 200
Dicofol	114	104	P/P	66 - 123
Dieldrin	95.6	86.9	P/P	65 - 111
Endosulfan I	94.5	88.6	P/P	65 - 115
Endosulfan II	110	99.1	P/P	68 - 133
Endosulfan Sulfate	97.8	92.7	P/P	62 - 127
Endrin	93.2	83.6	P/P	64 - 122
Endrin Aldehyde	80.4	67.1	P/P	61 - 132
Endrin Ketone	115	104	P/P	66 - 120
Ethalfluralin	81.0	74.6	P/P	57 - 127
Gamma-BHC	100	94.4	P/P	71 - 158
Gamma-Chlordane	87.4	78.9	P/P	53 - 106
Heptachlor	78.1	68.0	P/P	45 - 96.0
Heptachlor Epoxide	89.4	83.5	P/P	64 - 109
Hexachlorobenzene	77.0	68.0	P/P	46 - 103
Lambda-Cyhalothrin	104	92.2	P/P	38 - 145
Methoxychlor	111	102	P/P	69 - 149
Mirex	81.5	73.8	P/P	31 - 90.0
Permethrin	90.9	84.5	P/P	41 - 108
Phenothrin	75.0	56.6	P/P	22 - 91.0
Prallethrin	65.3	55.4	P/P	32 - 92.0
Trans-Nonachlor	76.8	74.9	P/P	50 - 107
Trifluralin	81.2	77.2	P/P	58 - 119

Reference Method: EPA 8270E
Batch ID: P386437

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	86.6	97.2	P/P	71 - 122
Alachlor	87.9	98.1	P/P	70 - 121
Ametryn	86.2	95.9	P/P	49 - 137
Atrazine	89.4	102	P/P	76 - 125
Atrazine Desethyl	70.6	85.8	P/P	31 - 144
Azinphos Methyl	99.7	122	P/P	67 - 150
Bromacil	87.8	91.0	P/P	36 - 121
Butylate	56.7	65.7	P/P	33 - 88.0
Carbophenothion	88.5	97.2	P/P	50 - 150
Chlorpyrifos Ethyl	87.5	96.9	P/P	73 - 117
Chlorpyrifos Methyl	89.3	104	P/P	68 - 121
Cyanazine	119	133	P/P	20 - 250
Demeton	78.3	90.8	P/P	30 - 123
Diazinon	84.7	95.7	P/P	70 - 128

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P386437

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dimethenamid	86.0	94.5	P/P	66 - 122
Disulfoton	77.1	96.4	P/P	46 - 124
Dithiopyr	85.7	91.5	P/P	69 - 122
EPTC	56.9	64.3	P/P	31 - 90.0
Ethion	81.5	88.4	P/P	45 - 135
Ethoprop	78.8	91.1	P/P	59 - 118
Fenamiphos	88.9	94.3	P/P	30 - 136
Fipronil	90.3	101	P/P	57 - 127
Fipronil Desulfinyl	90.0	99.1	P/P	51 - 122
Fipronil Sulfide	85.3	95.6	P/P	57 - 119
Fipronil Sulfone	97.4	105	P/P	51 - 119
Flumioxazin	177	194	P/P	70 - 200
Fonofos	81.1	88.3	P/P	60 - 120
Hexazinone	93.2	98.2	P/P	57 - 142
Imazalil	84.2	95.9	P/P	50 - 150
Malathion	94.6	110	P/P	67 - 128
Metalaxyl	89.7	98.5	P/P	21 - 148
Metolachlor	88.6	97.0	P/P	70 - 120
Metribuzin	94.2	106	P/P	20 - 253
Mevinphos	71.9	83.4	P/P	47 - 116
Molinate	68.5	76.3	P/P	41 - 99.0
Naled	69.8	71.3	P/P	40 - 130
Norflurazon	86.1	93.5	P/P	54 - 127
Oxadiazon	83.2	89.2	P/P	65 - 122
Parathion Ethyl	77.9	96.4	P/P	71 - 113
Parathion Methyl	86.8	98.6	P/P	73 - 129
Pendimethalin	83.9	94.8	P/P	63 - 130
Phorate	70.7	79.2	P/P	48 - 118
Prodiamine	55.1	56.8	P/P	20 - 144
Prometon	87.0	96.8	P/P	53 - 120
Prometryn	91.0	99.6	P/P	63 - 119
Pronamide	93.2	100	P/P	50 - 150
Propiconazole	84.4	91.6	P/P	50 - 150
Simazine	81.7	95.5	P/P	77 - 129
Sulfentrazone	86.8	92.9	P/P	50 - 150
Tebuconazole	61.2	62.6	P/P	20 - 118
Terbufos	82.8	97.2	P/P	61 - 119
Terbuthylazine	91.4	101	P/P	75 - 119

Reference Method: EPA 8276
Batch ID: P386044

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	104	105	P/P	47 - 119
Toxaphene	99.6	95.5	P/P	41 - 112

Reference Method: EPA 8321B
Batch ID: P386102

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	75.3		P	30 - 160
Aldicarb	59.1		P	30 - 160

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P386102

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldicarb Sulfone	82.3		P	30 - 160
Aldicarb Sulfoxide	88.6		P	30 - 160
Carbaryl	45.7		P	30 - 160
Carbofuran	46.1		P	30 - 160
Methiocarb	56.3		P	30 - 160
Methomyl	87.1		P	30 - 160
Oxamyl	88.6		P	30 - 160
Propoxur	48.9		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P386214

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	63.0		P	40 - 150
AMPA	94.4		P	40 - 150
Endothall	99.5		P	40 - 150
Glufosinate	95.9		P	40 - 150
Glyphosate	79.2		P	40 - 140
Sucralose	93.9		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P386256

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	115		P	30 - 160
Acetaminophen	82.2		P	30 - 160
Acetamiprid	71.7		P	30 - 160
Afidopyropen	58.2		P	30 - 160
Bentazon	61.8		P	30 - 160
Benzovindiflupyr	67.6		P	30 - 160
Carbamazepine	64.2		P	30 - 160
Clothianidin	88.3		P	30 - 160
Dinotefuran	94.8		P	30 - 160
Diuron	54.8		P	30 - 160
Fenuron	89.4		P	30 - 160
Fluridone	73.6		P	30 - 160
Hydrocodone	83.2		P	30 - 160
Ibuprofen	75.1		P	30 - 160
Imazapyr	70.3		P	30 - 160
Imidacloprid	101		P	30 - 160
Linuron	62.7		P	30 - 160
Mandestrobin	78.2		P	30 - 160
MCPP	123		P	30 - 160
Naproxen	62.8		P	30 - 160
Primidone	83.1		P	30 - 160
Pyraclostrobin	66.4		P	30 - 160
Thiamethoxam	86.9		P	30 - 160
Tolfenpyrad	43.2		P	30 - 160
Triclopyr	107		P	30 - 160

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2120 B-2011
Batch ID: P386199

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

Reference Method: SM 2320 B-2011
Batch ID: P386324

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.9		P	93 - 104

Reference Method: SM 4500 F-C-2011
Batch ID: P386328

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	90 - 106

Reference Method: SM 5310 B-2011
Batch ID: P386333

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

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P386231

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2190501	Barium	104		P	80 - 120
2190501	Calcium	105		P	80 - 120
2190501	Iron	107		P	80 - 120
2190501	Magnesium	106		P	80 - 120
2190501	Potassium	103		P	80 - 120
2190501	Sodium	105		P	80 - 120
2190501	Zinc	104		P	80 - 120
2190729	Barium	105	103	P/P	80 - 120
2190729	Calcium	111	108	P/P	80 - 120
2190729	Iron	108	105	P/P	80 - 120
2190729	Magnesium	109	105	P/P	80 - 120
2190729	Potassium	111	107	P/P	80 - 120
2190729	Sodium	105	101	P/P	80 - 120
2190729	Zinc	107	105	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P386231

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2190501	Aluminum	105		P	80 - 120
2190501	Antimony	108		P	80 - 120
2190501	Arsenic	102		P	80 - 120
2190501	Beryllium	102		P	80 - 120
2190501	Boron	107		P	80 - 120
2190501	Cadmium	106		P	80 - 120
2190501	Chromium	107		P	80 - 120
2190501	Copper	104		P	80 - 120
2190501	Lead	110		P	80 - 120
2190501	Nickel	102		P	80 - 120
2190501	Selenium	100		P	80 - 120
2190501	Silver	108		P	80 - 120
2190501	Thallium	106		P	80 - 120
2190729	Aluminum	104	104	P/P	80 - 120
2190729	Antimony	107	105	P/P	80 - 120
2190729	Arsenic	104	103	P/P	80 - 120
2190729	Beryllium	110	109	P/P	80 - 120
2190729	Boron	104	103	P/P	80 - 120
2190729	Cadmium	104	104	P/P	80 - 120
2190729	Chromium	104	104	P/P	80 - 120
2190729	Copper	104	102	P/P	80 - 120
2190729	Lead	108	108	P/P	80 - 120
2190729	Nickel	102	100	P/P	80 - 120
2190729	Selenium	98.4	99.6	P/P	80 - 120
2190729	Silver	107	106	P/P	80 - 120
2190729	Thallium	107	108	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P386376

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2190476	Chloride	98.4		P	90 - 110
2190685	Chloride	97.9		P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P386377

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2190820	Chloride	99.0		P	90 - 110
2190962	Chloride	97.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P386380

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2190820	Sulfate	99.7		P	90 - 110
2190962	Sulfate	98.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P386941

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2191533	Sulfate	96.7		P	90 - 110
2191617	Sulfate	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P386428

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2190686	Ammonia-N	101	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P386316

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2190674	Kjeldahl Nitrogen	108	111	P/F	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P386317

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2190680	Kjeldahl Nitrogen	106	98.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P386303

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2190740	NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P386249

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2190674	Total-P	104	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P386252

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2190815	Total-P	105	105	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P386203

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2190824	O-Phosphate-P	99.8	99.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P386206

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2190675	O-Phosphate-P	98.3	99.0	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P386044

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2190940	Aldrin	55.8	45.3	P/P	32 - 82.0
2190940	Alpha-BHC	86.4	84.1	P/P	68 - 157
2190940	Alpha-Chlordane	87.4	81.1	P/P	54 - 108
2190940	Beta-BHC	110	109	P/P	54 - 200
2190940	Beta-Cyfluthrin	105	118	P/P	50 - 154
2190940	Bifenthrin	90.1	92.4	P/P	49 - 124
2190940	Chlorothalonil	99.3	127	P/P	10 - 289
2190940	Cis-Nonachlor	90.8	82.0	P/P	53 - 112
2190940	Cypermethrin	102	102	P/P	43 - 141
2190940	Dacthal	98.8	94.3	P/P	75 - 112
2190940	DDD-p,p'	101	91.8	P/P	58 - 125
2190940	DDE-p,p'	91.1	82.2	P/P	50 - 108
2190940	DDT-p,p'	94.2	94.9	P/P	52 - 140
2190940	Delta-BHC	168	194	P/P	61 - 228
2190940	Deltamethrin	97.7	129	P/P	50 - 200
2190940	Dicofol	106	112	P/P	59 - 130
2190940	Dieldrin	93.0	83.6	P/P	57 - 121
2190940	Endosulfan I	97.5	95.4	P/P	62 - 123
2190940	Endosulfan II	113	111	P/P	48 - 163
2190940	Endosulfan Sulfate	96.8	109	P/P	63 - 132
2190940	Endrin	99.9	93.4	P/P	58 - 128
2190940	Endrin Aldehyde	70.6	74.6	P/P	44 - 126
2190940	Endrin Ketone	109	113	P/P	68 - 127
2190940	Ethalfluralin	82.0	77.9	P/P	55 - 131
2190940	Gamma-BHC	97.3	98.8	P/P	54 - 206
2190940	Gamma-Chlordane	85.1	77.6	P/P	52 - 105
2190940	Heptachlor	68.4	66.2	P/P	47 - 94.0
2190940	Heptachlor Epoxide	88.3	86.0	P/P	61 - 113
2190940	Hexachlorobenzene	69.6	68.3	P/P	45 - 100
2190940	Lambda-Cyhalothrin	110	111	P/P	37 - 165
2190940	Methoxychlor	105	107	P/P	63 - 153
2190940	Mirex	76.5	71.1	P/P	38 - 90.0
2190940	Permethrin	88.1	86.4	P/P	45 - 112
2190940	Phenothrin	73.7	63.0	P/P	22 - 118
2190940	Prallethrin	69.0	62.1	P/P	21 - 114
2190940	Trans-Nonachlor	72.6	65.1	P/P	50 - 103
2190940	Trifluralin	79.9	76.2	P/P	57 - 122

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P386437

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2191700	Acetochlor	89.4	116	P/P	68 - 126
2191700	Alachlor	90.9	116	P/P	66 - 125
2191700	Ametryn	132	125	P/P	31 - 182
2191700	Atrazine	92.4	125	P/P	68 - 137
2191700	Atrazine Desethyl	79.8	67.1	P/P	13 - 161
2191700	Azinphos Methyl	121	125	P/P	54 - 162
2191700	Bromacil	80.9	112	P/P	34 - 144
2191700	Butylate	61.8	74.9	P/P	16 - 92.0
2191700	Carbophenothion	71.0	87.9	P/P	50 - 150
2191700	Chlorpyrifos Ethyl	84.9	84.2	P/P	63 - 124
2191700	Chlorpyrifos Methyl	92.5	112	P/P	64 - 125
2191700	Cyanazine	114	155	P/P	13 - 245
2191700	Demeton	97.7	107	P/P	20 - 154
2191700	Diazinon	90.0	112	P/P	66 - 141
2191700	Dimethenamid	89.2	112	P/P	50 - 130
2191700	Disulfoton	77.9	91.5	P/P	55 - 130
2191700	Dithiopyr	81.9	104	P/P	66 - 122
2191700	EPTC	63.4	68.4	P/P	15 - 93.0
2191700	Ethion	69.2	81.8	P/P	15 - 148
2191700	Ethoprop	86.1	101	P/P	59 - 126
2191700	Fenamiphos	75.4	62.3	P/P	39 - 137
2191700	Fipronil	96.0	117	P/P	47 - 131
2191700	Fipronil Desulfinyl	89.8	117	P/P	43 - 121
2191700	Fipronil Sulfide	102	109	P/P	29 - 134
2191700	Fipronil Sulfone	92.3	117	P/P	19 - 131
2191700	Flumioxazin	193	215	P/F	70 - 200
2191700	Fonofos	79.5	87.8	P/P	62 - 128
2191700	Hexazinone	90.7	109	P/P	58 - 154
2191700	Imazalil	84.5	109	P/P	50 - 150
2191700	Malathion	101	110	P/P	54 - 135
2191700	Metalaxyl	84.4	125	P/P	46 - 136
2191700	Metolachlor	89.7	121	P/P	62 - 126
2191700	Metribuzin	77.3	101	P/P	44 - 277
2191700	Mevinphos	77.7	89.1	P/P	44 - 135
2191700	Molinate	76.2	94.1	P/P	31 - 104
2191700	Naled	78.3	60.9	P/P	40 - 130
2191700	Oxadiazon	70.6	102	P/P	55 - 123
2191700	Parathion Ethyl	88.5	98.6	P/P	67 - 120
2191700	Parathion Methyl	90.8	100	P/P	70 - 140
2191700	Pendimethalin	97.8	117	P/P	59 - 145
2191700	Phorate	84.6	122	P/P	52 - 127
2191700	Prodiamine	70.7	85.5	P/P	11 - 157
2191700	Prometon	77.9	88.2	P/P	55 - 130
2191700	Prometryn	88.6	117	P/P	55 - 127
2191700	Pronamide	124	126	P/P	50 - 150
2191700	Propiconazole	94.0	118	P/P	50 - 150
2191700	Simazine	80.6	101	P/P	58 - 159
2191700	Sulfentrazone	80.8	69.6	P/P	50 - 150
2191700	Tebuconazole	39.1	46.5	P/P	10 - 122
2191700	Terbufos	91.5	106	P/P	65 - 131
2191700	Terbuthylazine	93.1	113	P/P	63 - 131

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8276
Batch ID: P386044

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2190600	Chlordane	93.2	97.5	P/P	34 - 129
2190600	Toxaphene	103	106	P/P	26 - 123

Reference Method: EPA 8321B
Batch ID: P386102

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2189698	3-Hydroxycarbofuran	65.3	67.2	P/P	30 - 160
2189698	Aldicarb	52.8	73.6	P/P	30 - 160
2189698	Aldicarb Sulfone	76.8	80.3	P/P	30 - 160
2189698	Aldicarb Sulfoxide	35.5	36.0	P/P	30 - 160
2189698	Carbaryl	40.5	39.4	P/P	30 - 160
2189698	Carbofuran	40.7	40.7	P/P	30 - 160
2189698	Methiocarb	44.3	48.9	P/P	30 - 160
2189698	Methomyl	75.1	75.0	P/P	30 - 160
2189698	Oxamyl	79.7	82.1	P/P	30 - 160
2189698	Propoxur	42.5	41.8	P/P	30 - 160

Reference Method: EPA 8321B
Batch ID: P386214

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2190698	Acesulfame K	70.0	70.2	P/P	40 - 150
2190698	AMPA	93.4	99.2	P/P	40 - 150
2190698	Endothall	94.0	96.0	P/P	40 - 150
2190698	Glufosinate	88.4	103	P/P	40 - 150
2190698	Glyphosate	69.3	72.4	P/P	40 - 140
2190698	Sucralose	92.6	91.6	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P386256

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2190698	2,4-D	112	108	P/P	30 - 160
2190698	Acetaminophen	96.7	88.8	P/P	30 - 160
2190698	Acetamiprid	80.6	74.1	P/P	30 - 160
2190698	Afidopyropen	51.6	51.3	P/P	30 - 160
2190698	Bentazon	54.6	48.0	P/P	30 - 160
2190698	Benzovindiflupyr	70.2	72.0	P/P	30 - 160
2190698	Carbamazepine	67.4	64.7	P/P	30 - 160
2190698	Clothianidin	96.7	87.6	P/P	30 - 160
2190698	Dinotefuran	106	98.9	P/P	30 - 160
2190698	Diuron	59.5	53.9	P/P	30 - 160
2190698	Fenuron	88.6	83.2	P/P	30 - 160
2190698	Fluridone	85.5	83.5	P/P	30 - 160
2190698	Hydrocodone	87.0	85.0	P/P	30 - 160
2190698	Ibuprofen	79.6	72.4	P/P	30 - 160
2190698	Imazapyr	102	71.9	P/P	30 - 160
2190698	Imidacloprid	131	98.3	P/P	30 - 160
2190698	Linuron	67.6	57.5	P/P	30 - 160
2190698	Mandestrobin	82.4	75.9	P/P	30 - 160
2190698	MCPP	121	112	P/P	30 - 160

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P386256

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2190698	Naproxen	74.2	88.0	P/P	30 - 160
2190698	Primidone	93.1	83.3	P/P	30 - 160
2190698	Pyraclostrobin	75.3	68.5	P/P	30 - 160
2190698	Thiamethoxam	105	96.9	P/P	30 - 160
2190698	Tolfenpyrad	47.0	42.0	P/P	30 - 160
2190698	Triclopyr	110	96.8	P/P	30 - 160

Reference Method: SM 4500 F-C-2011
Batch ID: P386328

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2190865	Fluoride	98.3	99.7	P/P	94 - 107

Reference Method: SM 5310 B-2011
Batch ID: P386333

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2190822	Organic Carbon	95.9	97.9	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P386190

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190673	Turbidity	5.27	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P386191

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190899	Turbidity	2.93	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P386231

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190729	Barium	1.48	Spike	P	0 - 20
2190729	Calcium	2.82	Spike	P	0 - 20
2190729	Iron	2.92	Spike	P	0 - 20
2190729	Magnesium	2.83	Spike	P	0 - 20
2190729	Potassium	3.20	Spike	P	0 - 20
2190729	Sodium	2.79	Spike	P	0 - 20
2190729	Zinc	1.63	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P386231

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190729	Aluminum	0.316	Spike	P	0 - 20
2190729	Antimony	1.67	Spike	P	0 - 20
2190729	Arsenic	0.359	Spike	P	0 - 20
2190729	Beryllium	0.969	Spike	P	0 - 20
2190729	Boron	0.601	Spike	P	0 - 20
2190729	Cadmium	0.191	Spike	P	0 - 20
2190729	Chromium	0.832	Spike	P	0 - 20
2190729	Copper	2.66	Spike	P	0 - 20
2190729	Lead	0.556	Spike	P	0 - 20
2190729	Nickel	1.61	Spike	P	0 - 20
2190729	Selenium	1.27	Spike	P	0 - 20
2190729	Silver	0.487	Spike	P	0 - 20
2190729	Thallium	0.931	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P386376

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190476	Chloride	0.748	Sample	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P386377

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190820	Chloride	1.76	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P386380

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190820	Sulfate	0.620	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P386941

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2191533	Sulfate	0.0611	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P386428

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190686	Ammonia-N	1.05	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P386316

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190674	Kjeldahl Nitrogen	2.07	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P386317

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190680	Kjeldahl Nitrogen	6.33	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P386303

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190740	NO2NO3-N	0.491	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P386249

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190674	Total-P	0.660	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P386252

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190815	Total-P	0.0759	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P386203

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190824	O-Phosphate-P	0.584	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P386206

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190675	O-Phosphate-P	0.660	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P386044

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190940	Aldrin	20.7	Spike	P	0 - 30
2190940	Alpha-BHC	2.62	Spike	P	0 - 30
2190940	Alpha-Chlordane	7.47	Spike	P	0 - 30
2190940	Beta-BHC	0.925	Spike	P	0 - 30
2190940	Beta-Cyfluthrin	12.0	Spike	P	0 - 30
2190940	Bifenthrin	2.44	Spike	P	0 - 30
2190940	Chlorothalonil	24.3	Spike	P	0 - 30
2190940	Cis-Nonachlor	10.3	Spike	P	0 - 30
2190940	Cypermethrin	0.203	Spike	P	0 - 30
2190940	Dacthal	4.69	Spike	P	0 - 30
2190940	DDD-p,p'	9.83	Spike	P	0 - 30
2190940	DDE-p,p'	10.2	Spike	P	0 - 30
2190940	DDT-p,p'	0.667	Spike	P	0 - 30
2190940	Delta-BHC	14.7	Spike	P	0 - 30
2190940	Deltamethrin	27.3	Spike	P	0 - 30
2190940	Dicofol	6.16	Spike	P	0 - 30
2190940	Dieldrin	10.6	Spike	P	0 - 30
2190940	Endosulfan I	2.15	Spike	P	0 - 30
2190940	Endosulfan II	1.21	Spike	P	0 - 30
2190940	Endosulfan Sulfate	11.6	Spike	P	0 - 30
2190940	Endrin	6.74	Spike	P	0 - 30
2190940	Endrin Aldehyde	5.49	Spike	P	0 - 30
2190940	Endrin Ketone	3.29	Spike	P	0 - 30
2190940	Ethalfluralin	5.13	Spike	P	0 - 30
2190940	Gamma-BHC	1.54	Spike	P	0 - 30
2190940	Gamma-Chlordane	9.24	Spike	P	0 - 30
2190940	Heptachlor	3.30	Spike	P	0 - 30
2190940	Heptachlor Epoxide	2.65	Spike	P	0 - 30
2190940	Hexachlorobenzene	1.96	Spike	P	0 - 30
2190940	Lambda-Cyhalothrin	0.886	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P386044

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190940	Methoxychlor	1.78	Spike	P	0 - 30
2190940	Mirex	7.33	Spike	P	0 - 30
2190940	Permethrin	2.02	Spike	P	0 - 30
2190940	Phenothrin	15.7	Spike	P	0 - 30
2190940	Prallethrin	10.6	Spike	P	0 - 30
2190940	Trans-Nonachlor	10.9	Spike	P	0 - 30
2190940	Trifluralin	4.71	Spike	P	0 - 30
LFB	Aldrin	37.9	LCS	F	0 - 30
LFB	Alpha-BHC	6.64	LCS	P	0 - 30
LFB	Alpha-Chlordane	8.43	LCS	P	0 - 30
LFB	Beta-BHC	2.21	LCS	P	0 - 30
LFB	Beta-Cyfluthrin	3.53	LCS	P	0 - 30
LFB	Bifenthrin	12.4	LCS	P	0 - 30
LFB	Chlorothalonil	2.63	LCS	P	0 - 30
LFB	Cis-Nonachlor	11.1	LCS	P	0 - 30
LFB	Cypermethrin	20.5	LCS	P	0 - 30
LFB	Dacthal	5.76	LCS	P	0 - 30
LFB	DDD-p,p'	8.77	LCS	P	0 - 30
LFB	DDE-p,p'	11.0	LCS	P	0 - 30
LFB	DDT-p,p'	8.24	LCS	P	0 - 30
LFB	Delta-BHC	4.40	LCS	P	0 - 30
LFB	Deltamethrin	2.00	LCS	P	0 - 30
LFB	Dicofol	9.12	LCS	P	0 - 30
LFB	Dieldrin	9.60	LCS	P	0 - 30
LFB	Endosulfan I	6.39	LCS	P	0 - 30
LFB	Endosulfan II	10.1	LCS	P	0 - 30
LFB	Endosulfan Sulfate	5.34	LCS	P	0 - 30
LFB	Endrin	10.9	LCS	P	0 - 30
LFB	Endrin Aldehyde	17.9	LCS	P	0 - 30
LFB	Endrin Ketone	9.96	LCS	P	0 - 30
LFB	Ethalfluralin	8.16	LCS	P	0 - 30
LFB	Gamma-BHC	5.70	LCS	P	0 - 30
LFB	Gamma-Chlordane	10.2	LCS	P	0 - 30
LFB	Heptachlor	13.8	LCS	P	0 - 30
LFB	Heptachlor Epoxide	6.89	LCS	P	0 - 30
LFB	Hexachlorobenzene	12.4	LCS	P	0 - 30
LFB	Lambda-Cyhalothrin	11.8	LCS	P	0 - 30
LFB	Methoxychlor	8.23	LCS	P	0 - 30
LFB	Mirex	10.0	LCS	P	0 - 30
LFB	Permethrin	7.31	LCS	P	0 - 30
LFB	Phenothrin	27.9	LCS	P	0 - 30
LFB	Prallethrin	16.4	LCS	P	0 - 30
LFB	Trans-Nonachlor	2.44	LCS	P	0 - 30
LFB	Trifluralin	5.08	LCS	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P386437

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2191700	Acetochlor	25.9	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P386437

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2191700	Alachlor	23.9	Spike	P	0 - 30
2191700	Ametryn	5.49	Spike	P	0 - 30
2191700	Atrazine	25.4	Spike	P	0 - 30
2191700	Atrazine Desethyl	17.3	Spike	P	0 - 30
2191700	Azinphos Methyl	3.51	Spike	P	0 - 30
2191700	Bromacil	25.9	Spike	P	0 - 30
2191700	Butylate	19.2	Spike	P	0 - 30
2191700	Carbophenothion	21.3	Spike	P	0 - 30
2191700	Chlorpyrifos Ethyl	0.815	Spike	P	0 - 30
2191700	Chlorpyrifos Methyl	18.9	Spike	P	0 - 30
2191700	Cyanazine	31.0	Spike	F	0 - 30
2191700	Demeton	8.91	Spike	P	0 - 30
2191700	Diazinon	22.2	Spike	P	0 - 30
2191700	Dimethenamid	22.4	Spike	P	0 - 30
2191700	Disulfoton	16.1	Spike	P	0 - 30
2191700	Dithiopyr	22.8	Spike	P	0 - 30
2191700	EPTC	7.64	Spike	P	0 - 30
2191700	Ethion	16.7	Spike	P	0 - 30
2191700	Ethoprop	16.4	Spike	P	0 - 30
2191700	Fenamiphos	19.0	Spike	P	0 - 30
2191700	Fipronil	19.9	Spike	P	0 - 30
2191700	Fipronil Desulfinyl	26.2	Spike	P	0 - 30
2191700	Fipronil Sulfide	7.27	Spike	P	0 - 30
2191700	Fipronil Sulfone	19.8	Spike	P	0 - 30
2191700	Flumioxazin	10.3	Spike	P	0 - 30
2191700	Fonofos	9.91	Spike	P	0 - 30
2191700	Hexazinone	18.3	Spike	P	0 - 30
2191700	Imazalil	25.1	Spike	P	0 - 30
2191700	Malathion	8.28	Spike	P	0 - 30
2191700	Metalaxyl	28.6	Spike	P	0 - 30
2191700	Metolachlor	28.4	Spike	P	0 - 30
2191700	Metribuzin	26.7	Spike	P	0 - 30
2191700	Mevinphos	13.7	Spike	P	0 - 30
2191700	Molinate	21.1	Spike	P	0 - 30
2191700	Naled	25.0	Spike	P	0 - 30
2191700	Norflurazon	19.9	Spike	P	0 - 30
2191700	Oxadiazon	27.7	Spike	P	0 - 30
2191700	Parathion Ethyl	10.7	Spike	P	0 - 30
2191700	Parathion Methyl	9.77	Spike	P	0 - 30
2191700	Pendimethalin	18.2	Spike	P	0 - 30
2191700	Phorate	36.3	Spike	F	0 - 30
2191700	Prodiamine	19.0	Spike	P	0 - 30
2191700	Prometon	12.4	Spike	P	0 - 30
2191700	Prometryn	27.7	Spike	P	0 - 30
2191700	Pronamide	2.15	Spike	P	0 - 30
2191700	Propiconazole	22.7	Spike	P	0 - 30
2191700	Simazine	14.5	Spike	P	0 - 30
2191700	Sulfentrazone	14.9	Spike	P	0 - 30
2191700	Tebuconazole	17.2	Spike	P	0 - 30
2191700	Terbufos	14.4	Spike	P	0 - 30
2191700	Terbuthylazine	19.2	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P386437

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Acetochlor	11.5	LCS	P	0 - 30
LFB	Alachlor	11.0	LCS	P	0 - 30
LFB	Ametryn	10.7	LCS	P	0 - 30
LFB	Atrazine	13.0	LCS	P	0 - 30
LFB	Atrazine Desethyl	19.5	LCS	P	0 - 30
LFB	Azinphos Methyl	20.1	LCS	P	0 - 30
LFB	Bromacil	3.61	LCS	P	0 - 30
LFB	Butylate	14.7	LCS	P	0 - 30
LFB	Carbophenothion	9.36	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	10.2	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	15.0	LCS	P	0 - 30
LFB	Cyanazine	11.2	LCS	P	0 - 30
LFB	Demeton	14.8	LCS	P	0 - 30
LFB	Diazinon	12.2	LCS	P	0 - 30
LFB	Dimethenamid	9.46	LCS	P	0 - 30
LFB	Disulfoton	22.3	LCS	P	0 - 30
LFB	Dithiopyr	6.59	LCS	P	0 - 30
LFB	EPTC	12.3	LCS	P	0 - 30
LFB	Ethion	8.14	LCS	P	0 - 30
LFB	Ethoprop	14.5	LCS	P	0 - 30
LFB	Fenamiphos	5.88	LCS	P	0 - 30
LFB	Fipronil	10.8	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	9.60	LCS	P	0 - 30
LFB	Fipronil Sulfide	11.4	LCS	P	0 - 30
LFB	Fipronil Sulfone	7.32	LCS	P	0 - 30
LFB	Flumioxazin	9.05	LCS	P	0 - 30
LFB	Fonofos	8.49	LCS	P	0 - 30
LFB	Hexazinone	5.22	LCS	P	0 - 30
LFB	Imazalil	12.9	LCS	P	0 - 30
LFB	Malathion	15.4	LCS	P	0 - 30
LFB	Metalaxyl	9.27	LCS	P	0 - 30
LFB	Metolachlor	9.04	LCS	P	0 - 30
LFB	Metribuzin	11.3	LCS	P	0 - 30
LFB	Mevinphos	14.8	LCS	P	0 - 30
LFB	Molinate	10.8	LCS	P	0 - 30
LFB	Naled	2.22	LCS	P	0 - 30
LFB	Norflurazon	8.21	LCS	P	0 - 30
LFB	Oxadiazon	6.86	LCS	P	0 - 30
LFB	Parathion Ethyl	21.2	LCS	P	0 - 30
LFB	Parathion Methyl	12.7	LCS	P	0 - 30
LFB	Pendimethalin	12.1	LCS	P	0 - 30
LFB	Phorate	11.4	LCS	P	0 - 30
LFB	Prodiamine	3.05	LCS	P	0 - 30
LFB	Prometon	10.6	LCS	P	0 - 30
LFB	Prometryn	9.03	LCS	P	0 - 30
LFB	Pronamide	7.03	LCS	P	0 - 30
LFB	Propiconazole	8.19	LCS	P	0 - 30
LFB	Simazine	15.6	LCS	P	0 - 30
LFB	Sulfentrazone	6.81	LCS	P	0 - 30
LFB	Tebuconazole	2.31	LCS	P	0 - 30
LFB	Terbufos	16.0	LCS	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P386437

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Terbuthylazine	9.89	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P386044

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190600	Chlordane	4.47	Spike	P	0 - 30
2190600	Toxaphene	3.59	Spike	P	0 - 30
LFB	Chlordane	0.577	LCS	P	0 - 30
LFB	Toxaphene	4.20	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P386102

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2189698	3-Hydroxycarbofuran	2.78	Spike	P	0 - 30
2189698	Aldicarb	32.9	Spike	F	0 - 30
2189698	Aldicarb Sulfone	4.45	Spike	P	0 - 30
2189698	Aldicarb Sulfoxide	1.44	Spike	P	0 - 30
2189698	Carbaryl	2.84	Spike	P	0 - 30
2189698	Carbofuran	0.0986	Spike	P	0 - 30
2189698	Methiocarb	9.82	Spike	P	0 - 30
2189698	Methomyl	0.200	Spike	P	0 - 30
2189698	Oxamyl	2.91	Spike	P	0 - 30
2189698	Propoxur	1.61	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P386214

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190698	Acesulfame K	0.199	Spike	P	0 - 30
2190698	AMPA	6.10	Spike	P	0 - 30
2190698	Endothall	2.17	Spike	P	0 - 30
2190698	Glufosinate	15.6	Spike	P	0 - 30
2190698	Glyphosate	4.35	Spike	P	0 - 30
2190698	Sucralose	1.04	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P386256

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190698	2,4-D	3.11	Spike	P	0 - 30
2190698	Acetaminophen	8.48	Spike	P	0 - 30
2190698	Acetamiprid	8.42	Spike	P	0 - 30
2190698	Afidopyropen	0.549	Spike	P	0 - 30
2190698	Bentazon	13.0	Spike	P	0 - 30
2190698	Benzovindiflupyr	2.64	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P386256

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190698	Carbamazepine	4.07	Spike	P	0 - 30
2190698	Clothianidin	9.84	Spike	P	0 - 30
2190698	Dinotefuran	6.54	Spike	P	0 - 30
2190698	Diuron	9.84	Spike	P	0 - 30
2190698	Fenuron	6.22	Spike	P	0 - 30
2190698	Fluridone	2.43	Spike	P	0 - 30
2190698	Hydrocodone	2.43	Spike	P	0 - 30
2190698	Ibuprofen	9.60	Spike	P	0 - 30
2190698	Imazapyr	29.1	Spike	P	0 - 30
2190698	Imidacloprid	28.4	Spike	P	0 - 30
2190698	Linuron	16.1	Spike	P	0 - 30
2190698	Mandestrobin	8.22	Spike	P	0 - 30
2190698	MCPP	7.98	Spike	P	0 - 30
2190698	Naproxen	16.9	Spike	P	0 - 30
2190698	Primidone	11.2	Spike	P	0 - 30
2190698	Pyraclostrobin	9.47	Spike	P	0 - 30
2190698	Thiamethoxam	7.73	Spike	P	0 - 30
2190698	Tolfenpyrad	11.3	Spike	P	0 - 30
2190698	Triclopyr	12.7	Spike	P	0 - 30

Reference Method: SM 2120 B-2011
Batch ID: P386199

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190677	Color (true)	2.47	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P386324

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190865	Total Alkalinity	0.814	Sample	P	0 - 8.1

Reference Method: SM 2540 C-2011
Batch ID: P386502

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190357	TDS	4.43	Sample	P	0 - 10

Reference Method: SM 2540 C-2011
Batch ID: P386504

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190809	TDS	3.12	Sample	P	0 - 10

Quality Assurance Report
Precision

Reference Method: SM 4500 F-C-2011
Batch ID: P386328

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190865	Fluoride	0.457	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
Batch ID: P386333

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2190822	Organic Carbon	1.71	Spike	P	0 - 20

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2190858
Field Sample ID: G3SD0157

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	36.0	P	30 - 160

Lab Sample ID: 2190859
Field Sample ID: G3SD0159

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	36.3	P	30 - 160

Lab Sample ID: 2190860
Field Sample ID: G3SD0157

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	89.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	64.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	57.7	P	30 - 160
EPA 8321B	Diuron-d6	48.1	P	30 - 160
EPA 8321B	Endothall-d6	112	P	30 - 160
EPA 8321B	Endothall-d6	112	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	63.7	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	63.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	75.6	P	30 - 160
EPA 8321B	Primidone-d5	62.6	P	30 - 160
EPA 8321B	Sucralose-d6	85.5	P	30 - 160
EPA 8321B	Sucralose-d6	85.5	P	30 - 160

Lab Sample ID: 2190861
Field Sample ID: G3SD0159

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	96.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	65.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	61.6	P	30 - 160
EPA 8321B	Diuron-d6	51.0	P	30 - 160
EPA 8321B	Endothall-d6	117	P	30 - 160
EPA 8321B	Endothall-d6	117	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	52.1	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	52.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	69.9	P	30 - 160
EPA 8321B	Primidone-d5	73.9	P	30 - 160
EPA 8321B	Sucralose-d6	40.8	P	30 - 160
EPA 8321B	Sucralose-d6	40.8	P	30 - 160

Lab Sample ID: 2190862
Field Sample ID: G3SD0096

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	99.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	65.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	57.4	P	30 - 160
EPA 8321B	Diuron-d6	51.7	P	30 - 160
EPA 8321B	Endothall-d6	114	P	30 - 160
EPA 8321B	Endothall-d6	114	P	30 - 160

Quality Assurance Report
Surrogates

Lab Sample ID: 2190862
Field Sample ID: G3SD0096

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Glyphosate 13C 15N	50.8	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	50.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	74.6	P	30 - 160
EPA 8321B	Primidone-d5	68.3	P	30 - 160
EPA 8321B	Sucralose-d6	79.0	P	30 - 160
EPA 8321B	Sucralose-d6	79.0	P	30 - 160

Lab Sample ID: 2190863
Field Sample ID: FB08172020

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	47.5	P	30 - 160

Lab Sample ID: 2190864
Field Sample ID: FB08172020

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	112	P	30 - 160
EPA 8321B	Acetaminophen-d4	90.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	67.0	P	30 - 160
EPA 8321B	Diuron-d6	63.5	P	30 - 160
EPA 8321B	Endothall-d6	113	P	30 - 160
EPA 8321B	Endothall-d6	113	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	69.6	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	69.6	P	30 - 160
EPA 8321B	Ibuprofen-d3	73.1	P	30 - 160
EPA 8321B	Primidone-d5	79.4	P	30 - 160
EPA 8321B	Sucralose-d6	90.4	P	30 - 160
EPA 8321B	Sucralose-d6	90.4	P	30 - 160

Lab Sample ID: 2190868
Field Sample ID: G3SD0157

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	95.1	P	44 - 112
EPA 8270E	Tetrachloro-m-xylene	60.3	P	34 - 106
EPA 8276	Decachlorobiphenyl	66.5	P	26 - 97.0
EPA 8276	PCNB	78.8	P	38 - 141

Lab Sample ID: 2190869
Field Sample ID: G3SD0159

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	83.0	P	44 - 112
EPA 8270E	Tetrachloro-m-xylene	60.0	P	34 - 106
EPA 8276	Decachlorobiphenyl	56.2	P	26 - 97.0
EPA 8276	PCNB	79.4	P	38 - 141

Lab Sample ID: 2190870
Field Sample ID: G3SD0157

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits

Quality Assurance Report
Surrogates

Lab Sample ID: 2190870
Field Sample ID: G3SD0157

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	95.9	P	72 - 135
EPA 8270E	Terbufos-d10	93.0	P	57 - 134

Lab Sample ID: 2190871
Field Sample ID: G3SD0159

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	103	P	72 - 135
EPA 8270E	Terbufos-d10	91.1	P	57 - 134

Lab Sample ID: 2190872
Field Sample ID: FB08172020

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	82.0	P	44 - 112
EPA 8270E	Tetrachloro-m-xylene	63.8	P	34 - 106
EPA 8276	Decachlorobiphenyl	53.1	P	26 - 97.0
EPA 8276	PCNB	78.5	P	38 - 141

Lab Sample ID: 2190873
Field Sample ID: FB08172020

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	92.0	P	72 - 135
EPA 8270E	Terbufos-d10	94.0	P	57 - 134

Quality Assurance Report
Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A100517
Included Lab Sample IDs: 2190808, 2190809, 2190814, 2190817

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

Reference Method: SM 2120 B-2011
Run ID: A100519
Included Lab Sample IDs: 2190808, 2190809, 2190814, 2190817

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	99.7	P/P	90 - 115
Color (true)	101	102	P/P	90 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A100520
Included Lab Sample IDs: 2190812, 2190813, 2190816, 2190819

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.9	99.4	P/P	90 - 110
O-Phosphate-P	99.2	100	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A100543
Included Lab Sample IDs: 2190808, 2190809, 2190814, 2190817

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	100	P/P	90 - 110
Chloride	100	102	P/P	90 - 110
Sulfate	100	101	P/P	90 - 110
Sulfate	101	102	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A100548
Included Lab Sample IDs: 2190879, 2190880, 2190881, 2190882

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	101	103	P/P	90 - 110
Barium	102	104	P/P	90 - 110
Calcium	102	102	P/P	90 - 110
Calcium	103	103	P/P	90 - 110
Iron	102	101	P/P	90 - 110
Iron	102	102	P/P	90 - 110
Magnesium	101	99.9	P/P	90 - 110
Magnesium	101	101	P/P	90 - 110
Potassium	98.2	98.2	P/P	90 - 110
Potassium	99.8	99.1	P/P	90 - 110
Sodium	102	101	P/P	90 - 110
Sodium	99.9	100	P/P	90 - 110
Zinc	101	103	P/P	90 - 110
Zinc	101	102	P/P	90 - 110

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Reference Method: EPA 8321B
Run ID: A100557
Included Lab Sample IDs: 2190860, 2190861, 2190862, 2190864

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	77.6	78.9	P/P	60 - 160
Glufosinate	95.9	91.9	P/P	60 - 160
Glyphosate	81.8	82.5	P/P	60 - 160

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A100558
Included Lab Sample IDs: 2190810, 2190811, 2190815, 2190818

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	102	P/P	90 - 110
NO2NO3-N	104	104	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A100560
Included Lab Sample IDs: 2190808, 2190809, 2190814, 2190817

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.5	99.6	P/P	90 - 110
Total Alkalinity	99.6	98.1	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Run ID: A100560
Included Lab Sample IDs: 2190808, 2190809, 2190814, 2190817

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	103	104	P/P	90 - 110
Fluoride	104	105	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A100563
Included Lab Sample IDs: 2190810, 2190811, 2190815, 2190818

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.9	95.1	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A100565
Included Lab Sample IDs: 2190858, 2190859, 2190863

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	106	104	P/P	60 - 150
Aldicarb	133	110	P/P	60 - 150
Aldicarb Sulfone	96.4	98.9	P/P	50 - 150
Aldicarb Sulfoxide	94.0	100	P/P	50 - 150
Carbaryl	110	114	P/P	60 - 150
Carbofuran	97.1	101	P/P	50 - 150
Methiocarb	117	112	P/P	50 - 150
Methomyl	100	104	P/P	50 - 150
Oxamyl	99.5	102	P/P	50 - 150
Propoxur	111	108	P/P	50 - 150

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Reference Method: EPA 365.1 Rev. 2.0
Run ID: A100566
Included Lab Sample IDs: 2190810, 2190811, 2190815

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	102	P/P	90 - 110
Total-P	102	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A100575
Included Lab Sample IDs: 2190818

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.0	98.2	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A100586
Included Lab Sample IDs: 2190860, 2190861, 2190862, 2190864

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	62.3	65.3	P/P	60 - 160
Endothall	110	94.9	P/P	60 - 160

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A100590
Included Lab Sample IDs: 2190810, 2190811, 2190815, 2190818

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	96.2	P/P	90 - 110
Kjeldahl Nitrogen	98.5	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A100597
Included Lab Sample IDs: 2190810, 2190811, 2190815, 2190818

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.1	99.0	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A100601
Included Lab Sample IDs: 2190879, 2190880, 2190881, 2190882

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Antimony	108	108	P/P	90 - 110
Antimony	109	109	P/P	90 - 110
Arsenic	102	103	P/P	90 - 110
Arsenic	102	102	P/P	90 - 110
Boron	104	104	P/P	90 - 110
Boron	104	103	P/P	90 - 110
Cadmium	103	102	P/P	90 - 110
Cadmium	103	103	P/P	90 - 110
Chromium	101	101	P/P	90 - 110
Chromium	101	102	P/P	90 - 110
Copper	97.0	97.5	P/P	90 - 110
Copper	98.0	98.1	P/P	90 - 110
Lead	104	104	P/P	90 - 110

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Reference Method: EPA 200.8 Rev. 5.4
Run ID: A100601
Included Lab Sample IDs: 2190879, 2190880, 2190881, 2190882

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Lead	107	106	P/P	90 - 110
Nickel	98.5	99.7	P/P	90 - 110
Nickel	99.6	98.5	P/P	90 - 110
Selenium	102	102	P/P	90 - 110
Selenium	102	104	P/P	90 - 110
Silver	104	106	P/P	90 - 110
Silver	105	104	P/P	90 - 110
Thallium	101	101	P/P	90 - 110
Thallium	101	98.8	P/P	90 - 110

Reference Method: EPA 8276
Run ID: A100605
Included Lab Sample IDs: 2190868, 2190869, 2190872

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	98.7		P	80 - 120
Toxaphene	106		P	80 - 120

Reference Method: EPA 8321B
Run ID: A100611
Included Lab Sample IDs: 2190860, 2190861, 2190862, 2190864

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	113	98.2	P/P	50 - 150
2,4-D	98.2	106	P/P	50 - 150
Acetaminophen	108	110	P/P	60 - 160
Acetaminophen	115	108	P/P	60 - 160
Acetamiprid	115	118	P/P	50 - 150
Acetamiprid	118	114	P/P	50 - 150
Afidopyropen	105	97.2	P/P	50 - 150
Afidopyropen	97.2	103	P/P	50 - 150
Bentazon	106	115	P/P	50 - 160
Bentazon	109	106	P/P	50 - 160
Benzovindiflupyr	101	109	P/P	50 - 150
Benzovindiflupyr	98.5	101	P/P	50 - 150
Carbamazepine	106	108	P/P	60 - 150
Carbamazepine	108	106	P/P	60 - 150
Clothianidin	103	115	P/P	60 - 150
Clothianidin	112	103	P/P	60 - 150
Dinotefuran	104	98.5	P/P	50 - 150
Dinotefuran	98.5	108	P/P	50 - 150
Diuron	108	117	P/P	60 - 160
Diuron	108	108	P/P	60 - 160
Fenuron	110	117	P/P	60 - 150
Fenuron	114	110	P/P	60 - 150
Fluridone	106	111	P/P	60 - 160
Fluridone	111	109	P/P	60 - 160
Hydrocodone	101	103	P/P	60 - 150
Hydrocodone	103	108	P/P	60 - 150
Ibuprofen	104	110	P/P	50 - 160
Ibuprofen	116	104	P/P	50 - 160

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Reference Method: EPA 8321B
Run ID: A100611
Included Lab Sample IDs: 2190860, 2190861, 2190862, 2190864

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Imazapyr	88.9	97.3	P/P	50 - 150
Imazapyr	97.3	79.1	P/P	50 - 150
Imidacloprid	106	106	P/P	60 - 150
Imidacloprid	109	91.5	P/P	60 - 150
Imidacloprid	91.5	106	P/P	60 - 150
Linuron	101	104	P/P	60 - 150
Linuron	104	108	P/P	60 - 150
Mandestrobin	120	123	P/P	50 - 150
Mandestrobin	123	123	P/P	50 - 150
MCPP	101	96.7	P/P	50 - 150
MCPP	96.7	101	P/P	50 - 150
Naproxen	105	112	P/P	50 - 160
Naproxen	96.8	105	P/P	50 - 160
Primidone	101	109	P/P	60 - 150
Primidone	102	101	P/P	60 - 150
Pyraclostrobin	100	106	P/P	60 - 150
Pyraclostrobin	106	97.8	P/P	60 - 150
Thiamethoxam	108	91.9	P/P	50 - 150
Thiamethoxam	109	105	P/P	50 - 150
Thiamethoxam	91.9	109	P/P	50 - 150
Tolfenpyrad	107	99.2	P/P	60 - 150
Tolfenpyrad	99.2	93.6	P/P	60 - 150
Triclopyr	103	88.8	P/P	50 - 150
Triclopyr	88.8	104	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A100615
Included Lab Sample IDs: 2190868, 2190869, 2190872

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	96.0		P	80 - 120
Alpha-BHC	95.5		P	80 - 120
Alpha-Chlordane	95.6		P	80 - 120
Beta-BHC	102		P	80 - 120
Beta-Cyfluthrin	94.5		P	80 - 120
Bifenthrin	92.7		P	80 - 120
Chlorothalonil	85.6		P	80 - 120
Cis-Nonachlor	94.5		P	80 - 120
Cypermethrin	95.0		P	80 - 120
Dacthal	96.5		P	80 - 120
DDD-p,p'	95.8		P	80 - 120
DDE-p,p'	97.4		P	80 - 120
DDT-p,p'	108		P	80 - 120
Delta-BHC	105		P	80 - 120
Deltamethrin	102		P	80 - 120
Dicofol	95.8		P	80 - 120
Dieldrin	95.8		P	80 - 120
Endosulfan I	96.5		P	80 - 120
Endosulfan II	97.0		P	80 - 120
Endosulfan Sulfate	90.3		P	80 - 120
Endrin	88.7		P	80 - 120

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Reference Method: EPA 8270E
Run ID: A100615
Included Lab Sample IDs: 2190868, 2190869, 2190872

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endrin Aldehyde	97.4		P	80 - 120
Endrin Ketone	94.8		P	80 - 120
Ethalfluralin	100		P	80 - 120
Gamma-BHC	92.9		P	80 - 120
Gamma-Chlordane	96.3		P	80 - 120
Heptachlor	90.2		P	80 - 120
Heptachlor Epoxide	96.3		P	80 - 120
Hexachlorobenzene	94.3		P	80 - 120
Lambda-Cyhalothrin	93.6		P	80 - 120
Methoxychlor	109		P	80 - 120
Mirex	96.5		P	80 - 120
Permethrin	88.6		P	80 - 120
Phenothrin	87.7		P	80 - 120
Prallethrin	80.2		P	80 - 120
Trans-Nonachlor	96.2		P	80 - 120
Trifluralin	96.1		P	80 - 120

Reference Method: EPA 8321B
Run ID: A100617
Included Lab Sample IDs: 2190860, 2190861, 2190862, 2190864

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	92.7	93.3	P/P	60 - 160
Sucralose	93.3	92.7	P/P	60 - 160

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A100621
Included Lab Sample IDs: 2190879, 2190880, 2190881, 2190882

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	103	100	P/P	90 - 110
Aluminum	103	104	P/P	90 - 110
Beryllium	102	99.5	P/P	90 - 110
Beryllium	96.9	99.2	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A100737
Included Lab Sample IDs: 2190870, 2190871, 2190873

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	97.4		P	80 - 120
Alachlor	99.7		P	80 - 120
Ametryn	108		P	80 - 120
Atrazine	97.8		P	80 - 120
Atrazine Desethyl	107		P	80 - 120
Azinphos Methyl	102		P	80 - 120
Bromacil	98.2		P	80 - 120
Butylate	96.0		P	80 - 120
Carbophenothion	100		P	80 - 120
Chlorpyrifos Ethyl	101		P	80 - 120
Chlorpyrifos Methyl	102		P	80 - 120

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Reference Method: EPA 8270E
Run ID: A100737
Included Lab Sample IDs: 2190870, 2190871, 2190873

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cyanazine	98.9		P	80 - 120
Demeton	97.6		P	80 - 120
Diazinon	99.3		P	80 - 120
Dimethenamid	98.5		P	80 - 120
Disulfoton	97.9		P	80 - 120
Dithiopyr	101		P	80 - 120
EPTC	98.6		P	80 - 120
Ethion	100		P	80 - 120
Ethoprop	98.5		P	80 - 120
Fenamiphos	105		P	80 - 120
Fipronil	99.8		P	80 - 120
Fipronil Desulfinyl	99.5		P	80 - 120
Fipronil Sulfide	101		P	80 - 120
Fipronil Sulfone	98.4		P	80 - 120
Flumioxazin	94.1		P	80 - 120
Fonofos	96.1		P	80 - 120
Hexazinone	111		P	80 - 120
Imazalil	110		P	80 - 120
Malathion	97.5		P	80 - 120
Metalaxyl	102		P	80 - 120
Metolachlor	102		P	80 - 120
Metribuzin	98.2		P	80 - 120
Mevinphos	96.6		P	80 - 120
Molinate	95.9		P	80 - 120
Naled	97.1		P	80 - 120
Norflurazon	97.8		P	80 - 120
Oxadiazon	104		P	80 - 120
Parathion Ethyl	99.4		P	80 - 120
Parathion Methyl	95.8		P	80 - 120
Pendimethalin	103		P	80 - 120
Phorate	99.7		P	80 - 120
Prodiamine	105		P	80 - 120
Prometon	97.8		P	80 - 120
Prometryn	100		P	80 - 120
Pronamide	96.3		P	80 - 120
Propiconazole	99.9		P	80 - 120
Simazine	92.0		P	80 - 120
Sulfentrazone	97.2		P	80 - 120
Tebuconazole	105		P	80 - 120
Terbufos	98.8		P	80 - 120
Terbuthylazine	99.4		P	80 - 120

Reference Method: EPA 8270E
Run ID: A100767
Included Lab Sample IDs: 2190870, 2190871

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bromacil	101		P	80 - 120
Hexazinone	98.7		P	80 - 120
Norflurazon	102		P	80 - 120
Simazine	98.9		P	80 - 120

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* 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							5.27	
	Turbidity							2.93	
EPA 200.7 Rev. 4.4	Barium	104		104	105	103			1.48
	Calcium	109		105	111	108			2.82
	Iron	107		107	108	105			2.92
	Magnesium	108		106	109	105			2.83
	Potassium	104		103	111	107			3.20
	Sodium	105		105	105	101			2.79
	Zinc	105		104	107	105			1.63
EPA 200.8 Rev. 5.4	Aluminum	105		104	104	105			0.316
	Antimony	107		107	105	108			1.67
	Arsenic	103		104	103	102			0.359
	Beryllium	107		110	109	102			0.969
	Boron	107		104	103	107			0.601
	Cadmium	105		104	104	106			0.191
	Chromium	104		104	104	107			0.832
	Copper	100		104	102	104			2.66
	Lead	108		108	108	110			0.556
	Nickel	101		102	100	102			1.61
	Selenium	102		98.4	99.6	100			1.27
	Silver	106		107	106	108			0.487
	Thallium	105		107	108	106			0.931
EPA 300.0 Rev. 2.1	Chloride	97.1		98.4	97.9			0.748	
	Chloride	98.7		99.0	97.9			1.76	
	Sulfate	99.5		99.7	98.4			0.620	
	Sulfate	98.1		96.7	100			0.0611	
EPA 350.1 Rev. 2.0	Ammonia-N	96.6		101	102				1.05
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.0		108	111				2.07
	Kjeldahl Nitrogen	108		106	98.5				6.33
EPA 353.2 Rev. 2.0	NO2NO3-N	101		102	102				0.491
EPA 365.1 Rev. 2.0	Total-P	100		104	105				0.660
	Total-P	100		105	105				0.0759
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101		99.8	99.1				0.584
	O-Phosphate-P	99.9		98.3	99.0				0.660
EPA 8270E	Acetochlor	86.6	97.2	89.4	116		11.5		25.9
	Alachlor	87.9	98.1	90.9	116		11.0		23.9
	Aldrin	58.8	40.1	55.8	45.3		37.9		20.7
	Alpha-BHC	87.8	82.2	86.4	84.1		6.64		2.62
	Alpha-Chlordane	88.6	81.4	81.1	87.4		8.43		7.47
	Ametryn	86.2	95.9	132	125		10.7		5.49
	Atrazine	89.4	102	92.4	125		13.0		25.4
	Atrazine Desethyl	70.6	85.8	79.8	67.1		19.5		17.3
	Azinphos Methyl	99.7	122	121	125		20.1		3.51
	Beta-BHC	107	109	110	109		2.21		0.925
	Beta-Cyfluthrin	94.7	91.4	105	118		3.53		12.0
	Bifenthrin	92.7	81.9	90.1	92.4		12.4		2.44
	Bromacil	87.8	91.0	80.9	112		3.61		25.9
	Butylate	56.7	65.7	61.8	74.9		14.7		19.2
	Carbophenothion	88.5	97.2	71.0	87.9		9.36		21.3
	Chlorothalonil	73.6	75.6	99.3	127		2.63		24.3
	Chlorpyrifos Ethyl	87.5	96.9	84.9	84.2		10.2		0.815
	Chlorpyrifos Methyl	89.3	104	92.5	112		15.0		18.9
	Cis-Nonachlor	92.7	83.0	90.8	82.0		11.1		10.3
	Cyanazine	119	133	114	155		11.2		31.0

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Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision		
						LCS	SMP	MS
EPA 8270E	Cypermethrin	106	86.3	102	102	20.5		0.203
	Dacthal	97.7	92.3	98.8	94.3	5.76		4.69
	DDD-p,p'	99.9	91.5	101	91.8	8.77		9.83
	DDE-p,p'	92.8	83.1	91.1	82.2	11.0		10.2
	DDT-p,p'	100	92.2	94.2	94.9	8.24		0.667
	Delta-BHC	158	151	168	194	4.40		14.7
	Deltamethrin	110	112	97.7	129	2.00		27.3
	Demeton	78.3	90.8	97.7	107	14.8		8.91
	Diazinon	84.7	95.7	90.0	112	12.2		22.2
	Dicofol	114	104	106	112	9.12		6.16
	Dieldrin	95.6	86.9	93.0	83.6	9.60		10.6
	Dimethenamid	86.0	94.5	89.2	112	9.46		22.4
	Disulfoton	77.1	96.4	77.9	91.5	22.3		16.1
	Dithiopyr	85.7	91.5	81.9	104	6.59		22.8
	Endosulfan I	94.5	88.6	97.5	95.4	6.39		2.15
	Endosulfan II	110	99.1	113	111	10.1		1.21
	Endosulfan Sulfate	97.8	92.7	96.8	109	5.34		11.6
	Endrin	93.2	83.6	99.9	93.4	10.9		6.74
	Endrin Aldehyde	80.4	67.1	70.6	74.6	17.9		5.49
	Endrin Ketone	115	104	109	113	9.96		3.29
	EPTC	56.9	64.3	63.4	68.4	12.3		7.64
	Ethalfluralin	81.0	74.6	82.0	77.9	8.16		5.13
	Ethion	81.5	88.4	69.2	81.8	8.14		16.7
	Ethoprop	78.8	91.1	86.1	101	14.5		16.4
	Fenamiphos	88.9	94.3	75.4	62.3	5.88		19.0
	Fipronil	90.3	101	96.0	117	10.8		19.9
	Fipronil Desulfinyl	90.0	99.1	89.8	117	9.60		26.2
	Fipronil Sulfide	85.3	95.6	102	109	11.4		7.27
	Fipronil Sulfone	97.4	105	92.3	117	7.32		19.8
	Flumioxazin	177	194	193	215	9.05		10.3
	Fonofos	81.1	88.3	79.5	87.8	8.49		9.91
	Gamma-BHC	100	94.4	97.3	98.8	5.70		1.54
	Gamma-Chlordane	87.4	78.9	85.1	77.6	10.2		9.24
	Heptachlor	78.1	68.0	68.4	66.2	13.8		3.30
	Heptachlor Epoxide	89.4	83.5	88.3	86.0	6.89		2.65
	Hexachlorobenzene	77.0	68.0	69.6	68.3	12.4		1.96
	Hexazinone	93.2	98.2	90.7	109	5.22		18.3
	Imazalil	84.2	95.9	84.5	109	12.9		25.1
	Lambda-Cyhalothrin	104	92.2	110	111	11.8		0.886
	Malathion	94.6	110	101	110	15.4		8.28
	Metalaxyl	89.7	98.5	84.4	125	9.27		28.6
	Methoxychlor	111	102	105	107	8.23		1.78
	Metolachlor	88.6	97.0	89.7	121	9.04		28.4
	Metribuzin	94.2	106	77.3	101	11.3		26.7
	Mevinphos	71.9	83.4	77.7	89.1	14.8		13.7
	Mirex	81.5	73.8	76.5	71.1	10.0		7.33
	Molinate	68.5	76.3	76.2	94.1	10.8		21.1
	Naled	69.8	71.3	78.3	60.9	2.22		25.0
	Norflurazon	86.1	93.5			8.21		19.9
	Oxadiazon	83.2	89.2	70.6	102	6.86		27.7
	Parathion Ethyl	77.9	96.4	88.5	98.6	21.2		10.7
	Parathion Methyl	86.8	98.6	90.8	100	12.7		9.77
	Pendimethalin	83.9	94.8	97.8	117	12.1		18.2
	Permethrin	90.9	84.5	88.1	86.4	7.31		2.02

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision		
						LCS	SMP	MS
EPA 8270E	Phenothrin	75.0	56.6	73.7	63.0	27.9		15.7
	Phorate	70.7	79.2	84.6	122	11.4		36.3
	Prallethrin	65.3	55.4	69.0	62.1	16.4		10.6
	Prodiamine	55.1	56.8	70.7	85.5	3.05		19.0
	Prometon	87.0	96.8	77.9	88.2	10.6		12.4
	Prometryn	91.0	99.6	88.6	117	9.03		27.7
	Pronamide	93.2	100	124	126	7.03		2.15
	Propiconazole	84.4	91.6	94.0	118	8.19		22.7
	Simazine	81.7	95.5	80.6	101	15.6		14.5
	Sulfentrazone	86.8	92.9	80.8	69.6	6.81		14.9
	Tebuconazole	61.2	62.6	39.1	46.5	2.31		17.2
	Terbufos	82.8	97.2	91.5	106	16.0		14.4
	Terbuthylazine	91.4	101	93.1	113	9.89		19.2
	Trans-Nonachlor	76.8	74.9	72.6	65.1	2.44		10.9
	Trifluralin	81.2	77.2	79.9	76.2	5.08		4.71
EPA 8276	Chlordane	104	105	93.2	97.5	0.577		4.47
	Toxaphene	99.6	95.5	103	106	4.20		3.59
EPA 8321B	2,4-D	115		112	108			3.11
	3-Hydroxycarbofuran	75.3		65.3	67.2			2.78
	Acesulfame K	63.0		70.0	70.2			0.199
	Acetaminophen	82.2		96.7	88.8			8.48
	Acetamiprid	71.7		80.6	74.1			8.42
	Afidopyropen	58.2		51.6	51.3			0.549
	Aldicarb	59.1		52.8	73.6			32.9
	Aldicarb Sulfone	82.3		76.8	80.3			4.45
	Aldicarb Sulfoxide	88.6		35.5	36.0			1.44
	AMPA	94.4		93.4	99.2			6.10
	Bentazon	61.8		54.6	48.0			13.0
	Benzovindiflupyr	67.6		70.2	72.0			2.64
	Carbamazepine	64.2		67.4	64.7			4.07
	Carbaryl	45.7		40.5	39.4			2.84
	Carbofuran	46.1		40.7	40.7			0.0986
	Clothianidin	88.3		96.7	87.6			9.84
	Dinotefuran	94.8		106	98.9			6.54
	Diuron	54.8		59.5	53.9			9.84
	Endothall	99.5		94.0	96.0			2.17
	Fenuron	89.4		88.6	83.2			6.22
	Fluridone	73.6		85.5	83.5			2.43
	Glufosinate	95.9		88.4	103			15.6
	Glyphosate	79.2		69.3	72.4			4.35
	Hydrocodone	83.2		87.0	85.0			2.43
	Ibuprofen	75.1		79.6	72.4			9.60
	Imazapyr	70.3		102	71.9			29.1
	Imidacloprid	101		131	98.3			28.4
	Linuron	62.7		67.6	57.5			16.1
	Mandestrobin	78.2		82.4	75.9			8.22
	MCPP	123		121	112			7.98
	Methiocarb	56.3		44.3	48.9			9.82
	Methomyl	87.1		75.1	75.0			0.200
	Naproxen	62.8		74.2	88.0			16.9
	Oxamyl	88.6		79.7	82.1			2.91
	Primidone	83.1		93.1	83.3			11.2
	Propoxur	48.9		42.5	41.8			1.61
	Pyraclostrobin	66.4		75.3	68.5			9.47

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Sucralose	93.9	92.6	91.6			1.04
	Thiamethoxam	86.9	105	96.9			7.73
	Tolfenpyrad	43.2	47.0	42.0			11.3
	Triclopyr	107	110	96.8			12.7
SM 2120 B-2011	Color (true)	99.0				2.47	
SM 2320 B-2011	Total Alkalinity	98.9				0.814	
SM 2540 C-2011	TDS					4.43	
	TDS					3.12	
SM 4500 F-C-2011	Fluoride	101	98.3	99.7			0.457
SM 5310 B-2011	Organic Carbon	96.6	95.9	97.9			1.71

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2190808, 2190809, 2190814, 2190817
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2190879, 2190880, 2190881, 2190882
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2190879, 2190880, 2190881, 2190882
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2190808, 2190809, 2190814, 2190817
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2190808, 2190809, 2190814, 2190817
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2190810, 2190811, 2190815, 2190818
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2190810, 2190811, 2190815, 2190818
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2190810, 2190811, 2190815, 2190818
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2190810, 2190811, 2190815, 2190818
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2190812, 2190813, 2190816, 2190819
EPA 8270E	Organochlorine pesticides in water matrices by GC/MS-SIM	2190868, 2190869, 2190872
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2190870, 2190871, 2190873
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2190868, 2190869, 2190872
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2190858, 2190859, 2190863
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2190860, 2190861, 2190862, 2190864
EPA 8321B	Water soluble organic compounds by HPLC/MS/MS	2190860, 2190861, 2190862, 2190864
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2190808, 2190809, 2190814, 2190817
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2190808, 2190809, 2190814, 2190817
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2190808, 2190809, 2190814, 2190817
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2190808, 2190809, 2190814, 2190817
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2190808, 2190809, 2190814, 2190817
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2190810, 2190811, 2190815, 2190818

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	08/18/2020			08/18/2020 15:27	Yen Ta	2190808, 2190809, 2190814, 2190817
EPA 200.7 Rev. 4.4	08/18/2020	08/18/2020 12:37	Elliott D. Healy	08/19/2020 16:08	Betina Topolski	2190882
	08/18/2020	08/18/2020 12:37	Elliott D. Healy	08/19/2020 19:47	Betina Topolski	2190879
	08/18/2020	08/18/2020 12:37	Elliott D. Healy	08/19/2020 19:55	Betina Topolski	2190880
	08/18/2020	08/18/2020 12:37	Elliott D. Healy	08/19/2020 20:03	Betina Topolski	2190881
EPA 200.8 Rev. 5.4	08/18/2020	08/18/2020 12:37	Elliott D. Healy	08/21/2020 16:37	Alexander Thompson	2190882
	08/18/2020	08/18/2020 12:37	Elliott D. Healy	08/21/2020 19:47	Alexander Thompson	2190879
	08/18/2020	08/18/2020 12:37	Elliott D. Healy	08/21/2020 19:54	Alexander Thompson	2190880
	08/18/2020	08/18/2020 12:37	Elliott D. Healy	08/21/2020 20:02	Alexander Thompson	2190881
	08/18/2020	08/18/2020 12:37	Elliott D. Healy	08/24/2020 12:53	Alexander Thompson	2190882
	08/18/2020	08/18/2020 12:37	Elliott D. Healy	08/24/2020 14:47	Alexander Thompson	2190879
	08/18/2020	08/18/2020 12:37	Elliott D. Healy	08/24/2020 14:51	Alexander Thompson	2190880
	08/18/2020	08/18/2020 12:37	Elliott D. Healy	08/24/2020 14:56	Alexander Thompson	2190881
EPA 300.0 Rev. 2.1	08/18/2020			08/20/2020 20:17	Julia Storbeck	2190808
	08/18/2020			08/20/2020 22:18	Julia Storbeck	2190809
	08/18/2020			08/20/2020 22:30	Julia Storbeck	2190814
	08/18/2020			08/20/2020 22:42	Julia Storbeck	2190817
	08/18/2020			08/21/2020 18:17	Julia Storbeck	2190808
EPA 350.1 Rev. 2.0	08/18/2020			08/22/2020 13:20	Ping Hua	2190810
	08/18/2020			08/22/2020 13:21	Ping Hua	2190811
	08/18/2020			08/22/2020 13:22	Ping Hua	2190815
	08/18/2020			08/22/2020 13:26	Ping Hua	2190818
EPA 351.2 Rev. 2.0	08/18/2020	08/20/2020 11:10	Sima Feizi	08/21/2020 13:09	Jhamieka S. Greenwood	2190818
	08/18/2020	08/20/2020 11:10	Sima Feizi	08/21/2020 13:27	Jhamieka S. Greenwood	2190810
	08/18/2020	08/20/2020 11:10	Sima Feizi	08/21/2020 13:28	Jhamieka S. Greenwood	2190811
	08/18/2020	08/20/2020 11:10	Sima Feizi	08/21/2020 13:30	Jhamieka S. Greenwood	2190815
EPA 353.2 Rev. 2.0	08/18/2020			08/20/2020 09:28	Beverly Y. Sanders	2190810
	08/18/2020			08/20/2020 09:32	Beverly Y. Sanders	2190818
	08/18/2020			08/20/2020 10:40	Beverly Y. Sanders	2190811
	08/18/2020			08/20/2020 10:41	Beverly Y. Sanders	2190815
EPA 365.1 Rev. 2.0	08/18/2020	08/19/2020 13:04	Yen Ta	08/20/2020 14:04	Benjamin T. Nordmann	2190810
	08/18/2020	08/19/2020 13:04	Yen Ta	08/20/2020 14:05	Benjamin T. Nordmann	2190811
	08/18/2020	08/19/2020 13:04	Yen Ta	08/20/2020 14:27	Benjamin T. Nordmann	2190815
	08/18/2020	08/19/2020 13:04	Yen Ta	08/21/2020 08:26	Lipi Saha	2190818
EPA 365.1 Rev. 2.0 dissolved	08/18/2020			08/18/2020 16:12	Samantha Davila	2190819
	08/18/2020			08/18/2020 17:09	Samantha Davila	2190812
	08/18/2020			08/18/2020 17:10	Samantha Davila	2190813
	08/18/2020			08/18/2020 17:11	Samantha Davila	2190816
EPA 8270E	08/18/2020	08/19/2020 08:00	Fe-Val Siddell	08/21/2020 03:23	Michael Poppell	2190868
	08/18/2020	08/19/2020 08:00	Fe-Val Siddell	08/21/2020 03:55	Michael Poppell	2190869

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8270E	08/18/2020	08/19/2020 08:00	Fe-Val Siddell	08/21/2020 04:27	Michael Poppell	2190872
	08/18/2020	08/24/2020 08:30	Rasheda Ghaffari	08/26/2020 16:23	Vandana T. Nagar	2190870
	08/18/2020	08/24/2020 08:30	Rasheda Ghaffari	08/26/2020 16:47	Vandana T. Nagar	2190871
	08/18/2020	08/24/2020 08:30	Rasheda Ghaffari	08/26/2020 17:12	Vandana T. Nagar	2190873
	08/18/2020	08/24/2020 08:30	Rasheda Ghaffari	09/01/2020 19:42	Vandana T. Nagar	2190870
	08/18/2020	08/24/2020 08:30	Rasheda Ghaffari	09/01/2020 20:31	Vandana T. Nagar	2190871
EPA 8276	08/18/2020	08/19/2020 08:00	Fe-Val Siddell	08/22/2020 09:19	Arthur Maknenko	2190868
	08/18/2020	08/19/2020 08:00	Fe-Val Siddell	08/22/2020 10:14	Arthur Maknenko	2190869
	08/18/2020	08/19/2020 08:00	Fe-Val Siddell	08/22/2020 11:10	Arthur Maknenko	2190872
EPA 8321B	08/18/2020	08/18/2020 13:00	Hoor Shaik	08/19/2020 09:55	Juyoung Kim	2190858
	08/18/2020	08/18/2020 13:00	Hoor Shaik	08/19/2020 10:29	Juyoung Kim	2190859
	08/18/2020	08/18/2020 13:00	Hoor Shaik	08/19/2020 11:04	Juyoung Kim	2190863
	08/18/2020	08/19/2020 11:30	Rebecca Ware	08/19/2020 14:03	Rebecca Ware	2190860
	08/18/2020	08/19/2020 11:30	Rebecca Ware	08/19/2020 14:14	Rebecca Ware	2190861
	08/18/2020	08/19/2020 11:30	Rebecca Ware	08/19/2020 14:25	Rebecca Ware	2190862
	08/18/2020	08/19/2020 11:30	Rebecca Ware	08/19/2020 14:36	Rebecca Ware	2190864
	08/18/2020	08/19/2020 11:30	Rebecca Ware	08/20/2020 13:46	Rebecca Ware	2190860
	08/18/2020	08/19/2020 11:30	Rebecca Ware	08/20/2020 14:00	Rebecca Ware	2190861
	08/18/2020	08/19/2020 11:30	Rebecca Ware	08/20/2020 14:14	Rebecca Ware	2190862
	08/18/2020	08/19/2020 11:30	Rebecca Ware	08/20/2020 14:28	Rebecca Ware	2190864
	08/18/2020	08/19/2020 11:30	Rebecca Ware	08/21/2020 19:13	Rebecca Ware	2190864
	08/18/2020	08/19/2020 11:30	Rebecca Ware	08/21/2020 21:45	Rebecca Ware	2190860
	08/18/2020	08/19/2020 11:30	Rebecca Ware	08/21/2020 21:57	Rebecca Ware	2190861
	08/18/2020	08/19/2020 11:30	Rebecca Ware	08/21/2020 22:09	Rebecca Ware	2190862
	08/18/2020	08/20/2020 09:00	Hoor Shaik	08/21/2020 07:48	Juyoung Kim	2190860
	08/18/2020	08/20/2020 09:00	Hoor Shaik	08/21/2020 08:23	Juyoung Kim	2190861
	08/18/2020	08/20/2020 09:00	Hoor Shaik	08/21/2020 09:32	Juyoung Kim	2190862
	08/18/2020	08/20/2020 09:00	Hoor Shaik	08/21/2020 10:07	Juyoung Kim	2190864
	08/18/2020	08/20/2020 09:00	Hoor Shaik	08/21/2020 14:09	Juyoung Kim	2190861
	08/18/2020	08/20/2020 09:00	Hoor Shaik	08/21/2020 15:19	Juyoung Kim	2190862
SM 2120 B-2011	08/18/2020			08/18/2020 16:06	Benjamin T. Nordmann	2190814, 2190817
	08/18/2020			08/18/2020 16:27	Benjamin T. Nordmann	2190808
	08/18/2020			08/18/2020 16:28	Benjamin T. Nordmann	2190809
SM 2320 B-2011	08/18/2020			08/19/2020 22:39	Dale L. Simmons	2190808
	08/18/2020			08/19/2020 22:52	Dale L. Simmons	2190809
	08/18/2020			08/19/2020 23:40	Dale L. Simmons	2190814
	08/18/2020			08/19/2020 23:49	Dale L. Simmons	2190817
SM 2540 C-2011	08/18/2020			08/19/2020 15:39	Yijie Li	2190808, 2190809, 2190814, 2190817
SM 2540 D-2011	08/18/2020			08/19/2020 15:39	Yijie Li	2190808, 2190809, 2190814, 2190817
SM 4500 F-C-2011	08/18/2020			08/19/2020 22:39	Dale L. Simmons	2190808

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 4500 F-C-2011	08/18/2020			08/19/2020 22:52	Dale L. Simmons	2190809
	08/18/2020			08/19/2020 23:40	Dale L. Simmons	2190814
	08/18/2020			08/19/2020 23:49	Dale L. Simmons	2190817
SM 5310 B-2011	08/18/2020			08/20/2020 01:55	David Boose	2190810
	08/18/2020			08/20/2020 02:09	David Boose	2190811
	08/18/2020			08/20/2020 02:22	David Boose	2190815
	08/18/2020			08/20/2020 02:36	David Boose	2190818