

Chemical Analysis Report

SO-DIST-2020-10-16-01

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

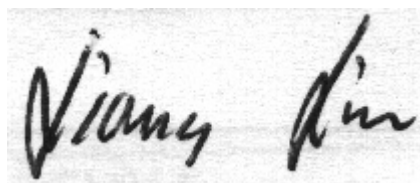
Event Description: **Joshua creek**
Request ID: **RQ-2020-10-12-22**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901-3381
Attn: Nicole Reistad

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 06-NOV-2020 14:35

A handwritten signature in black ink, appearing to read "Liang Lin", on a light-colored background.

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: Joshua Creek Above Peace River

Collection Date/Time: 10/15/2020 10:25

Field ID: G3SD0159

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2202900	EPA 180.1 Rev. 2.0	Turbidity	9.3	A	NTU	P388815	
	EPA 300.0 Rev. 2.1	Chloride	72		mg Cl/L	P389333	
		Sulfate	70		mg SO4/L	P389336	
	SM 2120 B-2011	Color (true)	230		PCU	P388797	
	SM 2320 B-2011	Total Alkalinity	77		mg CaCO3/L	P389112	
	SM 2540 C-2011	TDS	369	A	mg/L	P389380	
	SM 2540 D-2011	TSS	32	A	mg/L	P389308	
	SM 4500 F-C-2011	Fluoride	0.30		mg F/L	P389117	
2202901	EPA 350.1 Rev. 2.0	Ammonia-N	0.062		mg N/L	P388848	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P389091	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.53		mg N/L	P389015	
	EPA 365.1 Rev. 2.0	Total-P	0.44		mg P/L	P389172	
	SM 5310 B-2011	Organic Carbon	22		mg C/L	P388948	
2202902	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.27		mg P/L	P388821	
2202904	EPA 8321B	Aldicarb	0.020	U	ug/L	P388916	MS
		Aldicarb Sulfone	0.0020	U	ug/L	P388916	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P388916	MS
		Carbaryl	0.0020	U	ug/L	P388916	MS
		Carbofuran	0.0020	U	ug/L	P388916	MS
		3-Hydroxycarbofuran	0.0020	U	ug/L	P388916	
		Methiocarb	0.0020	U	ug/L	P388916	
		Methomyl	0.0020	U	ug/L	P388916	
		Oxamyl	0.0020	U	ug/L	P388916	
		Propoxur	0.0020	U	ug/L	P388916	MS
2202905		2,4-D	0.017		ug/L	P388895	
		Acesulfame K**	0.10	U	ug/L	P388857	
		AMPA**	1.4		ug/L	P388857	
		Sucralose**	0.15		ug/L	P388857	
		Acetaminophen**	0.0080	U	ug/L	P388895	
		Acetamiprid**	0.0020	U	ug/L	P388895	
		Endothall**	0.25	U	ug/L	P388857	
		Glufosinate**	0.10	U	ug/L	P388857	
		Glyphosate**	1.4		ug/L	P388857	
		Afidopyropen**	0.0020	U	ug/L	P388895	
		Bentazon	0.0011	I	ug/L	P388895	MS
		Benzovindiflupyr**	0.0020	U	ug/L	P388895	
		Carbamazepine**	8.0E-04	U	ug/L	P388895	
		Clothianidin**	0.062		ug/L	P388895	
		Dinotefuran**	0.0021	I	ug/L	P388895	
		Diuron	0.0094		ug/L	P388895	MS, RPD
		Fenuron	0.016	U	ug/L	P388895	
		Fluridone**	8.0E-04	U	ug/L	P388895	
		Imazapyr**	0.021		ug/L	P388895	MS

Field ID: G3SD0159

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2202905	EPA 8321B	Hydrocodone**	0.0020	U	ug/L	P388895	
		Ibuprofen**	0.020	U	ug/L	P388895	
		Imidacloprid	0.30		ug/L	P388895	
		Linuron	0.0040	U	ug/L	P388895	
		Mandestrobin**	0.0020	U	ug/L	P388895	
		MCP	0.0020	U	ug/L	P388895	
		Naproxen**	0.0080	U	ug/L	P388895	MS
		Primidone**	0.0040	U	ug/L	P388895	RPD
		Pyraclostrobin**	0.0020	U	ug/L	P388895	
		Thiamethoxam**	0.15		ug/L	P388895	
		Tolfenpyrad**	0.0020	U	ug/L	P388895	
		Triclopyr**	0.0040	U	ug/L	P388895	
2202908	EPA 8270E	Aldrin	4.4	U	ng/L	P389028	
		Alpha-BHC	2.2	U	ng/L	P389028	
		Alpha-Chlordane	1.1	U	ng/L	P389028	
		Beta-BHC	8.9	U	ng/L	P389028	
		Beta-Cyfluthrin**	17	UJ	ng/L	P389028	CCV
		Bifenthrin**	4.4	U	ng/L	P389028	
		Delta-BHC	8.9	U	ng/L	P389028	
		Gamma-BHC	8.9	U	ng/L	P389028	
		Chlorothalonil	2.2	U	ng/L	P389028	RPD
		Cis-Nonachlor**	1.1	U	ng/L	P389028	
		Cypermethrin	22	U	ng/L	P389028	
		Dacthal**	1.1	U	ng/L	P389028	
		DDD-p,p'	5.6	U	ng/L	P389028	
		DDE-p,p'	5.6	U	ng/L	P389028	
		DDT-p,p'	6.7	U	ng/L	P389028	
		Deltamethrin**	22	U	ng/L	P389028	
		Dicofol	33	U	ng/L	P389028	
		Dieldrin	4.4	U	ng/L	P389028	
		Endosulfan I	4.4	U	ng/L	P389028	
		Endosulfan II	4.4	U	ng/L	P389028	
		Endosulfan Sulfate	2.2	U	ng/L	P389028	
		Endrin	2.2	U	ng/L	P389028	
		Endrin Aldehyde	2.2	U	ng/L	P389028	
		Endrin Ketone	2.2	U	ng/L	P389028	
		Ethalfuralin**	3.3	U	ng/L	P389028	
		Gamma-Chlordane	1.1	U	ng/L	P389028	
		Dichlobenil**	2.2	U	ng/L	P389028	
		Esfenvalerate**	22	U	ng/L	P389028	
		Fenprothrin**	11	U	ng/L	P389028	
		Heptachlor	1.7	U	ng/L	P389028	
		Heptachlor Epoxide	2.2	U	ng/L	P389028	
		Hexachlorobenzene	2.2	U	ng/L	P389028	
		Lambda-Cyhalothrin**	17	U	ng/L	P389028	

Field ID: G3SD0159

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2202908	EPA 8270E	Methoxychlor	4.4	U	ng/L	P389028	
		Mirex	2.2	U	ng/L	P389028	
		MGK-264**	3.3	UJ	ng/L	P389028	LCS
		Permethrin	11	U	ng/L	P389028	
		Phenothrin**	33	U	ng/L	P389028	
		Piperonyl Butoxide**	1.7	U	ng/L	P389028	
		Prallethrin**	28	U	ng/L	P389028	
		Tau-Fluvalinate**	3.9	U	ng/L	P389028	
		Tetramethrin**	8.9	UJ	ng/L	P389028	LCS
		Trans-Nonachlor**	1.1	U	ng/L	P389028	
		Triclosan Methyl**	1.1	U	ng/L	P389028	
		Trifluralin	2.8	U	ng/L	P389028	
		Chlordane	5.6	U	ng/L	P389028	
		Toxaphene	33	U	ng/L	P389028	
2202909	EPA 8270E	Acetochlor	0.26	U	ng/L	P388720	
		Alachlor	0.26	U	ng/L	P388720	
		Ametryn	0.62	U	ng/L	P388720	
		Atrazine	0.41	I	ng/L	P388720	
		Atrazine Desethyl	1.5	U	ng/L	P388720	
		Azinphos Methyl	2.1	U	ng/L	P388720	
		Bromacil	470		ng/L	P388720	
		Butylate	0.41	U	ng/L	P388720	
		Carbophenothion	0.52	U	ng/L	P388720	
		Chlorpyrifos Ethyl	0.54	I	ng/L	P388720	
		Chlorpyrifos Methyl	0.052	U	ng/L	P388720	
		Cyanazine	3.4	U	ng/L	P388720	
		Demeton	1.5	U	ng/L	P388720	
		Diazinon	0.13	U	ng/L	P388720	
		Dimethenamid**	0.10	U	ng/L	P388720	
		Disulfoton	0.52	U	ng/L	P388720	
		Dithiopyr**	0.10	U	ng/L	P388720	
		EPTC	1.3	U	ng/L	P388720	
		Ethion	0.15	U	ng/L	P388720	
		Ethoprop	0.10	U	ng/L	P388720	
		Fenamiphos	0.52	U	ng/L	P388720	
		Fipronil	0.26	U	ng/L	P388720	
		Fipronil Desulfinyll**	0.13	U	ng/L	P388720	
		Fipronil Sulfide	0.15	U	ng/L	P388720	
		Fipronil Sulfone	0.15	U	ng/L	P388720	
		Flumioxazin**	1.8	U	ng/L	P388720	
		Fonofos	0.21	U	ng/L	P388720	
		Hexazinone	130		ng/L	P388720	
		Imazalil**	0.77	U	ng/L	P388720	
		Malathion	0.36	U	ng/L	P388720	
		Metalaxyl	24		ng/L	P388720	

Field ID: G3SD0159

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2202909	EPA 8270E	Metolachlor	5.4		ng/L	P388720	
		Metribuzin	3.4	U	ng/L	P388720	
		Mevinphos	0.52	U	ng/L	P388720	
		Molinate	0.31	U	ng/L	P388720	
		Naled**	1.5	U	ng/L	P388720	
		Norflurazon	680		ng/L	P388720	
		Oxadiazon	0.12	I	ng/L	P388720	
		Parathion Ethyl	0.26	U	ng/L	P388720	
		Parathion Methyl	0.57	U	ng/L	P388720	
		Pendimethalin	1.0	U	ng/L	P388720	
		Phorate	0.26	U	ng/L	P388720	
		Prodiamine**	0.18	UJ	ng/L	P388720	RPD
		Prometon	0.93	U	ng/L	P388720	
		Prometryn	0.21	U	ng/L	P388720	
		Pronamide**	0.15	U	ng/L	P388720	
		Propiconazole**	0.52	U	ng/L	P388720	
		Simazine	0.52	UJ	ng/L	P388720	LCS
		Sulfentrazone**	7.1		ng/L	P388720	
		Tebuconazole**	0.52	U	ng/L	P388720	
		Terbufos	0.10	U	ng/L	P388720	
		Terbuthylazine	0.44	U	ng/L	P388720	
2202912	EPA 200.7 Rev. 4.4	Barium	33.8		ug/L	P388890	
		Calcium	52.9		mg/L	P388890	
		Iron	2.66E+03		ug/L	P388890	
		Magnesium	15.6		mg/L	P388890	
		Potassium	9.1		mg/L	P388890	
		Sodium	31.2		mg/L	P388890	
		Zinc	9.7	I	ug/L	P388890	
	EPA 200.8 Rev. 5.4	Aluminum	766		ug/L	P388890	
		Antimony	0.31		ug/L	P388890	
		Arsenic	1.87		ug/L	P388890	
		Beryllium	0.058		ug/L	P388890	
		Boron**	56.7		ug/L	P388890	
		Cadmium	0.198		ug/L	P388890	
		Chromium	2.1		ug/L	P388890	
		Copper	1.62		ug/L	P388890	
		Lead	0.89		ug/L	P388890	
		Nickel	1.4	I	ug/L	P388890	
		Selenium	0.33	I	ug/L	P388890	
		Silver	0.010	U	ug/L	P388890	
		Thallium	0.10	U	ug/L	P388890	

Ref. Method and Comment:

EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

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

Sample Location: Field Blank

Collection Date/Time: 10/15/2020 12:25

Field ID: FB101520

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2202906	EPA 8321B	Aldicarb	0.020	U	ug/L	P388916	MS
		Aldicarb Sulfone	0.0020	U	ug/L	P388916	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P388916	MS
		Carbaryl	0.0020	U	ug/L	P388916	MS
		Carbofuran	0.0020	U	ug/L	P388916	MS
		3-Hydroxycarbofuran	0.0020	U	ug/L	P388916	
		Methiocarb	0.0020	U	ug/L	P388916	
		Methomyl	0.0020	U	ug/L	P388916	
		Oxamyl	0.0020	U	ug/L	P388916	
		Propoxur	0.0020	U	ug/L	P388916	MS
2202907		2,4-D	0.0020	U	ug/L	P388895	
		Acesulfame K**	0.10	U	ug/L	P388857	
		AMPA**	0.10	U	ug/L	P388857	
		Sucralose**	0.010	U	ug/L	P388857	
		Acetaminophen**	0.0080	U	ug/L	P388895	
		Acetamiprid**	0.0020	U	ug/L	P388895	
		Endothall**	0.25	U	ug/L	P388857	
		Glufosinate**	0.10	U	ug/L	P388857	
		Glyphosate**	0.10	U	ug/L	P388857	
		Afidopyropen**	0.0020	U	ug/L	P388895	
		Bentazon	8.0E-04	U	ug/L	P388895	MS
		Benzovindiflupyr**	0.0020	U	ug/L	P388895	
		Carbamazepine**	8.0E-04	U	ug/L	P388895	
		Clothianidin**	0.0020	U	ug/L	P388895	
		Dinotefuran**	0.0020	U	ug/L	P388895	
		Diuron	0.0020	U	ug/L	P388895	MS, RPD
		Fenuron	0.016	U	ug/L	P388895	
		Fluridone**	8.0E-04	U	ug/L	P388895	
		Imazapyr**	0.0040	U	ug/L	P388895	MS
		Hydrocodone**	0.0020	U	ug/L	P388895	
		Ibuprofen**	0.020	U	ug/L	P388895	
		Imidacloprid	0.0020	U	ug/L	P388895	
		Linuron	0.0040	U	ug/L	P388895	
		Mandestrobin**	0.0020	U	ug/L	P388895	
		MCPP	0.0020	U	ug/L	P388895	
		Naproxen**	0.0080	U	ug/L	P388895	MS
		Primidone**	0.0040	U	ug/L	P388895	RPD
		Pyraclostrobin**	0.0020	U	ug/L	P388895	
		Thiamethoxam**	0.0020	U	ug/L	P388895	
		Tolfenpyrad**	0.0020	U	ug/L	P388895	
		Triclopyr**	0.0040	U	ug/L	P388895	
2202910	EPA 8270E	Aldrin	4.3	U	ng/L	P389028	
		Alpha-BHC	2.2	U	ng/L	P389028	
		Alpha-Chlordane	1.1	U	ng/L	P389028	

Field ID: FB101520

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2202910	EPA 8270E	Beta-BHC	8.6	U	ng/L	P389028	
		Beta-Cyfluthrin**	16	UJ	ng/L	P389028	CCV
		Bifenthrin**	4.3	U	ng/L	P389028	
		Delta-BHC	8.6	U	ng/L	P389028	
		Gamma-BHC	8.6	U	ng/L	P389028	
		Chlorothalonil	2.2	U	ng/L	P389028	RPD
		Cis-Nonachlor**	1.1	U	ng/L	P389028	
		Cypermethrin	22	U	ng/L	P389028	
		Dacthal**	1.1	U	ng/L	P389028	
		DDD-p,p'	5.4	U	ng/L	P389028	
		DDE-p,p'	5.4	U	ng/L	P389028	
		DDT-p,p'	6.5	U	ng/L	P389028	
		Deltamethrin**	22	U	ng/L	P389028	
		Dicofol	32	U	ng/L	P389028	
		Dieldrin	4.3	U	ng/L	P389028	
		Endosulfan I	4.3	U	ng/L	P389028	
		Endosulfan II	4.3	U	ng/L	P389028	
		Endosulfan Sulfate	2.2	U	ng/L	P389028	
		Endrin	2.2	U	ng/L	P389028	
		Endrin Aldehyde	2.2	U	ng/L	P389028	
		Endrin Ketone	2.2	U	ng/L	P389028	
		Ethalfuralin**	3.2	U	ng/L	P389028	
		Gamma-Chlordane	1.1	U	ng/L	P389028	
		Dichlobenil**	2.2	U	ng/L	P389028	
		Esfenvalerate**	22	U	ng/L	P389028	
		Fenpropathrin**	11	U	ng/L	P389028	
		Heptachlor	1.6	U	ng/L	P389028	
		Heptachlor Epoxide	2.2	U	ng/L	P389028	
		Hexachlorobenzene	2.2	U	ng/L	P389028	
		Lambda-Cyhalothrin**	16	U	ng/L	P389028	
		Methoxychlor	4.3	U	ng/L	P389028	
		Mirex	2.2	U	ng/L	P389028	
		MGK-264**	3.2	UJ	ng/L	P389028	LCS
		Permethrin	11	U	ng/L	P389028	
		Phenothrin**	32	U	ng/L	P389028	
		Piperonyl Butoxide**	1.6	U	ng/L	P389028	
		Prallethrin**	27	U	ng/L	P389028	
		Tau-Fluvalinate**	3.8	U	ng/L	P389028	
		Tetramethrin**	8.6	UJ	ng/L	P389028	LCS
		Trans-Nonachlor**	1.1	U	ng/L	P389028	
		Triclosan Methyl**	1.1	U	ng/L	P389028	
		Trifluralin	2.7	U	ng/L	P389028	
	EPA 8276	Chlordane	5.4	U	ng/L	P389028	
		Toxaphene	32	U	ng/L	P389028	
2202911	EPA 8270E	Acetochlor	0.25	U	ng/L	P388720	

Field ID: FB101520

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2202911	EPA 8270E	Alachlor	0.25	U	ng/L	P388720	
		Ametryn	0.59	U	ng/L	P388720	
		Atrazine	0.25	U	ng/L	P388720	
		Atrazine Desethyl	1.5	U	ng/L	P388720	
		Azinphos Methyl	2.0	U	ng/L	P388720	
		Bromacil	0.49	U	ng/L	P388720	
		Butylate	0.39	U	ng/L	P388720	
		Carbophenothion	0.49	U	ng/L	P388720	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P388720	
		Chlorpyrifos Methyl	0.049	U	ng/L	P388720	
		Cyanazine	3.2	U	ng/L	P388720	
		Demeton	1.5	U	ng/L	P388720	
		Diazinon	0.12	U	ng/L	P388720	
		Dimethenamid**	0.099	U	ng/L	P388720	
		Disulfoton	0.49	U	ng/L	P388720	
		Dithiopyr**	0.099	U	ng/L	P388720	
		EPTC	1.2	U	ng/L	P388720	
		Ethion	0.15	U	ng/L	P388720	
		Ethoprop	0.099	U	ng/L	P388720	
		Fenamiphos	0.49	U	ng/L	P388720	
		Fipronil	0.25	U	ng/L	P388720	
		Fipronil Desulfinyl**	0.12	U	ng/L	P388720	
		Fipronil Sulfide	0.15	U	ng/L	P388720	
		Fipronil Sulfone	0.15	U	ng/L	P388720	
		Flumioxazin**	1.7	U	ng/L	P388720	
		Fonofos	0.20	U	ng/L	P388720	
		Hexazinone	0.49	U	ng/L	P388720	
		Imazalil**	0.74	U	ng/L	P388720	
		Malathion	0.34	U	ng/L	P388720	
		Metalaxyl	0.74	U	ng/L	P388720	
		Metolachlor	0.49	U	ng/L	P388720	
		Metribuzin	3.2	U	ng/L	P388720	
		Mevinphos	0.49	U	ng/L	P388720	
		Molinate	0.30	U	ng/L	P388720	
		Naled**	1.5	U	ng/L	P388720	
		Norflurazon	0.49	U	ng/L	P388720	
		Oxadiazon	0.099	U	ng/L	P388720	
		Parathion Ethyl	0.25	U	ng/L	P388720	
		Parathion Methyl	0.54	U	ng/L	P388720	
		Pendimethalin	0.99	U	ng/L	P388720	
		Phorate	0.25	U	ng/L	P388720	
		Prodiamine**	0.17	UJ	ng/L	P388720	RPD
		Prometon	0.89	U	ng/L	P388720	
		Prometryn	0.20	U	ng/L	P388720	
		Pronamide**	0.15	U	ng/L	P388720	

Field ID: FB101520

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2202911	EPA 8270E	Propiconazole**	0.49	U	ng/L	P388720	LCS
		Simazine	0.49	UJ	ng/L	P388720	
		Sulfentrazone**	0.49	U	ng/L	P388720	
		Tebuconazole**	0.49	U	ng/L	P388720	
		Terbufos	0.099	U	ng/L	P388720	
		Terbuthylazine	0.42	U	ng/L	P388720	

Ref. Method and Comment:

EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P388815

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P388890

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: P388890

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: P389333

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P389336

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P388848

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P389091

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P389015

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P389172

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P388821

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

Reference Method: EPA 8270E
Batch ID: P388720

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P388720

Component	Result	Code	Units
Imazalil	0.75	U	ng/L
Malathion	0.35	U	ng/L
Metaxyl	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
Terbutylazine	0.42	U	ng/L

Reference Method: EPA 8270E
Batch ID: P389028

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
Dichlobenil	2.0	U	ng/L
Dicofol	30	U	ng/L
Dieldrin	4.0	U	ng/L
Endosulfan I	4.0	U	ng/L
Endosulfan II	4.0	U	ng/L
Endosulfan Sulfate	2.0	U	ng/L
Endrin	2.0	U	ng/L
Endrin Aldehyde	2.0	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
Batch ID: P389028

Component	Result	Code	Units
Endrin Ketone	2.0	U	ng/L
Esfenvalerate	20	U	ng/L
Ethalfuralin	3.0	U	ng/L
Fenpropathrin	10	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
MGK-264	3.0	U	ng/L
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Phenothrin	30	U	ng/L
Piperonyl Butoxide	1.5	U	ng/L
Prallethrin	25	U	ng/L
Tau-Fluvalinate	3.5	U	ng/L
Tetramethrin	8.0	U	ng/L
Trans-Nonachlor	1.0	U	ng/L
Triclosan Methyl	1.0	U	ng/L
Trifluralin	2.5	U	ng/L

Reference Method: EPA 8276
Batch ID: P389028

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

Reference Method: EPA 8321B
Batch ID: P388857

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: P388895

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
 Batch ID: P388895

Component	Result	Code	Units
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
 Batch ID: P388916

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: SM 2120 B-2011
 Batch ID: P388797

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
 Batch ID: P389112

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

Reference Method: SM 2540 C-2011
 Batch ID: P389380

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 D-2011
Batch ID: P389308

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P389117

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P388948

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: P388890

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	103		P	85 - 115
Calcium	105		P	85 - 115
Iron	105		P	85 - 115
Magnesium	105		P	85 - 115
Potassium	101		P	85 - 115
Sodium	105		P	85 - 115
Zinc	102		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P388890

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	106		P	85 - 115
Antimony	103		P	85 - 115
Arsenic	102		P	85 - 115
Beryllium	102		P	85 - 115
Boron	102		P	85 - 115
Cadmium	103		P	85 - 115
Chromium	97.9		P	85 - 115
Copper	97.3		P	85 - 115
Lead	96.3		P	85 - 115
Nickel	98.8		P	85 - 115
Selenium	96.7		P	85 - 115
Silver	96.9		P	85 - 115
Thallium	98.2		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P389333

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P389336

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P388848

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P389091

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P389015

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P389172

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P388821

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	97.6		P	90 - 110

Reference Method: EPA 8270E
 Batch ID: P388720

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	87.4	78.9	P/P	71 - 122
Alachlor	87.0	83.7	P/P	70 - 121
Ametryn	91.4	83.4	P/P	49 - 137
Atrazine	90.6	82.3	P/P	76 - 125
Atrazine Desethyl	71.8	69.5	P/P	31 - 144
Azinphos Methyl	97.9	82.2	P/P	67 - 150
Bromacil	56.5	50.0	P/P	36 - 121
Butylate	63.9	54.8	P/P	33 - 88.0
Carbophenothion	79.8	73.6	P/P	66 - 116
Chlorpyrifos Ethyl	84.1	74.6	P/P	73 - 117
Chlorpyrifos Methyl	90.0	81.7	P/P	68 - 121
Cyanazine	100	99.1	P/P	20 - 250
Demeton	81.1	71.5	P/P	30 - 123
Diazinon	83.8	77.3	P/P	70 - 128
Dimethenamid	81.9	77.6	P/P	66 - 122
Disulfoton	70.4	72.7	P/P	46 - 124
Dithiopyr	78.6	73.2	P/P	69 - 122
EPTC	60.6	53.8	P/P	31 - 90.0
Ethion	73.5	73.6	P/P	45 - 135
Ethoprop	82.6	73.2	P/P	59 - 118
Fenamiphos	75.6	80.5	P/P	30 - 136
Fipronil	84.0	80.6	P/P	57 - 127
Fipronil Desulfinyl	84.6	79.4	P/P	51 - 122
Fipronil Sulfide	76.6	66.6	P/P	57 - 119
Fipronil Sulfone	85.4	69.6	P/P	51 - 119
Flumioxazin	131	116	P/P	20 - 250
Fonofos	82.8	73.0	P/P	60 - 120
Hexazinone	79.1	72.8	P/P	57 - 142
Imazalil	79.3	71.2	P/P	30 - 139
Malathion	90.7	86.2	P/P	67 - 128
Metaxyl	87.8	81.5	P/P	21 - 148
Metolachlor	88.2	82.4	P/P	70 - 120
Metribuzin	92.1	82.3	P/P	20 - 250
Mevinphos	70.0	67.5	P/P	47 - 116

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P388720

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Molinate	74.2	63.2	P/P	41 - 99.0
Naled	50.3	45.2	P/P	38 - 97.0
Norflurazon	76.4	67.0	P/P	54 - 127
Oxadiazon	74.8	69.2	P/P	65 - 122
Parathion Ethyl	85.1	80.2	P/P	71 - 113
Parathion Methyl	91.6	79.9	P/P	73 - 129
Pendimethalin	72.8	66.0	P/P	63 - 130
Phorate	101	103	P/P	48 - 118
Prodiamine	76.8	36.8	P/P	20 - 144
Prometon	83.5	76.2	P/P	53 - 120
Prometryn	83.2	79.1	P/P	63 - 119
Pronamide	92.3	82.6	P/P	81 - 122
Propiconazole	71.0	66.5	P/P	62 - 124
Simazine	92.2	76.1	P/F	77 - 129
Sulfentrazone	62.7	59.1	P/P	20 - 137
Tebuconazole	41.4	44.0	P/P	20 - 118
Terbufos	80.1	72.6	P/P	61 - 119
Terbutylazine	90.2	84.7	P/P	75 - 119

Reference Method: EPA 8270E
Batch ID: P389028

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	30.8	30.6	P/P	20 - 87.0
Alpha-BHC	79.3	79.9	P/P	65 - 142
Alpha-Chlordane	72.4	71.7	P/P	58 - 106
Beta-BHC	105	105	P/P	65 - 179
Beta-Cyfluthrin	56.8	60.0	P/P	39 - 153
Bifenthrin	60.1	60.4	P/P	38 - 128
Chlorothalonil	26.2	26.8	P/P	20 - 214
Cis-Nonachlor	75.4	73.6	P/P	56 - 113
Cypermethrin	65.3	67.4	P/P	37 - 130
Dacthal	85.3	83.7	P/P	75 - 109
DDD-p,p'	80.9	78.5	P/P	66 - 119
DDE-p,p'	69.8	69.6	P/P	53 - 108
DDT-p,p'	71.3	72.1	P/P	57 - 133
Delta-BHC	128	123	P/P	68 - 187
Deltamethrin	77.2	77.3	P/P	50 - 200
Dichlobenil	76.4	74.2	P/P	25 - 140
Dicofol	111	103	P/P	66 - 123
Dieldrin	78.4	76.4	P/P	65 - 111
Endosulfan I	79.2	78.0	P/P	65 - 115
Endosulfan II	92.8	92.0	P/P	68 - 133
Endosulfan Sulfate	84.2	82.3	P/P	62 - 127
Endrin	81.2	79.3	P/P	64 - 122
Endrin Aldehyde	91.3	87.7	P/P	61 - 132
Endrin Ketone	85.7	85.2	P/P	66 - 120
Esfenvalerate	63.5	64.4	P/P	50 - 150
Ethalfuralin	65.2	67.8	P/P	57 - 127
Fenpropathrin	67.9	67.5	P/P	60 - 160
Gamma-BHC	101	99.7	P/P	71 - 158
Gamma-Chlordane	67.6	67.7	P/P	53 - 106

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P389028

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Heptachlor	60.6	61.1	P/P	45 - 96.0
Heptachlor Epoxide	78.5	77.6	P/P	64 - 109
Hexachlorobenzene	66.3	66.1	P/P	46 - 103
Lambda-Cyhalothrin	65.2	67.2	P/P	38 - 145
Methoxychlor	77.3	78.5	P/P	69 - 149
MGK-264	43.0	40.9	F/F	50 - 150
Mirex	55.2	55.8	P/P	31 - 90.0
Permethrin	61.1	62.3	P/P	41 - 108
Phenothrin	32.0	32.6	P/P	22 - 91.0
Piperonyl Butoxide	83.9	85.0	P/P	50 - 150
Prallethrin	43.0	43.4	P/P	32 - 92.0
Tau-Fluvalinate	75.1	75.1	P/P	50 - 150
Tetramethrin	52.4	54.0	F/F	60 - 160
Trans-Nonachlor	69.4	69.0	P/P	50 - 107
Triclosan Methyl	87.0	86.4	P/P	50 - 150
Trifluralin	66.4	66.2	P/P	58 - 119

Reference Method: EPA 8276
Batch ID: P389028

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	97.1	99.4	P/P	47 - 119
Toxaphene	74.7	81.2	P/P	41 - 112

Reference Method: EPA 8321B
Batch ID: P388857

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	69.4		P	40 - 150
AMPA	114		P	40 - 150
Endothall	109		P	40 - 150
Glufosinate	100		P	40 - 150
Glyphosate	104		P	40 - 140
Sucralose	116		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P388895

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	45.5		P	30 - 160
Acetaminophen	53.8		P	30 - 160
Acetamiprid	61.5		P	30 - 160
Afidopyropen	50.6		P	30 - 160
Bentazon	48.3		P	30 - 160
Benzovindiflupyr	65.0		P	30 - 160
Carbamazepine	63.9		P	30 - 160
Clothianidin	101		P	30 - 160
Dinotefuran	84.8		P	30 - 160
Diuron	70.2		P	30 - 160
Fenuron	100		P	30 - 160
Fluridone	83.0		P	30 - 160
Hydrocodone	79.0		P	30 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P388895

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ibuprofen	48.4		P	30 - 160
Imazapyr	52.0		P	30 - 160
Imidacloprid	77.2		P	30 - 160
Linuron	61.1		P	30 - 160
Mandestrobin	78.8		P	30 - 160
MCPP	58.1		P	30 - 160
Naproxen	45.5		P	30 - 160
Primidone	90.5		P	30 - 160
Pyraclostrobin	58.8		P	30 - 160
Thiamethoxam	85.6		P	30 - 160
Tolfenpyrad	38.6		P	30 - 160
Triclopyr	50.2		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P388916

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	79.7		P	30 - 160
Aldicarb	48.4		P	30 - 160
Aldicarb Sulfone	83.1		P	30 - 160
Aldicarb Sulfoxide	89.1		P	30 - 160
Carbaryl	63.1		P	30 - 160
Carbofuran	53.5		P	30 - 160
Methiocarb	80.9		P	30 - 160
Methomyl	89.2		P	30 - 160
Oxamyl	88.7		P	30 - 160
Propoxur	50.7		P	30 - 160

Reference Method: SM 2120 B-2011
Batch ID: P388797

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.9		P	85 - 115

Reference Method: SM 2320 B-2011
Batch ID: P389112

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.7		P	93 - 104

Reference Method: SM 4500 F-C-2011
Batch ID: P389117

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.3		P	90 - 106

Reference Method: SM 5310 B-2011
Batch ID: P388948

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P388890

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2202129	Barium	102	99.6	P/P	80 - 120
2202129	Calcium	105		P	80 - 120
2202129	Iron	106	103	P/P	80 - 120
2202129	Magnesium	105	101	P/P	80 - 120
2202129	Potassium	102	97.4	P/P	80 - 120
2202129	Sodium	104	98.0	P/P	80 - 120
2202129	Zinc	102	98.2	P/P	80 - 120
2203019	Barium	102		P	80 - 120
2203019	Calcium	105		P	80 - 120
2203019	Iron	106		P	80 - 120
2203019	Magnesium	105		P	80 - 120
2203019	Potassium	100		P	80 - 120
2203019	Sodium	99.8		P	80 - 120
2203019	Zinc	100		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P388890

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2202129	Aluminum	106	103	P/P	80 - 120
2202129	Antimony	104	103	P/P	80 - 120
2202129	Arsenic	103	101	P/P	80 - 120
2202129	Beryllium	105	102	P/P	80 - 120
2202129	Boron	101	101	P/P	80 - 120
2202129	Cadmium	105	103	P/P	80 - 120
2202129	Chromium	102	99.7	P/P	80 - 120
2202129	Copper	98.6	96.5	P/P	80 - 120
2202129	Lead	97.4	95.6	P/P	80 - 120
2202129	Nickel	99.8	98.1	P/P	80 - 120
2202129	Selenium	99.2	97.6	P/P	80 - 120
2202129	Silver	98.5	98.2	P/P	80 - 120
2202129	Thallium	99.8	98.8	P/P	80 - 120
2203019	Aluminum	105		P	80 - 120
2203019	Antimony	105		P	80 - 120
2203019	Arsenic	103		P	80 - 120
2203019	Beryllium	109		P	80 - 120
2203019	Boron	104		P	80 - 120
2203019	Cadmium	104		P	80 - 120
2203019	Chromium	99.4		P	80 - 120
2203019	Copper	96.1		P	80 - 120
2203019	Lead	97.2		P	80 - 120
2203019	Nickel	98.1		P	80 - 120
2203019	Selenium	97.5		P	80 - 120
2203019	Silver	97.2		P	80 - 120
2203019	Thallium	99.6		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P389333

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2202412	Chloride	103		P	90 - 110
2202832	Chloride	102		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P389336

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2202412	Sulfate	103		P	90 - 110
2202832	Sulfate	103		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P388848

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2202927	Ammonia-N	101	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P389091

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2202962	Kjeldahl Nitrogen	107	108	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P389015

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2202928	NO2NO3-N	99.0	98.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P389172

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2202833	Total-P	107	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P388821

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2202796	O-Phosphate-P	97.9	97.4	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P388720

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2202161	Acetochlor	88.0	73.8	P/P	68 - 126
2202161	Alachlor	83.8	72.4	P/P	66 - 125
2202161	Atrazine Desethyl	64.2	48.3	P/P	13 - 161
2202161	Azinphos Methyl	88.2	76.1	P/P	54 - 162
2202161	Bromacil	61.0	48.0	P/P	34 - 144
2202161	Butylate	47.3	37.9	P/P	16 - 92.0
2202161	Carbophenothion	73.3	66.4	P/P	30 - 131
2202161	Chlorpyrifos Ethyl	87.9	72.5	P/P	63 - 124
2202161	Chlorpyrifos Methyl	87.6	75.3	P/P	64 - 125
2202161	Cyanazine	100	84.9	P/P	13 - 245
2202161	Demeton	83.4	74.3	P/P	20 - 154
2202161	Diazinon	86.5	74.6	P/P	66 - 141
2202161	Dimethenamid	80.6	70.7	P/P	50 - 130
2202161	Disulfoton	70.1	62.6	P/P	55 - 130
2202161	Dithiopyr	78.8	68.6	P/P	66 - 122

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P388720

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2202161	EPTC	45.8	34.0	P/P	15 - 93.0
2202161	Ethion	72.6	71.8	P/P	15 - 148
2202161	Ethoprop	83.6	69.5	P/P	59 - 126
2202161	Fenamiphos	43.4	44.7	P/P	39 - 137
2202161	Fipronil	84.2	72.9	P/P	47 - 131
2202161	Fipronil Desulfinyl	84.2	72.5	P/P	43 - 121
2202161	Fipronil Sulfide	72.6	58.7	P/P	29 - 134
2202161	Fipronil Sulfone	79.0	70.8	P/P	19 - 131
2202161	Flumioxazin	144	130	P/P	10 - 300
2202161	Fonofos	81.6	76.0	P/P	62 - 128
2202161	Hexazinone	86.4	70.7	P/P	58 - 154
2202161	Imazalil	70.5	66.3	P/P	10 - 215
2202161	Malathion	90.1	78.2	P/P	54 - 135
2202161	Metalaxyl	88.7	73.6	P/P	46 - 136
2202161	Metolachlor	86.8	72.6	P/P	62 - 126
2202161	Metribuzin	103	89.3	P/P	44 - 277
2202161	Mevinphos	75.3	62.5	P/P	44 - 135
2202161	Molinate	67.9	51.0	P/P	31 - 104
2202161	Naled	48.7	37.7	P/P	33 - 113
2202161	Norflurazon	71.6	60.7	P/P	32 - 134
2202161	Oxadiazon	72.4	64.3	P/P	55 - 123
2202161	Parathion Ethyl	89.0	76.3	P/P	67 - 120
2202161	Parathion Methyl	90.6	75.6	P/P	70 - 140
2202161	Pendimethalin	79.7	70.3	P/P	59 - 145
2202161	Phorate	87.2	79.3	P/P	52 - 127
2202161	Prodiamine	47.4	56.8	P/P	11 - 157
2202161	Prometon	82.6	71.0	P/P	55 - 130
2202161	Prometryn	82.3	70.8	P/P	55 - 127
2202161	Pronamide	94.9	79.6	P/P	66 - 150
2202161	Propiconazole	67.5	51.8	P/P	14 - 178
2202161	Simazine	89.5	76.5	P/P	58 - 159
2202161	Sulfentrazone	68.9	59.1	P/P	21 - 144
2202161	Tebuconazole	37.3	35.9	P/P	10 - 122
2202161	Terbufos	84.1	72.5	P/P	65 - 131
2202161	Terbutylazine	91.5	78.6	P/P	63 - 131

Reference Method: EPA 8270E
Batch ID: P389028

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2203484	Aldrin	58.6	56.7	P/P	32 - 82.0
2203484	Alpha-BHC	83.7	85.5	P/P	68 - 157
2203484	Alpha-Chlordane	88.5	86.6	P/P	54 - 108
2203484	Beta-BHC	114	118	P/P	54 - 200
2203484	Beta-Cyfluthrin	82.6	104	P/P	50 - 154
2203484	Bifenthrin	85.5	87.0	P/P	49 - 124
2203484	Chlorothalonil	60.1	101	P/P	10 - 289
2203484	Cis-Nonachlor	89.6	87.9	P/P	53 - 112
2203484	Cypermethrin	96.1	101	P/P	43 - 141
2203484	Dacthal	94.1	93.0	P/P	75 - 112
2203484	DDD-p,p'	95.5	93.3	P/P	58 - 125
2203484	DDE-p,p'	82.4	81.9	P/P	50 - 108

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P389028

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2203484	DDT-p,p'	87.6	91.4	P/P	52 - 140
2203484	Delta-BHC	141	158	P/P	61 - 228
2203484	Deltamethrin	114	121	P/P	50 - 200
2203484	Dichlobenil	79.6	77.9	P/P	25 - 140
2203484	Dicofol	102	103	P/P	59 - 130
2203484	Dieldrin	91.7	90.7	P/P	57 - 121
2203484	Endosulfan I	93.9	98.3	P/P	62 - 123
2203484	Endosulfan II	116	114	P/P	48 - 163
2203484	Endosulfan Sulfate	97.7	103	P/P	63 - 132
2203484	Endrin	91.4	98.3	P/P	58 - 128
2203484	Endrin Aldehyde	96.9	105	P/P	44 - 126
2203484	Endrin Ketone	96.9	99.9	P/P	68 - 127
2203484	Esfenvalerate	85.9	90.2	P/P	50 - 150
2203484	Ethalfuralin	75.5	76.1	P/P	55 - 131
2203484	Fenpropathrin	96.1	106	P/P	60 - 160
2203484	Gamma-BHC	107	109	P/P	54 - 206
2203484	Gamma-Chlordane	82.4	81.2	P/P	52 - 105
2203484	Heptachlor	71.7	71.4	P/P	47 - 94.0
2203484	Heptachlor Epoxide	90.2	89.4	P/P	61 - 113
2203484	Hexachlorobenzene	73.7	73.4	P/P	45 - 100
2203484	Lambda-Cyhalothrin	98.0	103	P/P	37 - 165
2203484	Methoxychlor	87.8	87.3	P/P	63 - 153
2203484	MGK-264	73.9	79.7	P/P	50 - 150
2203484	Mirex	70.5	70.4	P/P	38 - 90.0
2203484	Permethrin	85.3	88.2	P/P	45 - 112
2203484	Phenothrin	65.0	66.1	P/P	22 - 118
2203484	Piperonyl Butoxide	101	106	P/P	50 - 150
2203484	Prallethrin	61.4	61.8	P/P	21 - 114
2203484	Tau-Fluvalinate	112	119	P/P	50 - 150
2203484	Tetramethrin	69.0	71.5	P/P	60 - 160
2203484	Trans-Nonachlor	82.0	80.0	P/P	50 - 103
2203484	Triclosan Methyl	99.1	96.6	P/P	50 - 150
2203484	Trifluralin	74.7	74.4	P/P	57 - 122

Reference Method: EPA 8276
Batch ID: P389028

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2203933	Chlordane	110	112	P/P	34 - 129
2203933	Toxaphene	108	115	P/P	16 - 148

Reference Method: EPA 8321B
Batch ID: P388857

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2202760	Acesulfame K	89.4	90.0	P/P	40 - 150
2202760	AMPA	120	122	P/P	40 - 150
2202760	Endothall	108	109	P/P	40 - 150
2202760	Glufosinate	97.4	92.7	P/P	40 - 150
2202760	Glyphosate	85.1	86.0	P/P	40 - 140
2202760	Sucralose	122	119	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P388895

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2202818	2,4-D	40.9	42.4	P/P	30 - 160
2202818	Acetaminophen	85.6	100	P/P	30 - 160
2202818	Acetamiprid	60.5	51.3	P/P	30 - 160
2202818	Afidopyropen	45.1	34.0	P/P	30 - 160
2202818	Bentazon	20.2	19.8	F/F	30 - 160
2202818	Benzovindiflupyr	57.5	49.0	P/P	30 - 160
2202818	Carbamazepine	49.3	39.3	P/P	30 - 160
2202818	Clothianidin	76.6	66.5	P/P	30 - 160
2202818	Dinotefuran	68.1	63.9	P/P	30 - 160
2202818	Diuron	30.1	20.7	P/F	30 - 160
2202818	Fenuron	61.7	70.3	P/P	30 - 160
2202818	Fluridone	66.7	51.6	P/P	30 - 160
2202818	Hydrocodone	56.5	57.6	P/P	30 - 160
2202818	Ibuprofen	36.6	35.8	P/P	30 - 160
2202818	Imazapyr	28.2	26.5	F/F	30 - 160
2202818	Imidacloprid	112	95.4	P/P	30 - 160
2202818	Linuron	53.7	54.4	P/P	30 - 160
2202818	Mandestrobin	64.4	58.6	P/P	30 - 160
2202818	MCP	63.1	58.3	P/P	30 - 160
2202818	Naproxen	32.2	29.6	P/F	30 - 160
2202818	Primidone	63.4	40.6	P/P	30 - 160
2202818	Pyraclostrobin	57.0	50.1	P/P	30 - 160
2202818	Thiamethoxam	83.0	69.4	P/P	30 - 160
2202818	Tolfenpyrad	35.7	32.5	P/P	30 - 160
2202818	Triclopyr	54.4	46.4	P/P	30 - 160

Reference Method: EPA 8321B
Batch ID: P388916

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2202302	3-Hydroxycarbofuran	48.7	39.3	P/P	30 - 160
2202302	Aldicarb	27.9	24.6	F/F	30 - 160
2202302	Aldicarb Sulfone	36.6	32.8	P/P	30 - 160
2202302	Aldicarb Sulfoxide	11.4	10.6	F/F	30 - 160
2202302	Carbaryl	24.8	22.1	F/F	30 - 160
2202302	Carbofuran	22.0	24.1	F/F	30 - 160
2202302	Methiocarb	49.4	40.9	P/P	30 - 160
2202302	Methomyl	44.5	41.7	P/P	30 - 160
2202302	Oxamyl	38.4	41.3	P/P	30 - 160
2202302	Propoxur	24.7	23.2	F/F	30 - 160

Reference Method: SM 4500 F-C-2011
Batch ID: P389117

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2202774	Fluoride	99.1	103	P/P	94 - 107

Reference Method: SM 5310 B-2011
Batch ID: P388948

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2202890	Organic Carbon	94.1	95.3	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P388815

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2202900	Turbidity	14.7	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P388890

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2202129	Barium	2.69	Spike	P	0 - 20
2202129	Calcium	2.03	Spike	P	0 - 20
2202129	Iron	2.66	Spike	P	0 - 20
2202129	Magnesium	2.18	Spike	P	0 - 20
2202129	Potassium	3.81	Spike	P	0 - 20
2202129	Sodium	4.49	Spike	P	0 - 20
2202129	Zinc	4.03	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P388890

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2202129	Aluminum	2.60	Spike	P	0 - 20
2202129	Antimony	1.09	Spike	P	0 - 20
2202129	Arsenic	1.65	Spike	P	0 - 20
2202129	Beryllium	2.75	Spike	P	0 - 20
2202129	Boron	0.0210	Spike	P	0 - 20
2202129	Cadmium	2.31	Spike	P	0 - 20
2202129	Chromium	2.02	Spike	P	0 - 20
2202129	Copper	2.22	Spike	P	0 - 20
2202129	Lead	1.93	Spike	P	0 - 20
2202129	Nickel	1.67	Spike	P	0 - 20
2202129	Selenium	1.67	Spike	P	0 - 20
2202129	Silver	0.288	Spike	P	0 - 20
2202129	Thallium	1.02	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P389333

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2202412	Chloride	0.105	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P389336

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2202412	Sulfate	0.161	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P388848

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2202927	Ammonia-N	1.01	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P389091

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2202962	Kjeldahl Nitrogen	1.07	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P389015

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2202928	NO2NO3-N	0.398	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P389172

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2202833	Total-P	0.0902	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P388821

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2202796	O-Phosphate-P	0.466	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P388720

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2202161	Acetochlor	17.4	Spike	P	0 - 30
2202161	Alachlor	14.6	Spike	P	0 - 30
2202161	Ametryn	17.6	Spike	P	0 - 30
2202161	Atrazine	15.0	Spike	P	0 - 30
2202161	Atrazine Desethyl	18.4	Spike	P	0 - 30
2202161	Azinphos Methyl	14.7	Spike	P	0 - 30
2202161	Bromacil	23.8	Spike	P	0 - 30
2202161	Butylate	22.1	Spike	P	0 - 30
2202161	Carbophenothion	9.89	Spike	P	0 - 30
2202161	Chlorpyrifos Ethyl	19.2	Spike	P	0 - 30
2202161	Chlorpyrifos Methyl	15.0	Spike	P	0 - 30
2202161	Cyanazine	16.4	Spike	P	0 - 30
2202161	Demeton	11.6	Spike	P	0 - 30
2202161	Diazinon	14.8	Spike	P	0 - 30
2202161	Dimethenamid	13.0	Spike	P	0 - 30
2202161	Disulfoton	11.3	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P388720

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2202161	Dithiopyr	13.8	Spike	P	0 - 30
2202161	EPTC	29.5	Spike	P	0 - 30
2202161	Ethion	1.12	Spike	P	0 - 30
2202161	Ethoprop	18.5	Spike	P	0 - 30
2202161	Fenamiphos	2.95	Spike	P	0 - 30
2202161	Fipronil	14.4	Spike	P	0 - 30
2202161	Fipronil Desulfinyl	15.0	Spike	P	0 - 30
2202161	Fipronil Sulfide	21.3	Spike	P	0 - 30
2202161	Fipronil Sulfone	11.0	Spike	P	0 - 30
2202161	Flumioxazin	10.2	Spike	P	0 - 30
2202161	Fonofos	7.04	Spike	P	0 - 30
2202161	Hexazinone	12.4	Spike	P	0 - 30
2202161	Imazalil	6.25	Spike	P	0 - 30
2202161	Malathion	14.2	Spike	P	0 - 30
2202161	Metalaxyl	18.6	Spike	P	0 - 30
2202161	Metolachlor	15.4	Spike	P	0 - 30
2202161	Metribuzin	13.9	Spike	P	0 - 30
2202161	Mevinphos	18.5	Spike	P	0 - 30
2202161	Molinate	28.3	Spike	P	0 - 30
2202161	Naled	25.5	Spike	P	0 - 30
2202161	Norflurazon	16.5	Spike	P	0 - 30
2202161	Oxadiazon	11.9	Spike	P	0 - 30
2202161	Parathion Ethyl	15.4	Spike	P	0 - 30
2202161	Parathion Methyl	18.0	Spike	P	0 - 30
2202161	Pendimethalin	12.6	Spike	P	0 - 30
2202161	Phorate	9.45	Spike	P	0 - 30
2202161	Prodiamine	18.1	Spike	P	0 - 30
2202161	Prometon	15.1	Spike	P	0 - 30
2202161	Prometryn	13.4	Spike	P	0 - 30
2202161	Pronamide	17.6	Spike	P	0 - 30
2202161	Propiconazole	11.3	Spike	P	0 - 30
2202161	Simazine	15.6	Spike	P	0 - 30
2202161	Sulfentrazone	15.4	Spike	P	0 - 30
2202161	Tebuconazole	3.88	Spike	P	0 - 30
2202161	Terbufos	14.8	Spike	P	0 - 30
2202161	Terbuthylazine	15.2	Spike	P	0 - 30
LFB	Acetochlor	10.3	LCS	P	0 - 30
LFB	Alachlor	3.94	LCS	P	0 - 30
LFB	Ametryn	9.23	LCS	P	0 - 30
LFB	Atrazine	9.68	LCS	P	0 - 30
LFB	Atrazine Desethyl	3.21	LCS	P	0 - 30
LFB	Azinphos Methyl	17.4	LCS	P	0 - 30
LFB	Bromacil	12.2	LCS	P	0 - 30
LFB	Butylate	15.2	LCS	P	0 - 30
LFB	Carbophenothion	8.14	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	11.9	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	9.68	LCS	P	0 - 30
LFB	Cyanazine	0.899	LCS	P	0 - 30
LFB	Demeton	12.6	LCS	P	0 - 30
LFB	Diazinon	8.05	LCS	P	0 - 30
LFB	Dimethenamid	5.41	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P388720

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Disulfoton	3.21	LCS	P	0 - 30
LFB	Dithiopyr	7.08	LCS	P	0 - 30
LFB	EPTC	11.8	LCS	P	0 - 30
LFB	Ethion	0.150	LCS	P	0 - 30
LFB	Ethoprop	12.1	LCS	P	0 - 30
LFB	Fenamiphos	6.31	LCS	P	0 - 30
LFB	Fipronil	4.17	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	6.32	LCS	P	0 - 30
LFB	Fipronil Sulfide	13.9	LCS	P	0 - 30
LFB	Fipronil Sulfone	20.5	LCS	P	0 - 30
LFB	Flumioxazin	12.4	LCS	P	0 - 30
LFB	Fonofos	12.7	LCS	P	0 - 30
LFB	Hexazinone	8.35	LCS	P	0 - 30
LFB	Imazalil	10.8	LCS	P	0 - 30
LFB	Malathion	5.09	LCS	P	0 - 30
LFB	Metalaxyl	7.46	LCS	P	0 - 30
LFB	Metolachlor	6.77	LCS	P	0 - 30
LFB	Metribuzin	11.2	LCS	P	0 - 30
LFB	Mevinphos	3.72	LCS	P	0 - 30
LFB	Molinate	15.9	LCS	P	0 - 30
LFB	Naled	10.8	LCS	P	0 - 30
LFB	Norflurazon	13.1	LCS	P	0 - 30
LFB	Oxadiazon	7.80	LCS	P	0 - 30
LFB	Parathion Ethyl	5.96	LCS	P	0 - 30
LFB	Parathion Methyl	13.7	LCS	P	0 - 30
LFB	Pendimethalin	9.71	LCS	P	0 - 30
LFB	Phorate	1.63	LCS	P	0 - 30
LFB	Prodiamine	70.4	LCS	F	0 - 30
LFB	Prometon	9.09	LCS	P	0 - 30
LFB	Prometryn	5.03	LCS	P	0 - 30
LFB	Pronamide	11.1	LCS	P	0 - 30
LFB	Propiconazole	6.56	LCS	P	0 - 30
LFB	Simazine	19.1	LCS	P	0 - 30
LFB	Sulfentrazone	5.88	LCS	P	0 - 30
LFB	Tebuconazole	6.23	LCS	P	0 - 30
LFB	Terbufos	9.74	LCS	P	0 - 30
LFB	Terbutylazine	6.31	LCS	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P389028

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2203484	Aldrin	3.20	Spike	P	0 - 30
2203484	Alpha-BHC	2.17	Spike	P	0 - 30
2203484	Alpha-Chlordane	2.14	Spike	P	0 - 30
2203484	Beta-BHC	3.39	Spike	P	0 - 30
2203484	Beta-Cyfluthrin	22.7	Spike	P	0 - 30
2203484	Bifenthrin	1.74	Spike	P	0 - 30
2203484	Chlorothalonil	50.5	Spike	F	0 - 30
2203484	Cis-Nonachlor	1.90	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P389028

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2203484	Cypermethrin	4.75	Spike	P	0 - 30
2203484	Dacthal	1.18	Spike	P	0 - 30
2203484	DDD-p,p'	2.28	Spike	P	0 - 30
2203484	DDE-p,p'	0.619	Spike	P	0 - 30
2203484	DDT-p,p'	4.27	Spike	P	0 - 30
2203484	Delta-BHC	11.1	Spike	P	0 - 30
2203484	Deltamethrin	6.19	Spike	P	0 - 30
2203484	Dichlobenil	2.14	Spike	P	0 - 30
2203484	Dicofol	0.606	Spike	P	0 - 30
2203484	Dieldrin	1.16	Spike	P	0 - 30
2203484	Endosulfan I	4.56	Spike	P	0 - 30
2203484	Endosulfan II	2.30	Spike	P	0 - 30
2203484	Endosulfan Sulfate	5.37	Spike	P	0 - 30
2203484	Endrin	7.35	Spike	P	0 - 30
2203484	Endrin Aldehyde	8.00	Spike	P	0 - 30
2203484	Endrin Ketone	3.02	Spike	P	0 - 30
2203484	Esfenvalerate	4.87	Spike	P	0 - 30
2203484	Ethalfuralin	0.797	Spike	P	0 - 30
2203484	Fenpropathrin	9.77	Spike	P	0 - 30
2203484	Gamma-BHC	1.42	Spike	P	0 - 30
2203484	Gamma-Chlordane	1.53	Spike	P	0 - 30
2203484	Heptachlor	0.496	Spike	P	0 - 30
2203484	Heptachlor Epoxide	0.891	Spike	P	0 - 30
2203484	Hexachlorobenzene	0.385	Spike	P	0 - 30
2203484	Lambda-Cyhalothrin	5.44	Spike	P	0 - 30
2203484	Methoxychlor	0.507	Spike	P	0 - 30
2203484	MGK-264	7.66	Spike	P	0 - 30
2203484	Mirex	0.0823	Spike	P	0 - 30
2203484	Permethrin	3.31	Spike	P	0 - 30
2203484	Phenothrin	1.65	Spike	P	0 - 30
2203484	Piperonyl Butoxide	4.06	Spike	P	0 - 30
2203484	Prallethrin	0.587	Spike	P	0 - 30
2203484	Tau-Fluvalinate	5.67	Spike	P	0 - 30
2203484	Tetramethrin	3.53	Spike	P	0 - 30
2203484	Trans-Nonachlor	2.49	Spike	P	0 - 30
2203484	Triclosan Methyl	2.53	Spike	P	0 - 30
2203484	Trifluralin	0.367	Spike	P	0 - 30
LFB	Aldrin	0.721	LCS	P	0 - 30
LFB	Alpha-BHC	0.653	LCS	P	0 - 30
LFB	Alpha-Chlordane	0.883	LCS	P	0 - 30
LFB	Beta-BHC	0.292	LCS	P	0 - 30
LFB	Beta-Cyfluthrin	5.51	LCS	P	0 - 30
LFB	Bifenthrin	0.483	LCS	P	0 - 30
LFB	Chlorothalonil	2.27	LCS	P	0 - 30
LFB	Cis-Nonachlor	2.31	LCS	P	0 - 30
LFB	Cypermethrin	3.23	LCS	P	0 - 30
LFB	Dacthal	1.81	LCS	P	0 - 30
LFB	DDD-p,p'	3.12	LCS	P	0 - 30
LFB	DDE-p,p'	0.312	LCS	P	0 - 30
LFB	DDT-p,p'	1.09	LCS	P	0 - 30
LFB	Delta-BHC	4.12	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P389028

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Deltamethrin	0.188	LCS	P	0 - 30
LFB	Dichlobenil	2.89	LCS	P	0 - 30
LFB	Dicofol	7.59	LCS	P	0 - 30
LFB	Dieldrin	2.60	LCS	P	0 - 30
LFB	Endosulfan I	1.53	LCS	P	0 - 30
LFB	Endosulfan II	0.859	LCS	P	0 - 30
LFB	Endosulfan Sulfate	2.31	LCS	P	0 - 30
LFB	Endrin	2.39	LCS	P	0 - 30
LFB	Endrin Aldehyde	3.99	LCS	P	0 - 30
LFB	Endrin Ketone	0.632	LCS	P	0 - 30
LFB	Esfenvalerate	1.33	LCS	P	0 - 30
LFB	Ethalfuralin	3.91	LCS	P	0 - 30
LFB	Fenpropathrin	0.494	LCS	P	0 - 30
LFB	Gamma-BHC	1.38	LCS	P	0 - 30
LFB	Gamma-Chlordane	0.201	LCS	P	0 - 30
LFB	Heptachlor	0.782	LCS	P	0 - 30
LFB	Heptachlor Epoxide	1.16	LCS	P	0 - 30
LFB	Hexachlorobenzene	0.253	LCS	P	0 - 30
LFB	Lambda-Cyhalothrin	2.95	LCS	P	0 - 30
LFB	Methoxychlor	1.56	LCS	P	0 - 30
LFB	MGK-264	5.00	LCS	P	0 - 30
LFB	Mirex	1.09	LCS	P	0 - 30
LFB	Permethrin	1.94	LCS	P	0 - 30
LFB	Phenothrin	2.05	LCS	P	0 - 30
LFB	Piperonyl Butoxide	1.31	LCS	P	0 - 30
LFB	Prallethrin	0.776	LCS	P	0 - 30
LFB	Tau-Fluvalinate	0.0386	LCS	P	0 - 30
LFB	Tetramethrin	3.11	LCS	P	0 - 30
LFB	Trans-Nonachlor	0.653	LCS	P	0 - 30
LFB	Triclosan Methyl	0.703	LCS	P	0 - 30
LFB	Trifluralin	0.409	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P389028

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2203933	Chlordane	1.91	Spike	P	0 - 30
2203933	Toxaphene	5.96	Spike	P	0 - 30
LFB	Chlordane	2.35	LCS	P	0 - 30
LFB	Toxaphene	8.43	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P388857

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2202760	Acesulfame K	0.707	Spike	P	0 - 30
2202760	AMPA	0.939	Spike	P	0 - 30
2202760	Endothall	0.924	Spike	P	0 - 30
2202760	Glufosinate	4.95	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P388857

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2202760	Glyphosate	1.02	Spike	P	0 - 30
2202760	Sucralose	2.67	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P388895

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2202818	2,4-D	2.97	Spike	P	0 - 30
2202818	Acetaminophen	15.7	Spike	P	0 - 30
2202818	Acetamiprid	16.4	Spike	P	0 - 30
2202818	Afidopyrophen	28.0	Spike	P	0 - 30
2202818	Bentazon	0.898	Spike	P	0 - 30
2202818	Benzovindiflupyr	15.9	Spike	P	0 - 30
2202818	Carbamazepine	22.4	Spike	P	0 - 30
2202818	Clothianidin	14.1	Spike	P	0 - 30
2202818	Dinotefuran	6.44	Spike	P	0 - 30
2202818	Diuron	31.8	Spike	F	0 - 30
2202818	Fenuron	13.0	Spike	P	0 - 30
2202818	Fluridone	20.5	Spike	P	0 - 30
2202818	Hydrocodone	2.04	Spike	P	0 - 30
2202818	Ibuprofen	2.25	Spike	P	0 - 30
2202818	Imazapyr	3.05	Spike	P	0 - 30
2202818	Imidacloprid	15.4	Spike	P	0 - 30
2202818	Linuron	1.34	Spike	P	0 - 30
2202818	Mandestrobin	9.44	Spike	P	0 - 30
2202818	MCP	8.05	Spike	P	0 - 30
2202818	Naproxen	8.26	Spike	P	0 - 30
2202818	Primidone	43.7	Spike	F	0 - 30
2202818	Pyraclostrobin	12.9	Spike	P	0 - 30
2202818	Thiamethoxam	17.7	Spike	P	0 - 30
2202818	Tolfenpyrad	9.44	Spike	P	0 - 30
2202818	Triclopyr	15.9	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P388916

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2202302	3-Hydroxycarbofuran	21.6	Spike	P	0 - 30
2202302	Aldicarb	12.5	Spike	P	0 - 30
2202302	Aldicarb Sulfone	10.8	Spike	P	0 - 30
2202302	Aldicarb Sulfoxide	7.67	Spike	P	0 - 30
2202302	Carbaryl	9.17	Spike	P	0 - 30
2202302	Carbofuran	8.92	Spike	P	0 - 30
2202302	Methiocarb	18.9	Spike	P	0 - 30
2202302	Methomyl	6.36	Spike	P	0 - 30
2202302	Oxamyl	7.26	Spike	P	0 - 30
2202302	Propoxur	5.92	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: SM 2120 B-2011
 Batch ID: P388797

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2202775	Color (true)	0.0556	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
 Batch ID: P389112

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2202774	Total Alkalinity	0.527	Sample	P	0 - 8.1

Reference Method: SM 2540 C-2011
 Batch ID: P389380

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2202900	TDS	3.79	Sample	P	0 - 10

Reference Method: SM 2540 D-2011
 Batch ID: P389308

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2202900	TSS	3.77	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
 Batch ID: P389117

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2202774	Fluoride	0.928	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
 Batch ID: P388948

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2202890	Organic Carbon	1.07	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2202904
Field Sample ID: G3SD0159

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	38.0	P	30 - 160

Lab Sample ID: 2202905
Field Sample ID: G3SD0159

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	44.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	61.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	47.8	P	30 - 160
EPA 8321B	Diuron-d6	33.5	P	30 - 160
EPA 8321B	Endothall-d6	119	P	30 - 160
EPA 8321B	Endothall-d6	119	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	103	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	103	P	30 - 160
EPA 8321B	Ibuprofen-d3	52.2	P	30 - 160
EPA 8321B	Primidone-d5	37.6	P	30 - 160
EPA 8321B	Sucralose-d6	85.3	P	30 - 160
EPA 8321B	Sucralose-d6	85.3	P	30 - 160

Lab Sample ID: 2202906
Field Sample ID: FB101520

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	58.0	P	30 - 160

Lab Sample ID: 2202907
Field Sample ID: FB101520

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	59.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	69.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	54.3	P	30 - 160
EPA 8321B	Diuron-d6	47.6	P	30 - 160
EPA 8321B	Endothall-d6	130	P	30 - 160
EPA 8321B	Endothall-d6	130	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	126	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	126	P	30 - 160
EPA 8321B	Ibuprofen-d3	49.5	P	30 - 160
EPA 8321B	Primidone-d5	63.8	P	30 - 160
EPA 8321B	Sucralose-d6	117	P	30 - 160
EPA 8321B	Sucralose-d6	117	P	30 - 160

Lab Sample ID: 2202908
Field Sample ID: G3SD0159

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	83.1	P	44 - 112
EPA 8270E	Tetrachloro-m-xylene	68.5	P	34 - 106
EPA 8276	Decachlorobiphenyl	64.6	P	26 - 97.0
EPA 8276	PCNB	78.0	P	38 - 141

Quality Assurance Report Surrogates

Lab Sample ID: 2202909
Field Sample ID: G3SD0159

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	88.6	P	72 - 135
EPA 8270E	Terbufos-d10	74.3	P	57 - 134

Lab Sample ID: 2202910
Field Sample ID: FB101520

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	73.7	P	44 - 112
EPA 8270E	Tetrachloro-m-xylene	67.3	P	34 - 106
EPA 8276	Decachlorobiphenyl	55.2	P	26 - 97.0
EPA 8276	PCNB	76.9	P	38 - 141

Lab Sample ID: 2202911
Field Sample ID: FB101520

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	81.0	P	72 - 135
EPA 8270E	Terbufos-d10	79.0	P	57 - 134

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B-2011

Run ID: A101564

Included Lab Sample IDs: 2202900

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A101567

Included Lab Sample IDs: 2202900

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A101569

Included Lab Sample IDs: 2202902

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A101575

Included Lab Sample IDs: 2202901

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

Reference Method: EPA 8321B

Run ID: A101618

Included Lab Sample IDs: 2202905, 2202907

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	69.4	69.1	P/P	50 - 160
Endothall	123	125	P/P	60 - 160

Reference Method: SM 5310 B-2011

Run ID: A101631

Included Lab Sample IDs: 2202901

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.6	94.7	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A101643

Included Lab Sample IDs: 2202905, 2202907

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	110	117	P/P	50 - 160
Glufosinate	108	111	P/P	50 - 160
Glyphosate	106	105	P/P	50 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A101646

Included Lab Sample IDs: 2202912

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	103	102	P/P	90 - 110
Calcium	104	105	P/P	90 - 110
Iron	102	104	P/P	90 - 110
Magnesium	102	104	P/P	90 - 110
Potassium	100	102	P/P	90 - 110
Sodium	101	102	P/P	90 - 110
Zinc	105	103	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A101652

Included Lab Sample IDs: 2202904, 2202906

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	88.8	96.2	P/P	60 - 150
Aldicarb	83.0	86.7	P/P	60 - 150
Aldicarb Sulfone	82.3	88.1	P/P	50 - 150
Aldicarb Sulfoxide	96.0	92.4	P/P	50 - 150
Carbaryl	78.4	69.3	P/P	60 - 150
Carbofuran	67.3	60.9	P/P	50 - 150
Methiocarb	77.5	81.2	P/P	50 - 150
Methomyl	91.8	81.1	P/P	50 - 150
Oxamyl	99.5	91.7	P/P	50 - 150
Propoxur	72.4	68.9	P/P	50 - 150

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A101657

Included Lab Sample IDs: 2202901

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

Reference Method: EPA 8321B

Run ID: A101671

Included Lab Sample IDs: 2202905, 2202907

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	75.7	80.2	P/P	50 - 150
2,4-D	81.4	75.7	P/P	50 - 150
Acetaminophen	108	98.3	P/P	60 - 160
Acetaminophen	98.3	115	P/P	60 - 160
Acetamiprid	117	118	P/P	50 - 150
Acetamiprid	121	117	P/P	50 - 150
Afidopyropen	90.2	94.6	P/P	50 - 150
Afidopyropen	92.7	90.2	P/P	50 - 150
Bentazon	106	80.7	P/P	50 - 160
Bentazon	80.7	80.7	P/P	50 - 160
Benzovindiflupyr	105	99.9	P/P	50 - 150
Benzovindiflupyr	99.9	92.9	P/P	50 - 150
Carbamazepine	109	99.5	P/P	60 - 150
Carbamazepine	117	109	P/P	60 - 150
Clothianidin	107	100	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A101671

Included Lab Sample IDs: 2202905, 2202907

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Clothianidin	115	107	P/P	60 - 150
Dinotefuran	92.4	94.8	P/P	50 - 150
Dinotefuran	97.5	92.4	P/P	50 - 150
Diuron	101	100	P/P	60 - 160
Diuron	106	101	P/P	60 - 160
Fenuron	106	110	P/P	60 - 150
Fenuron	109	106	P/P	60 - 150
Fluridone	93.5	97.3	P/P	60 - 160
Fluridone	97.3	101	P/P	60 - 160
Hydrocodone	105	98.8	P/P	60 - 150
Hydrocodone	98.8	100	P/P	60 - 150
Ibuprofen	79.9	80.9	P/P	50 - 160
Ibuprofen	96.4	79.9	P/P	50 - 160
Imazapyr	112	113	P/P	50 - 160
Imazapyr	124	112	P/P	50 - 160
Imidacloprid	89.6	96.4	P/P	60 - 150
Imidacloprid	93.2	89.6	P/P	60 - 150
Linuron	62.6	67.6	P/P	60 - 150
Linuron	93.6	62.6	P/P	60 - 150
Mandestrobin	101	109	P/P	50 - 150
Mandestrobin	110	101	P/P	50 - 150
MCPP	70.2	63.7	P/P	50 - 150
MCPP	91.2	70.2	P/P	50 - 150
Naproxen	126	83.3	P/P	50 - 160
Naproxen	83.3	124	P/P	50 - 160
Primidone	82.2	102	P/P	60 - 150
Primidone	95.3	82.2	P/P	60 - 150
Pyraclostrobin	103	97.0	P/P	60 - 150
Pyraclostrobin	97.0	90.9	P/P	60 - 150
Thiamethoxam	91.6	90.1	P/P	50 - 150
Thiamethoxam	94.5	91.6	P/P	50 - 150
Tolfenpyrad	76.5	89.6	P/P	60 - 150
Tolfenpyrad	94.8	76.5	P/P	60 - 150
Triclopyr	71.7	79.4	P/P	50 - 150
Triclopyr	93.9	71.7	P/P	50 - 150

Reference Method: EPA 8321B

Run ID: A101686

Included Lab Sample IDs: 2202905, 2202907

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	114	123	P/P	50 - 160

Reference Method: SM 2320 B-2011

Run ID: A101694

Included Lab Sample IDs: 2202900

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.7	96.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500 F-C-2011

Run ID: A101694

Included Lab Sample IDs: 2202900

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A101723

Included Lab Sample IDs: 2202901

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A101775

Included Lab Sample IDs: 2202901

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.1	97.9	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A101777

Included Lab Sample IDs: 2202912

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Antimony	101	101	P/P	90 - 110
Arsenic	99.3	98.9	P/P	90 - 110
Beryllium	102	105	P/P	90 - 110
Boron	102	102	P/P	90 - 110
Cadmium	99.5	101	P/P	90 - 110
Chromium	95.1	94.2	P/P	90 - 110
Copper	94.6	93.8	P/P	90 - 110
Lead	95.4	96.2	P/P	90 - 110
Nickel	95.5	94.2	P/P	90 - 110
Selenium	98.5	97.6	P/P	90 - 110
Silver	99.8	101	P/P	90 - 110
Thallium	92.3	93.7	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A101798

Included Lab Sample IDs: 2202900

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

Reference Method: EPA 8270E

Run ID: A101818

Included Lab Sample IDs: 2202908, 2202910

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	98.6		P	80 - 120
Alpha-BHC	102		P	80 - 120
Alpha-Chlordane	98.1		P	80 - 120
Beta-BHC	111		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A101818

Included Lab Sample IDs: 2202908, 2202910

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beta-Cyfluthrin	71.8*		F	80 - 120
Bifenthrin	99.0		P	80 - 120
Chlorothalonil	116		P	80 - 120
Cis-Nonachlor	98.6		P	80 - 120
Cypermethrin	93.7		P	80 - 120
Dacthal	97.9		P	80 - 120
DDD-p,p'	99.2		P	80 - 120
DDE-p,p'	103		P	80 - 120
DDT-p,p'	107		P	80 - 120
Delta-BHC	106		P	80 - 120
Deltamethrin	99.4		P	80 - 120
Dichlobenil	99.0		P	80 - 120
Dicofol	109		P	80 - 120
Dieldrin	97.8		P	80 - 120
Endosulfan I	90.8		P	80 - 120
Endosulfan II	104		P	80 - 120
Endosulfan Sulfate	96.3		P	80 - 120
Endrin	101		P	80 - 120
Endrin Aldehyde	99.3		P	80 - 120
Endrin Ketone	94.6		P	80 - 120
Esfenvalerate	89.5		P	80 - 120
Ethalfuralin	95.9		P	80 - 120
Fenpropathrin	91.9		P	80 - 120
Gamma-BHC	107		P	80 - 120
Gamma-Chlordane	97.0		P	80 - 120
Heptachlor	96.2		P	80 - 120
Heptachlor Epoxide	98.4		P	80 - 120
Hexachlorobenzene	105		P	80 - 120
Lambda-Cyhalothrin	93.6		P	80 - 120
Methoxychlor	100		P	80 - 120
MGK-264	92.4		P	80 - 120
Mirex	99.6		P	80 - 120
Permethrin	91.8		P	80 - 120
Phenothrin	91.0		P	80 - 120
Piperonyl Butoxide	89.1		P	80 - 120
Prallethrin	85.3		P	80 - 120
Tau-Fluvalinate	94.6		P	80 - 120
Tetramethrin	87.7		P	80 - 120
Trans-Nonachlor	98.4		P	80 - 120
Triclosan Methyl	101		P	80 - 120
Trifluralin	97.2		P	80 - 120

Reference Method: EPA 8276

Run ID: A101822

Included Lab Sample IDs: 2202908, 2202910

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.6		P	80 - 120
Toxaphene	100		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A101828

Included Lab Sample IDs: 2202912

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

Reference Method: EPA 8270E

Run ID: A101840

Included Lab Sample IDs: 2202909, 2202911

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	95.5		P	80 - 120
Alachlor	97.6		P	80 - 120
Ametryn	91.3		P	80 - 120
Atrazine	97.0		P	80 - 120
Atrazine Desethyl	96.2		P	80 - 120
Azinphos Methyl	91.3		P	80 - 120
Bromacil	92.0		P	80 - 120
Butylate	100		P	80 - 120
Carbophenothion	94.9		P	80 - 120
Chlorpyrifos Ethyl	94.9		P	80 - 120
Chlorpyrifos Methyl	100		P	80 - 120
Cyanazine	95.0		P	80 - 120
Demeton	96.8		P	80 - 120
Diazinon	98.2		P	80 - 120
Dimethenamid	97.0		P	80 - 120
Disulfoton	97.2		P	80 - 120
Dithiopyr	96.9		P	80 - 120
EPTC	99.1		P	80 - 120
Ethion	90.3		P	80 - 120
Ethoprop	98.3		P	80 - 120
Fenamiphos	91.1		P	80 - 120
Fipronil	95.1		P	80 - 120
Fipronil Desulfinyl	98.9		P	80 - 120
Fipronil Sulfide	93.7		P	80 - 120
Fipronil Sulfone	94.4		P	80 - 120
Flumioxazin	86.0		P	80 - 120
Fonofos	97.9		P	80 - 120
Hexazinone	94.9		P	80 - 120
Imazalil	94.8		P	80 - 120
Malathion	92.0		P	80 - 120
Metaxyl	97.7		P	80 - 120
Metolachlor	97.4		P	80 - 120
Metribuzin	92.7		P	80 - 120
Mevinphos	96.3		P	80 - 120
Molinate	97.4		P	80 - 120
Naled	103		P	80 - 120
Norflurazon	92.6		P	80 - 120
Oxadiazon	95.9		P	80 - 120
Parathion Ethyl	94.0		P	80 - 120
Parathion Methyl	95.2		P	80 - 120
Pendimethalin	100		P	80 - 120
Phorate	96.5		P	80 - 120
Prodiamine	95.1		P	80 - 120
Prometon	94.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A101840

Included Lab Sample IDs: 2202909, 2202911

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Prometryn	94.8		P	80 - 120
Pronamide	93.6		P	80 - 120
Propiconazole	89.9		P	80 - 120
Simazine	99.9		P	80 - 120
Sulfentrazone	91.8		P	80 - 120
Tebuconazole	93.2		P	80 - 120
Terbufos	99.0		P	80 - 120
Terbutylazine	98.2		P	80 - 120

Reference Method: EPA 8270E

Run ID: A101850

Included Lab Sample IDs: 2202909

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bromacil	99.9		P	80 - 120
Norflurazon	98.4		P	80 - 120

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity						14.7	
EPA 200.7 Rev. 4.4	Barium	103		102	99.6	102		2.69
	Calcium	105		105	105			2.03
	Iron	105		106	103	106		2.66
	Magnesium	105		105	101	105		2.18
	Potassium	101		102	97.4	100		3.81
	Sodium	105		104	98.0	99.8		4.49
	Zinc	102		102	98.2	100		4.03
EPA 200.8 Rev. 5.4	Aluminum	106		106	103	105		2.60
	Antimony	103		104	103	105		1.09
	Arsenic	102		103	101	103		1.65
	Beryllium	102		105	102	109		2.75
	Boron	102		101	101	104		0.0210
	Cadmium	103		105	103	104		2.31
	Chromium	97.9		102	99.7	99.4		2.02
	Copper	97.3		96.1	98.6	96.5		2.22
	Lead	96.3		97.4	95.6	97.2		1.93
	Nickel	98.8		99.8	98.1	98.1		1.67
	Selenium	96.7		99.2	97.6	97.5		1.67
	Silver	96.9		98.5	98.2	97.2		0.288
	Thallium	98.2		99.8	98.8	99.6		1.02
EPA 300.0 Rev. 2.1	Chloride	102		103	102		0.105	
	Sulfate	103		103	103		0.161	
EPA 350.1 Rev. 2.0	Ammonia-N	101		101	102			1.01
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105		107	108			1.07
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	99.5		99.0	98.5			0.398
EPA 365.1 Rev. 2.0	Total-P	106		107	107			0.0902
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.6		97.9	97.4			0.466
EPA 8270E	Acetochlor	87.4	78.9	73.8	88.0	10.3		17.4
	Alachlor	87.0	83.7	72.4	83.8	3.94		14.6
	Aldrin	30.8	30.6	58.6	56.7	0.721		3.20
	Alpha-BHC	79.3	79.9	83.7	85.5	0.653		2.17
	Alpha-Chlordane	72.4	71.7	88.5	86.6	0.883		2.14
	Ametryn	91.4	83.4			9.23		17.6
	Atrazine	90.6	82.3			9.68		15.0
	Atrazine Desethyl	71.8	69.5	48.3	64.2	3.21		18.4
	Azinphos Methyl	97.9	82.2	76.1	88.2	17.4		14.7
	Beta-BHC	105	105	114	118	0.292		3.39
	Beta-Cyfluthrin	56.8	60.0	82.6	104	5.51		22.7
	Bifenthrin	60.1	60.4	85.5	87.0	0.483		1.74
	Bromacil	56.5	50.0	61.0	48.0	12.2		23.8
	Butylate	63.9	54.8	47.3	37.9	15.2		22.1
	Carbophenothion	79.8	73.6	66.4	73.3	8.14		9.89
	Chlorothalonil	26.2	26.8	60.1	101	2.27		50.5
	Chlorpyrifos Ethyl	84.1	74.6	72.5	87.9	11.9		19.2
	Chlorpyrifos Methyl	90.0	81.7	75.3	87.6	9.68		15.0
	Cis-Nonachlor	75.4	73.6	89.6	87.9	2.31		1.90
	Cyanazine	100	99.1	84.9	100	0.899		16.4
	Cypermethrin	65.3	67.4	96.1	101	3.23		4.75
	Dacthal	85.3	83.7	94.1	93.0	1.81		1.18
	DDD-p,p'	80.9	78.5	95.5	93.3	3.12		2.28
	DDE-p,p'	69.8	69.6	82.4	81.9	0.312		0.619
	DDT-p,p'	71.3	72.1	87.6	91.4	1.09		4.27
	Delta-BHC	128	123	141	158	4.12		11.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 8270E	Deltamethrin	77.2	77.3	114	121	0.188		6.19
	Demeton	81.1	71.5	74.3	83.4	12.6		11.6
	Diazinon	83.8	77.3	74.6	86.5	8.05		14.8
	Dichlobenil	76.4	74.2	79.6	77.9	2.89		2.14
	Dicofol	111	103	102	103	7.59		0.606
	Dieldrin	78.4	76.4	91.7	90.7	2.60		1.16
	Dimethenamid	81.9	77.6	70.7	80.6	5.41		13.0
	Disulfoton	70.4	72.7	62.6	70.1	3.21		11.3
	Dithiopyr	78.6	73.2	68.6	78.8	7.08		13.8
	Endosulfan I	79.2	78.0	93.9	98.3	1.53		4.56
	Endosulfan II	92.8	92.0	116	114	0.859		2.30
	Endosulfan Sulfate	84.2	82.3	97.7	103	2.31		5.37
	Endrin	81.2	79.3	91.4	98.3	2.39		7.35
	Endrin Aldehyde	91.3	87.7	96.9	105	3.99		8.00
	Endrin Ketone	85.7	85.2	96.9	99.9	0.632		3.02
	EPTC	60.6	53.8	34.0	45.8	11.8		29.5
	Esfenvalerate	63.5	64.4	85.9	90.2	1.33		4.87
	Ethalfuralin	65.2	67.8	75.5	76.1	3.91		0.797
	Ethion	73.5	73.6	71.8	72.6	0.150		1.12
	Ethoprop	82.6	73.2	69.5	83.6	12.1		18.5
	Fenamiphos	75.6	80.5	44.7	43.4	6.31		2.95
	Fenpropathrin	67.9	67.5	96.1	106	0.494		9.77
	Fipronil	84.0	80.6	72.9	84.2	4.17		14.4
	Fipronil Desulfinyl	84.6	79.4	72.5	84.2	6.32		15.0
	Fipronil Sulfide	76.6	66.6	58.7	72.6	13.9		21.3
	Fipronil Sulfone	85.4	69.6	70.8	79.0	20.5		11.0
	Flumioxazin	131	116	130	144	12.4		10.2
	Fonofos	82.8	73.0	76.0	81.6	12.7		7.04
	Gamma-BHC	101	99.7	107	109	1.38		1.42
	Gamma-Chlordane	67.6	67.7	82.4	81.2	0.201		1.53
	Heptachlor	60.6	61.1	71.7	71.4	0.782		0.496
	Heptachlor Epoxide	78.5	77.6	90.2	89.4	1.16		0.891
	Hexachlorobenzene	66.3	66.1	73.7	73.4	0.253		0.385
	Hexazinone	79.1	72.8	70.7	86.4	8.35		12.4
	Imazalil	79.3	71.2	66.3	70.5	10.8		6.25
	Lambda-Cyhalothrin	65.2	67.2	98.0	103	2.95		5.44
	Malathion	90.7	86.2	78.2	90.1	5.09		14.2
	Metalaxyl	87.8	81.5	73.6	88.7	7.46		18.6
	Methoxychlor	77.3	78.5	87.8	87.3	1.56		0.507
	Metolachlor	88.2	82.4	72.6	86.8	6.77		15.4
	Metribuzin	92.1	82.3	89.3	103	11.2		13.9
	Mevinphos	70.0	67.5	62.5	75.3	3.72		18.5
	MGK-264	43.0	40.9	73.9	79.7	5.00		7.66
	Mirex	55.2	55.8	70.5	70.4	1.09		0.0823
	Molinate	74.2	63.2	51.0	67.9	15.9		28.3
	Naled	50.3	45.2	37.7	48.7	10.8		25.5
	Norflurazon	76.4	67.0	60.7	71.6	13.1		16.5
	Oxadiazon	74.8	69.2	64.3	72.4	7.80		11.9
	Parathion Ethyl	85.1	80.2	76.3	89.0	5.96		15.4
	Parathion Methyl	91.6	79.9	75.6	90.6	13.7		18.0
	Pendimethalin	72.8	66.0	70.3	79.7	9.71		12.6
	Permethrin	61.1	62.3	85.3	88.2	1.94		3.31
	Phenothrin	32.0	32.6	65.0	66.1	2.05		1.65
	Phorate	101	103	79.3	87.2	1.63		9.45

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 8270E	Piperonyl Butoxide	83.9	85.0	101	106	1.31		4.06
	Prallethrin	43.0	43.4	61.4	61.8	0.776		0.587
	Prodiamine	76.8	36.8	56.8	47.4	70.4		18.1
	Prometon	83.5	76.2	71.0	82.6	9.09		15.1
	Prometryn	83.2	79.1	70.8	82.3	5.03		13.4
	Pronamide	92.3	82.6	79.6	94.9	11.1		17.6
	Propiconazole	71.0	66.5	51.8	67.5	6.56		11.3
	Simazine	92.2	76.1	76.5	89.5	19.1		15.6
	Sulfentrazone	62.7	59.1	59.1	68.9	5.88		15.4
	Tau-Fluvalinate	75.1	75.1	112	119	0.0386		5.67
	Tebuconazole	41.4	44.0	35.9	37.3	6.23		3.88
	Terbufos	80.1	72.6	72.5	84.1	9.74		14.8
	Terbuthylazine	90.2	84.7	91.5	78.6	6.31		15.2
	Tetramethrin	52.4	54.0	69.0	71.5	3.11		3.53
	Trans-Nonachlor	69.4	69.0	82.0	80.0	0.653		2.49
	Triclosan Methyl	87.0	86.4	99.1	96.6	0.703		2.53
	Trifluralin	66.4	66.2	74.7	74.4	0.409		0.367
EPA 8276	Chlordane	97.1	99.4	110	112	2.35		1.91
	Toxaphene	74.7	81.2	108	115	8.43		5.96
EPA 8321B	2,4-D	45.5		40.9	42.4			2.97
	3-Hydroxycarbofuran	79.7		48.7	39.3			21.6
	Acesulfame K	69.4		89.4	90.0			0.707
	Acetaminophen	53.8		85.6	100			15.7
	Acetamiprid	61.5		60.5	51.3			16.4
	Afidopyropen	50.6		45.1	34.0			28.0
	Aldicarb	48.4		27.9	24.6			12.5
	Aldicarb Sulfone	83.1		36.6	32.8			10.8
	Aldicarb Sulfoxide	89.1		11.4	10.6			7.67
	AMPA	114		120	122			0.939
	Bentazon	48.3		20.2	19.8			0.898
	Benzovindiflupyr	65.0		57.5	49.0			15.9
	Carbamazepine	63.9		49.3	39.3			22.4
	Carbaryl	63.1		24.8	22.1			9.17
	Carbofuran	53.5		22.0	24.1			8.92
	Clothianidin	101		76.6	66.5			14.1
	Dinotefuran	84.8		68.1	63.9			6.44
	Diuron	70.2		30.1	20.7			31.8
	Endothall	109		108	109			0.924
	Fenuron	100		61.7	70.3			13.0
	Fluridone	83.0		66.7	51.6			20.5
	Glufosinate	100		97.4	92.7			4.95
	Glyphosate	104		85.1	86.0			1.02
	Hydrocodone	79.0		56.5	57.6			2.04
	Ibuprofen	48.4		36.6	35.8			2.25
	Imazapyr	52.0		28.2	26.5			3.05
	Imidacloprid	77.2		112	95.4			15.4
	Linuron	61.1		53.7	54.4			1.34
	Mandestrobin	78.8		64.4	58.6			9.44
	MCPP	58.1		63.1	58.3			8.05
	Methiocarb	80.9		49.4	40.9			18.9
	Methomyl	89.2		44.5	41.7			6.36
	Naproxen	45.5		32.2	29.6			8.26
	Oxamyl	88.7		38.4	41.3			7.26
	Primidone	90.5		63.4	40.6			43.7

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery	LCS	Precision SMP	MS
EPA 8321B	Propoxur	50.7	24.7 23.2			5.92
	Pyraclostrobin	58.8	57.0 50.1			12.9
	Sucralose	116	122 119			2.67
	Thiamethoxam	85.6	83.0 69.4			17.7
	Tolfenpyrad	38.6	35.7 32.5			9.44
	Triclopyr	50.2	54.4 46.4			15.9
SM 2120 B-2011	Color (true)	99.9			0.0556	
SM 2320 B-2011	Total Alkalinity	99.7			0.527	
SM 2540 C-2011	TDS				3.79	
SM 2540 D-2011	TSS				3.77	
SM 4500 F-C-2011	Fluoride	98.3	99.1 103			0.928
SM 5310 B-2011	Organic Carbon	94.8	94.1 95.3			1.07

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2202900
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2202912
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2202912
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2202900
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2202900
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2202901
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2202901
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2202901
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2202901
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2202902
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS-SIM	2202908, 2202910
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2202909, 2202911
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2202908, 2202910
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2202904, 2202906
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2202905, 2202907
EPA 8321B	Water soluble organic compounds by HPLC/MS/MS	2202905, 2202907
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2202900
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2202900
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2202900
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2202900
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2202900
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2202901

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	10/16/2020			10/16/2020 15:33	Yen Ta	2202900
EPA 200.7 Rev. 4.4	10/16/2020	10/19/2020 13:20	Elliott D. Healy	10/20/2020 16:50	Betina Topolski	2202912
EPA 200.8 Rev. 5.4	10/16/2020	10/19/2020 13:20	Elliott D. Healy	10/26/2020 21:38	Alexander Thompson	2202912
	10/16/2020	10/19/2020 13:20	Elliott D. Healy	10/28/2020 18:04	Alexander Thompson	2202912
EPA 300.0 Rev. 2.1	10/16/2020			10/27/2020 12:12	Lipi Saha	2202900
EPA 350.1 Rev. 2.0	10/16/2020			10/18/2020 13:32	Ping Hua	2202901
EPA 351.2 Rev. 2.0	10/16/2020	10/22/2020 13:36	David Boose	10/23/2020 12:40	Elliott Rodriguez	2202901
EPA 353.2 Rev. 2.0	10/16/2020			10/21/2020 09:35	Beverly Y. Sanders	2202901
EPA 365.1 Rev. 2.0	10/16/2020	10/23/2020 15:15	Shengyu Wang	10/26/2020 11:15	Lipi Saha	2202901
EPA 365.1 Rev. 2.0 dissolved	10/16/2020			10/16/2020 15:54	Samantha Davila	2202902
EPA 8270E	10/16/2020	10/16/2020 12:30	Fe-Val Siddell	10/19/2020 20:16	Vandana T. Nagar	2202909
	10/16/2020	10/16/2020 12:30	Fe-Val Siddell	10/19/2020 20:41	Vandana T. Nagar	2202911
	10/16/2020	10/16/2020 12:30	Fe-Val Siddell	10/21/2020 21:32	Vandana T. Nagar	2202909
	10/16/2020	10/22/2020 08:30	Rasheda Ghaffari	10/27/2020 20:10	Arthur Maknenko	2202908
	10/16/2020	10/22/2020 08:30	Rasheda Ghaffari	10/27/2020 20:42	Arthur Maknenko	2202910
EPA 8276	10/16/2020	10/22/2020 08:30	Rasheda Ghaffari	10/27/2020 01:39	Michael Poppell	2202908
	10/16/2020	10/22/2020 08:30	Rasheda Ghaffari	10/27/2020 02:34	Michael Poppell	2202910
EPA 8321B	10/16/2020	10/19/2020 10:15	Rebecca Ware	10/19/2020 14:54	Rebecca Ware	2202905
	10/16/2020	10/19/2020 10:15	Rebecca Ware	10/19/2020 15:08	Rebecca Ware	2202907
	10/16/2020	10/19/2020 10:15	Rebecca Ware	10/20/2020 13:12	Rebecca Ware	2202905
	10/16/2020	10/19/2020 10:15	Rebecca Ware	10/20/2020 13:23	Rebecca Ware	2202907
	10/16/2020	10/19/2020 10:15	Rebecca Ware	10/22/2020 04:01	Rebecca Ware	2202905
	10/16/2020	10/19/2020 10:15	Rebecca Ware	10/22/2020 04:13	Rebecca Ware	2202907
	10/16/2020	10/20/2020 13:30	Hoor Shaik	10/21/2020 00:42	Juyoung Kim	2202904
	10/16/2020	10/20/2020 13:30	Hoor Shaik	10/21/2020 01:17	Juyoung Kim	2202906
	10/16/2020	10/20/2020 13:30	Hoor Shaik	10/21/2020 22:38	Juyoung Kim	2202905
	10/16/2020	10/20/2020 13:30	Hoor Shaik	10/22/2020 01:31	Juyoung Kim	2202907
SM 2120 B-2011	10/16/2020			10/16/2020 13:14	Blanca Fach	2202900
SM 2320 B-2011	10/16/2020			10/22/2020 05:38	Samantha Davila	2202900
SM 2540 C-2011	10/16/2020			10/21/2020 15:19	Yijie Li	2202900
SM 2540 D-2011	10/16/2020			10/21/2020 15:19	Yijie Li	2202900
SM 4500 F-C-2011	10/16/2020			10/22/2020 05:38	Samantha Davila	2202900
SM 5310 B-2011	10/16/2020			10/20/2020 07:47	Lauren Lees	2202901