

Chemical Analysis Report

TLH-ROC-2020-10-14-01

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

Event Description: **Run 4a**
Request ID: **RQ-2020-10-12-43**
Customer: **TLH-ROC**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Rd
Tallahassee, FL 32399
Attn: Michael Eckles

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Certified by: Colin Wright, Program Administrator

Date Certified: 04-NOV-2020 09:24

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light gray rectangular 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: Unnamed Branch @ Hardaway Rd 2

Collection Date/Time: 10/14/2020 09:40

Field ID: G2TLHR0041

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2201846	EPA 180.1 Rev. 2.0	Turbidity	6.2		NTU	P388668	
	EPA 300.0 Rev. 2.1	Chloride	3.8		mg Cl/L	P389332	
		Sulfate	0.78		mg SO4/L	P389335	
	SM 2120 B-2011	Color (true)	63	A	PCU	P388688	
	SM 2320 B-2011	Total Alkalinity	3.7		mg CaCO3/L	P388941	
	SM 2540 C-2011	TDS	30		mg/L	P389266	
	SM 2540 D-2011	TSS	4	I	mg/L	P389161	
	SM 4500 F-C-2011	Fluoride	0.040	I	mg F/L	P388955	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.017		mg N/L	P388838	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.33		mg N/L	P389548	MS
2201847	EPA 353.2 Rev. 2.0	NO2NO3-N	0.14		mg N/L	P388803	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P388732	MS
	SM 5310 B-2011	Organic Carbon	4.5		mg C/L	P388946	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.048		mg P/L	P388678	
	dissolved						
2201855	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
2201856		Acesulfame K**	0.10	U	ug/L	P388698	
		2,4-D	0.0020	U	ug/L	P388705	RPD
		AMPA**	0.10	U	ug/L	P388698	
		Sucralose**	0.029	I	ug/L	P388698	
		Acetaminophen**	0.0080	U	ug/L	P388705	
		Acetamiprid**	0.0020	U	ug/L	P388705	
		Endothall**	0.25	U	ug/L	P388698	
		Glufosinate**	0.10	U	ug/L	P388698	
		Glyphosate**	0.10	U	ug/L	P388698	
		Afidopyropen**	0.0020	U	ug/L	P388705	MS, RPD
		Bentazon	8.0E-04	U	ug/L	P388705	MS
		Benzovindiflupyr**	0.0020	U	ug/L	P388705	
		Carbamazepine**	8.0E-04	U	ug/L	P388705	
		Clothianidin**	0.0020	U	ug/L	P388705	
		Dinotefuran**	0.0020	U	ug/L	P388705	
		Diuron	0.0020	U	ug/L	P388705	MS, RPD
		Fenuron	0.016	U	ug/L	P388705	
		Fluridone**	8.0E-04	U	ug/L	P388705	
		Imazapyr**	0.16		ug/L	P388705	

Field ID: G2TLHR0041

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2201856	EPA 8321B	Hydrocodone**	0.0020	U	ug/L	P388705	
		Ibuprofen**	0.020	U	ug/L	P388705	
		Imidacloprid	0.0020	U	ug/L	P388705	
		Linuron	0.0040	U	ug/L	P388705	
		Mandestrobin**	0.0020	U	ug/L	P388705	
		MCP	0.0020	U	ug/L	P388705	
		Naproxen**	0.0080	U	ug/L	P388705	
		Primidone**	0.0040	U	ug/L	P388705	
		Pyraclostrobin**	0.0020	U	ug/L	P388705	
		Thiamethoxam**	0.0020	U	ug/L	P388705	
		Tolfenpyrad**	0.0020	U	ug/L	P388705	
		Triclopyr**	0.0040	U	ug/L	P388705	MS, RPD
2201857	EPA 8270E	Aldrin	4.3	U	ng/L	P388782	
		Alpha-BHC	2.1	U	ng/L	P388782	
		Alpha-Chlordane	1.1	U	ng/L	P388782	
		Beta-BHC	8.5	U	ng/L	P388782	
		Beta-Cyfluthrin**	16	U	ng/L	P388782	
		Bifenthrin**	4.3	U	ng/L	P388782	
		Delta-BHC	8.5	U	ng/L	P388782	
		Gamma-BHC	8.5	U	ng/L	P388782	
		Carbophenothion	11	U	ng/L	P388782	
		Chlorothalonil	2.1	U	ng/L	P388782	
		Cis-Nonachlor**	1.1	U	ng/L	P388782	
		Cypermethrin	21	U	ng/L	P388782	
		Dacthal**	1.1	U	ng/L	P388782	
		DDD-p,p'	5.3	U	ng/L	P388782	
		DDE-p,p'	5.3	U	ng/L	P388782	
		DDT-p,p'	6.4	U	ng/L	P388782	
		Deltamethrin**	21	U	ng/L	P388782	
		Dicofol	32	UJ	ng/L	P388782	MS, RPD
		Dieldrin	4.3	U	ng/L	P388782	
		Endosulfan I	4.3	U	ng/L	P388782	
		Endosulfan II	4.3	UJ	ng/L	P388782	CCV
		Endosulfan Sulfate	2.1	U	ng/L	P388782	
		Endrin	2.1	U	ng/L	P388782	
		Endrin Aldehyde	2.1	U	ng/L	P388782	
		Endrin Ketone	2.1	U	ng/L	P388782	
		Ethalfuralin**	3.2	UJ	ng/L	P388782	MS
		Gamma-Chlordane	1.1	U	ng/L	P388782	
		Dichlobenil**	2.1	U	ng/L	P388782	
		Esfenvalerate**	21	U	ng/L	P388782	
		Fenpropathrin**	11	U	ng/L	P388782	
		Heptachlor	1.6	U	ng/L	P388782	
		Heptachlor Epoxide	2.1	U	ng/L	P388782	
		Hexachlorobenzene	2.1	UJ	ng/L	P388782	MS

Field ID: G2TLHR0041

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2201857	EPA 8270E	Lambda-Cyhalothrin**	16	U	ng/L	P388782	
		Methoxychlor	4.3	U	ng/L	P388782	
		Mirex	2.1	U	ng/L	P388782	
		MGK-264**	3.2	U	ng/L	P388782	
		Permethrin	11	U	ng/L	P388782	
		Phenothrin**	32	U	ng/L	P388782	
		Piperonyl Butoxide**	1.6	UJ	ng/L	P388782	RPD
		Prallethrin**	27	U	ng/L	P388782	
		Tau-Fluvalinate**	3.7	U	ng/L	P388782	
		Tetramethrin**	8.5	U	ng/L	P388782	
		Trans-Nonachlor**	1.1	U	ng/L	P388782	
		Triclosan Methyl**	1.1	U	ng/L	P388782	
		Trifluralin	2.7	UJ	ng/L	P388782	MS
		Chlordane	5.3	U	ng/L	P388782	
		Toxaphene	32	U	ng/L	P388782	
2201858	EPA 8270E	Acetochlor	0.25	U	ng/L	P388612	
		Alachlor	0.25	U	ng/L	P388612	
		Ametryn	0.59	U	ng/L	P388612	
		Atrazine	0.25	U	ng/L	P388612	
		Atrazine Desethyl	1.5	U	ng/L	P388612	
		Azinphos Methyl	2.0	UJ	ng/L	P388612	LCS, MS, RPD
		Bromacil	0.50	U	ng/L	P388612	
		Butylate	0.40	U	ng/L	P388612	
		Carbophenothion	0.50	U	ng/L	P388612	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P388612	
		Chlorpyrifos Methyl	0.050	U	ng/L	P388612	
		Cyanazine	3.2	U	ng/L	P388612	
		Demeton	1.5	U	ng/L	P388612	
		Diazinon	0.12	U	ng/L	P388612	
		Dimethenamid**	0.099	U	ng/L	P388612	
		Disulfoton	0.50	U	ng/L	P388612	
		Dithiopyr**	0.099	U	ng/L	P388612	
		EPTC	1.2	U	ng/L	P388612	
		Ethion	0.15	U	ng/L	P388612	
		Ethoprop	0.099	U	ng/L	P388612	
		Fenamiphos	0.50	U	ng/L	P388612	
		Fipronil	0.25	U	ng/L	P388612	
		Fipronil Desulfinyl**	0.12	U	ng/L	P388612	
		Fipronil Sulfide	0.15	U	ng/L	P388612	
		Fipronil Sulfone	0.15	U	ng/L	P388612	
		Flumioxazin**	1.7	U	ng/L	P388612	
		Fonofos	0.20	U	ng/L	P388612	
		Hexazinone	0.50	U	ng/L	P388612	
		Imazalil**	0.74	U	ng/L	P388612	RPD

Field ID: G2TLHR0041

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2201858	EPA 8270E	Malathion	0.35	U	ng/L	P388612	
		Metalaxyl	0.74	U	ng/L	P388612	
		Metolachlor	0.50	U	ng/L	P388612	
		Metribuzin	3.2	U	ng/L	P388612	
		Mevinphos	0.50	U	ng/L	P388612	
		Molinate	0.30	U	ng/L	P388612	
		Naled**	1.5	U	ng/L	P388612	
		Norflurazon	0.50	U	ng/L	P388612	
		Oxadiazon	0.099	U	ng/L	P388612	
		Parathion Ethyl	0.25	U	ng/L	P388612	
		Parathion Methyl	0.55	U	ng/L	P388612	
		Pendimethalin	0.99	U	ng/L	P388612	
		Phorate	0.25	U	ng/L	P388612	
		Prodiamine**	0.17	U	ng/L	P388612	
		Prometon	0.89	U	ng/L	P388612	
		Prometryn	0.20	U	ng/L	P388612	
		Pronamide**	0.15	U	ng/L	P388612	
		Propiconazole**	0.50	U	ng/L	P388612	
		Simazine	0.50	U	ng/L	P388612	
		Sulfentrazone**	0.50	U	ng/L	P388612	
		Tebuconazole**	0.50	U	ng/L	P388612	
		Terbufos	0.099	U	ng/L	P388612	
		Terbuthylazine	0.42	U	ng/L	P388612	
2201859	EPA 200.7 Rev. 4.4	Barium	13.7		ug/L	P388667	
		Calcium	1.56		mg/L	P388667	
		Iron	1.14E+03		ug/L	P388667	
		Magnesium	0.86		mg/L	P388667	
		Potassium	0.50	I	mg/L	P388667	
		Sodium	2.1		mg/L	P388667	
		Zinc	5.0	U	ug/L	P388667	
	EPA 200.8 Rev. 5.4	Aluminum	268		ug/L	P388667	
		Antimony	0.050	U	ug/L	P388667	
		Arsenic	0.93		ug/L	P388667	
		Boron**	10.4		ug/L	P388667	
		Cadmium	0.020	U	ug/L	P388667	
		Chromium	0.54	I	ug/L	P388667	
		Copper	0.40	U	ug/L	P388667	
		Lead	0.23	I	ug/L	P388667	
		Nickel	0.50	U	ug/L	P388667	
		Selenium	0.20	U	ug/L	P388667	
		Silver	0.010	U	ug/L	P388667	
		Thallium	0.10	U	ug/L	P388667	
		Hardness	7.4		mg/L	P388667	

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.

Sample Location: Unnamed Branch @ Flat Creek Rd

Collection Date/Time: 10/14/2020 09:10

Field ID: G2TLHR0031

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2201843	EPA 180.1 Rev. 2.0	Turbidity	6.8		NTU	P388668	
	EPA 300.0 Rev. 2.1	Chloride	4.8	A	mg Cl/L	P389332	
		Sulfate	1.4	A	mg SO4/L	P389335	
	SM 2120 B-2011	Color (true)	55		PCU	P388688	
	SM 2320 B-2011	Total Alkalinity	55		mg CaCO3/L	P388941	
	SM 2540 C-2011	TDS	70		mg/L	P389266	
	SM 2540 D-2011	TSS	4	I	mg/L	P389161	
	SM 4500 F-C-2011	Fluoride	0.10		mg F/L	P388955	
2201844	EPA 350.1 Rev. 2.0	Ammonia-N	0.015		mg N/L	P388838	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.20	I	mg N/L	P389326	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.13		mg N/L	P388803	
	EPA 365.1 Rev. 2.0	Total-P	0.066		mg P/L	P388732	MS
	SM 5310 B-2011	Organic Carbon	4.0		mg C/L	P388946	
2201845	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.029		mg P/L	P388678	
2201854	EPA 8321B	2,4-D	0.0020	U	ug/L	P388626	
		Acesulfame K**	0.10	U	ug/L	P388698	
		AMPA**	0.10	U	ug/L	P388698	
		Sucralose**	0.061		ug/L	P388698	
		Acetaminophen**	0.0080	U	ug/L	P388626	
		Acetamiprid**	0.0020	U	ug/L	P388626	
		Endothall**	0.25	U	ug/L	P388698	
		Glufosinate**	0.10	U	ug/L	P388698	
		Glyphosate**	0.10	U	ug/L	P388698	
		Afidopyropen**	0.0020	U	ug/L	P388626	
		Bentazon	8.0E-04	U	ug/L	P388626	
		Benzovindiflupyr**	0.0020	U	ug/L	P388626	
		Carbamazepine**	8.0E-04	U	ug/L	P388626	
		Clothianidin**	0.0020	U	ug/L	P388626	
		Dinotefuran**	0.0020	U	ug/L	P388626	
		Diuron	0.0020	U	ug/L	P388626	MS
		Fenuron	0.016	U	ug/L	P388626	
		Fluridone**	8.0E-04	U	ug/L	P388626	
		Imazapyr**	0.0040	U	ug/L	P388626	
		Hydrocodone**	0.0020	U	ug/L	P388626	
		Ibuprofen**	0.020	U	ug/L	P388626	
		Imidacloprid	0.0020	U	ug/L	P388626	
		Linuron	0.0040	U	ug/L	P388626	
		Mandestrobin**	0.0020	U	ug/L	P388626	
		MCP	0.0020	U	ug/L	P388626	
		Naproxen**	0.0080	U	ug/L	P388626	
		Primidone**	0.0040	U	ug/L	P388626	
		Pyraclostrobin**	0.0020	U	ug/L	P388626	
		Thiamethoxam**	0.0020	U	ug/L	P388626	

Field ID: G2TLHR0031

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2201854	EPA 8321B	Tolfenpyrad**	0.0020	U	ug/L	P388626	
		Triclopyr**	0.0040	U	ug/L	P388626	

Ref. Method and Comment:

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P388668

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P388667

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: P388667

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P389332

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P389335

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P388838

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: P389326

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P389548

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P388803

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P388732

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P388678

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

Reference Method: EPA 8270E
Batch ID: P388612

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
Batch ID: P388612

Component	Result	Code	Units
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
Terbutylazine	0.42	U	ng/L

Reference Method: EPA 8270E
Batch ID: P388782

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
Carbophenothion	10	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P388782

Component	Result	Code	Units
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
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: P388782

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

Reference Method: EPA 8321B
Batch ID: P388626

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P388626

Component	Result	Code	Units
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: P388698

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: P388705

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
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P388705

Component	Result	Code	Units
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: P388688

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P388941

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

Reference Method: SM 2540 C-2011
Batch ID: P389266

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P389161

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P388955

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: P388946

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: P388667

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	105		P	85 - 115
Calcium	106		P	85 - 115
Iron	105		P	85 - 115
Magnesium	105		P	85 - 115
Potassium	103		P	85 - 115
Sodium	106		P	85 - 115
Zinc	102		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P388667

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	102		P	85 - 115
Antimony	102		P	85 - 115
Arsenic	101		P	85 - 115
Boron	103		P	85 - 115
Cadmium	102		P	85 - 115
Chromium	100		P	85 - 115
Copper	101		P	85 - 115
Lead	97.8		P	85 - 115
Nickel	99.8		P	85 - 115
Selenium	99.1		P	85 - 115
Silver	99.9		P	85 - 115
Thallium	100		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P389332

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P389335

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P388838

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: P389326

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P389548

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

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P388803

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P388732

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P388678

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	97.7		P	90 - 110

Reference Method: EPA 8270E
 Batch ID: P388612

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	82.5	88.0	P/P	71 - 122
Alachlor	83.8	87.0	P/P	70 - 121
Ametryn	92.1	90.1	P/P	49 - 137
Atrazine	89.7	90.5	P/P	76 - 125
Atrazine Desethyl	71.9	73.2	P/P	31 - 144
Azinphos Methyl	56.9	55.6	F/F	67 - 150
Bromacil	78.6	81.8	P/P	36 - 121
Butylate	51.4	50.6	P/P	33 - 88.0
Carbophenothion	87.9	89.2	P/P	66 - 116
Chlorpyrifos Ethyl	84.8	85.9	P/P	73 - 117
Chlorpyrifos Methyl	97.1	96.9	P/P	68 - 121
Cyanazine	102	103	P/P	20 - 250
Demeton	81.6	84.1	P/P	30 - 123
Diazinon	88.2	90.8	P/P	70 - 128
Dimethenamid	83.4	87.1	P/P	66 - 122
Disulfoton	83.6	83.0	P/P	46 - 124
Dithiopyr	78.3	81.1	P/P	69 - 122
EPTC	48.4	47.2	P/P	31 - 90.0
Ethion	69.8	70.9	P/P	45 - 135
Ethoprop	85.4	85.0	P/P	59 - 118
Fenamiphos	85.8	86.0	P/P	30 - 136
Fipronil	89.1	93.7	P/P	57 - 127
Fipronil Desulfinyl	86.8	93.5	P/P	51 - 122
Fipronil Sulfide	87.6	89.0	P/P	57 - 119
Fipronil Sulfone	91.9	94.2	P/P	51 - 119
Flumioxazin	99.8	96.8	P/P	20 - 250
Fonofos	80.0	84.0	P/P	60 - 120
Hexazinone	82.6	82.9	P/P	57 - 142

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P388612

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Imazalil	104	82.8	P/P	30 - 139
Malathion	106	106	P/P	67 - 128
Metalaxyl	81.6	82.9	P/P	21 - 148
Metolachlor	79.1	81.4	P/P	70 - 120
Metribuzin	89.3	93.8	P/P	20 - 250
Mevinphos	83.7	84.3	P/P	47 - 116
Molinate	62.0	61.1	P/P	41 - 99.0
Naled	48.6	48.5	P/P	38 - 97.0
Norflurazon	75.7	79.0	P/P	54 - 127
Oxadiazon	78.5	80.7	P/P	65 - 122
Parathion Ethyl	83.3	82.5	P/P	71 - 113
Parathion Methyl	101	99.5	P/P	73 - 129
Pendimethalin	66.7	68.4	P/P	63 - 130
Phorate	81.6	82.8	P/P	48 - 118
Prodiamine	49.7	54.9	P/P	20 - 144
Prometon	85.2	86.2	P/P	53 - 120
Prometryn	88.3	92.4	P/P	63 - 119
Pronamide	84.6	89.8	P/P	81 - 122
Propiconazole	79.3	82.2	P/P	62 - 124
Simazine	90.5	97.2	P/P	77 - 129
Sulfentrazone	75.5	80.5	P/P	20 - 137
Tebuconazole	31.9	32.9	P/P	20 - 118
Terbufos	83.4	82.9	P/P	61 - 119
Terbutylazine	86.7	89.4	P/P	75 - 119

Reference Method: EPA 8270E

Batch ID: P388782

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	44.6	41.2	P/P	20 - 87.0
Alpha-BHC	80.9	81.0	P/P	65 - 142
Alpha-Chlordane	80.7	84.7	P/P	58 - 106
Beta-BHC	80.6	89.2	P/P	65 - 179
Beta-Cyfluthrin	83.9	82.6	P/P	39 - 153
Bifenthrin	84.0	81.8	P/P	38 - 128
Carbophenothion	77.0	70.1	P/P	20 - 144
Chlorothalonil	70.6	54.3	P/P	20 - 214
Cis-Nonachlor	83.9	87.0	P/P	56 - 113
Cypermethrin	92.5	85.5	P/P	37 - 130
Dacthal	92.2	96.6	P/P	75 - 109
DDD-p,p'	86.8	91.0	P/P	66 - 119
DDE-p,p'	76.6	81.4	P/P	53 - 108
DDT-p,p'	89.3	87.6	P/P	57 - 133
Delta-BHC	113	114	P/P	68 - 187
Deltamethrin	90.9	117	P/P	50 - 200
Dichlobenil	37.5	36.0	P/P	25 - 140
Dicofol	92.6	96.7	P/P	66 - 123
Dieldrin	87.1	87.7	P/P	65 - 111
Endosulfan I	99.4	95.8	P/P	65 - 115
Endosulfan II	107	116	P/P	68 - 133
Endosulfan Sulfate	89.4	86.4	P/P	62 - 127
Endrin	98.4	95.2	P/P	64 - 122

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P388782

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endrin Aldehyde	85.7	97.4	P/P	61 - 132
Endrin Ketone	89.2	87.4	P/P	66 - 120
Esfenvalerate	75.7	72.5	P/P	50 - 150
Ethalfuralin	74.1	72.0	P/P	57 - 127
Fenpropathrin	88.8	82.3	P/P	60 - 160
Gamma-BHC	83.6	93.2	P/P	71 - 158
Gamma-Chlordane	77.9	80.3	P/P	53 - 106
Heptachlor	73.5	74.6	P/P	45 - 96.0
Heptachlor Epoxide	84.4	86.7	P/P	64 - 109
Hexachlorobenzene	70.9	69.2	P/P	46 - 103
Lambda-Cyhalothrin	94.1	91.0	P/P	38 - 145
Methoxychlor	91.2	91.2	P/P	69 - 149
MGK-264	53.2	53.0	P/P	50 - 150
Mirex	77.0	75.7	P/P	31 - 90.0
Permethrin	77.3	83.5	P/P	41 - 108
Phenothrin	50.9	46.9	P/P	22 - 91.0
Piperonyl Butoxide	99.6	107	P/P	50 - 150
Prallethrin	55.8	58.2	P/P	32 - 92.0
Tau-Fluvalinate	92.1	89.6	P/P	50 - 150
Tetramethrin	156	149	P/P	60 - 160
Trans-Nonachlor	80.5	82.4	P/P	50 - 107
Triclosan Methyl	89.6	95.8	P/P	50 - 150
Trifluralin	74.4	70.7	P/P	58 - 119

Reference Method: EPA 8276

Batch ID: P388782

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	92.9	93.0	P/P	47 - 119
Toxaphene	91.9	86.7	P/P	41 - 112

Reference Method: EPA 8321B

Batch ID: P388626

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	66.5		P	30 - 160
Acetaminophen	78.3		P	30 - 160
Acetamiprid	62.1		P	30 - 160
Afidopyropen	54.0		P	30 - 160
Bentazon	40.4		P	30 - 160
Benzovindiflupyr	53.3		P	30 - 160
Carbamazepine	51.1		P	30 - 160
Clothianidin	67.4		P	30 - 160
Dinotefuran	63.2		P	30 - 160
Diuron	36.8		P	30 - 160
Fenuron	81.2		P	30 - 160
Fluridone	63.6		P	30 - 160
Hydrocodone	64.3		P	30 - 160
Ibuprofen	64.0		P	30 - 160
Imazapyr	71.1		P	30 - 160
Imidacloprid	70.7		P	30 - 160
Linuron	55.4		P	30 - 160

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P388626

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Mandestrobin	66.7		P	30 - 160
MCP	64.6		P	30 - 160
Naproxen	39.2		P	30 - 160
Primidone	66.0		P	30 - 160
Pyraclostrobin	71.1		P	30 - 160
Thiamethoxam	66.4		P	30 - 160
Tolfeprad	37.7		P	30 - 160
Triclopr	50.5		P	30 - 160

Reference Method: EPA 8321B

Batch ID: P388698

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	74.3		P	40 - 150
AMPA	119		P	40 - 150
Endothall	98.1		P	40 - 150
Glufosinate	110		P	40 - 150
Glyphosate	108		P	40 - 140
Sucralose	121		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P388705

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	99.2		P	30 - 160
Acetaminophen	80.4		P	30 - 160
Acetamiprid	68.8		P	30 - 160
Afidopyropen	30.5		P	30 - 160
Bentazon	45.8		P	30 - 160
Benzovindiflupyr	63.9		P	30 - 160
Carbamazepine	49.6		P	30 - 160
Clothianidin	63.9		P	30 - 160
Dinotefuran	74.9		P	30 - 160
Diuron	37.2		P	30 - 160
Fenuron	89.8		P	30 - 160
Fluridone	65.1		P	30 - 160
Hydrocodone	92.8		P	30 - 160
Ibuprofen	60.4		P	30 - 160
Imazapyr	90.9		P	30 - 160
Imidacloprid	87.8		P	30 - 160
Linuron	42.7		P	30 - 160
Mandestrobin	67.3		P	30 - 160
MCP	61.3		P	30 - 160
Naproxen	51.6		P	30 - 160
Primidone	70.3		P	30 - 160
Pyraclostrobin	58.5		P	30 - 160
Thiamethoxam	89.3		P	30 - 160
Tolfeprad	40.9		P	30 - 160
Triclopr	55.6		P	30 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

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: P388688

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

Reference Method: SM 2320 B-2011
Batch ID: P388941

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

Reference Method: SM 4500 F-C-2011
Batch ID: P388955

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.5		P	90 - 106

Reference Method: SM 5310 B-2011
Batch ID: P388946

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P388667

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2201859	Barium	104	103	P/P	80 - 120
2201859	Calcium	106	101	P/P	80 - 120
2201859	Iron	108	103	P/P	80 - 120
2201859	Magnesium	108	104	P/P	80 - 120
2201859	Potassium	102	100	P/P	80 - 120
2201859	Sodium	102	101	P/P	80 - 120
2201859	Zinc	102	101	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P388667

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2201859	Aluminum	102	104	P/P	80 - 120
2201859	Antimony	102	100	P/P	80 - 120
2201859	Arsenic	100	101	P/P	80 - 120
2201859	Boron	104	104	P/P	80 - 120
2201859	Cadmium	104	105	P/P	80 - 120
2201859	Chromium	98.8	98.9	P/P	80 - 120
2201859	Copper	101	101	P/P	80 - 120
2201859	Lead	99.0	98.6	P/P	80 - 120
2201859	Nickel	101	100	P/P	80 - 120
2201859	Selenium	98.6	99.4	P/P	80 - 120
2201859	Silver	99.8	98.8	P/P	80 - 120
2201859	Thallium	103	104	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P389332

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2201843	Chloride	101		P	90 - 110
2202392	Chloride	103		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P389335

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2201843	Sulfate	102		P	90 - 110
2202392	Sulfate	104		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P388838

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2201844	Ammonia-N	102	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P389326

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2201844	Kjeldahl Nitrogen	105	101	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P389548

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2204977	Kjeldahl Nitrogen	106	114	P/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P388803

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2201835	NO2NO3-N	99.5	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P388732

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2201749	Total-P	115	107	F/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P388678

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2201845	O-Phosphate-P	99.8	98.8	P/P	90 - 110

Reference Method: EPA 8270E
 Batch ID: P388612

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2201403	Acetochlor	87.9	86.3	P/P	68 - 126
2201403	Alachlor	87.7	85.3	P/P	66 - 125
2201403	Ametryn	91.0	113	P/P	31 - 182
2201403	Atrazine	95.7	93.0	P/P	68 - 137
2201403	Atrazine Desethyl	83.2	81.9	P/P	13 - 161
2201403	Azinphos Methyl	62.2	36.0	P/F	54 - 162
2201403	Bromacil	83.4	74.4	P/P	34 - 144
2201403	Butylate	47.2	47.1	P/P	16 - 92.0
2201403	Carbophenothion	86.4	89.0	P/P	30 - 131
2201403	Chlorpyrifos Ethyl	83.1	84.8	P/P	63 - 124
2201403	Chlorpyrifos Methyl	92.3	91.0	P/P	64 - 125
2201403	Cyanazine	105	97.3	P/P	13 - 245
2201403	Demeton	87.1	83.2	P/P	20 - 154
2201403	Diazinon	90.1	90.4	P/P	66 - 141
2201403	Dimethenamid	87.2	86.5	P/P	50 - 130
2201403	Disulfoton	81.7	86.1	P/P	55 - 130
2201403	Dithiopyr	81.7	81.3	P/P	66 - 122
2201403	EPTC	44.2	45.3	P/P	15 - 93.0
2201403	Ethion	67.1	62.7	P/P	15 - 148
2201403	Ethoprop	93.5	95.7	P/P	59 - 126
2201403	Fenamiphos	75.0	82.0	P/P	39 - 137
2201403	Fipronil	94.8	89.4	P/P	47 - 131
2201403	Fipronil Desulfinyl	92.6	92.7	P/P	43 - 121
2201403	Fipronil Sulfide	90.3	87.5	P/P	29 - 134
2201403	Fipronil Sulfone	94.0	93.5	P/P	19 - 131
2201403	Flumioxazin	122	111	P/P	10 - 300
2201403	Fonofos	89.0	88.6	P/P	62 - 128
2201403	Hexazinone	79.5	82.1	P/P	58 - 154

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P388612

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2201403	Imazalil	81.6	137	P/P	10 - 215
2201403	Malathion	109	105	P/P	54 - 135
2201403	Metalaxyl	82.4	81.4	P/P	46 - 136
2201403	Metolachlor	77.3	75.8	P/P	62 - 126
2201403	Metribuzin	93.9	94.4	P/P	44 - 277
2201403	Mevinphos	95.3	95.3	P/P	44 - 135
2201403	Molinate	61.2	61.6	P/P	31 - 104
2201403	Naled	48.2	48.4	P/P	33 - 113
2201403	Norflurazon	78.4	75.0	P/P	32 - 134
2201403	Oxadiazon	76.6	75.8	P/P	55 - 123
2201403	Parathion Ethyl	86.5	86.5	P/P	67 - 120
2201403	Parathion Methyl	101	99.5	P/P	70 - 140
2201403	Pendimethalin	75.8	72.6	P/P	59 - 145
2201403	Phorate	76.1	79.8	P/P	52 - 127
2201403	Prodiamine	55.9	51.5	P/P	11 - 157
2201403	Prometon	87.0	84.5	P/P	55 - 130
2201403	Prometryn	94.2	94.2	P/P	55 - 127
2201403	Pronamide	88.2	89.8	P/P	66 - 150
2201403	Propiconazole	90.4	88.2	P/P	14 - 178
2201403	Simazine	103	96.2	P/P	58 - 159
2201403	Sulfentrazone	78.2	74.2	P/P	21 - 144
2201403	Tebuconazole	34.6	32.8	P/P	10 - 122
2201403	Terbufos	87.0	87.8	P/P	65 - 131
2201403	Terbutylazine	90.5	90.2	P/P	63 - 131

Reference Method: EPA 8270E
Batch ID: P388782

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2201857	Aldrin	40.6	39.6	P/P	32 - 82.0
2201857	Alpha-BHC	74.3	78.3	P/P	68 - 157
2201857	Alpha-Chlordane	58.4	58.6	P/P	54 - 108
2201857	Beta-BHC	87.7	92.3	P/P	54 - 200
2201857	Beta-Cyfluthrin	82.9	77.0	P/P	50 - 154
2201857	Bifenthrin	69.6	74.8	P/P	49 - 124
2201857	Carbophenothion	59.7	62.5	P/P	42 - 173
2201857	Chlorothalonil	188	192	P/P	10 - 289
2201857	Cis-Nonachlor	63.7	65.6	P/P	53 - 112
2201857	Cypermethrin	84.0	85.3	P/P	43 - 141
2201857	Dacthal	78.3	80.0	P/P	75 - 112
2201857	DDD-p,p'	61.7	62.2	P/P	58 - 125
2201857	DDE-p,p'	51.1	52.0	P/P	50 - 108
2201857	DDT-p,p'	61.8	59.9	P/P	52 - 140
2201857	Delta-BHC	121	138	P/P	61 - 228
2201857	Deltamethrin	95.0	105	P/P	50 - 200
2201857	Dichlobenil	51.6	57.6	P/P	25 - 140
2201857	Dicofol	50.0	67.7	F/P	59 - 130
2201857	Dieldrin	61.8	62.0	P/P	57 - 121
2201857	Endosulfan I	72.9	76.1	P/P	62 - 123
2201857	Endosulfan II	83.6	107	P/P	48 - 163
2201857	Endosulfan Sulfate	79.9	86.4	P/P	63 - 132
2201857	Endrin	69.1	71.8	P/P	58 - 128

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P388782

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2201857	Endrin Aldehyde	113	114	P/P	44 - 126
2201857	Endrin Ketone	79.9	85.0	P/P	68 - 127
2201857	Esfenvalerate	64.0	67.3	P/P	50 - 150
2201857	Ethalfuralin	54.1	52.6	F/F	55 - 131
2201857	Fenpropathrin	117	110	P/P	60 - 160
2201857	Gamma-BHC	95.6	95.5	P/P	54 - 206
2201857	Gamma-Chlordane	56.9	56.7	P/P	52 - 105
2201857	Heptachlor	53.8	48.3	P/P	47 - 94.0
2201857	Heptachlor Epoxide	62.0	62.7	P/P	61 - 113
2201857	Hexachlorobenzene	44.5	46.0	F/P	45 - 100
2201857	Lambda-Cyhalothrin	93.4	99.2	P/P	37 - 165
2201857	Methoxychlor	84.0	80.7	P/P	63 - 153
2201857	MGK-264	63.5	65.5	P/P	50 - 150
2201857	Mirex	60.6	60.7	P/P	38 - 90.0
2201857	Permethrin	60.1	70.8	P/P	45 - 112
2201857	Phenothrin	48.2	49.8	P/P	22 - 118
2201857	Piperonyl Butoxide	81.9	54.9	P/P	50 - 150
2201857	Prallethrin	46.2	55.2	P/P	21 - 114
2201857	Tau-Fluvalinate	92.6	95.5	P/P	50 - 150
2201857	Tetramethrin	144	159	P/P	60 - 160
2201857	Trans-Nonachlor	57.8	58.4	P/P	50 - 103
2201857	Triclosan Methyl	59.3	61.9	P/P	50 - 150
2201857	Trifluralin	50.8	49.7	F/F	57 - 122

Reference Method: EPA 8276
Batch ID: P388782

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2202152	Chlordane	90.1	96.6	P/P	34 - 129
2202152	Toxaphene	144	133	P/P	16 - 148

Reference Method: EPA 8321B
Batch ID: P388626

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2201729	2,4-D	64.4	73.7	P/P	30 - 160
2201729	Acetaminophen	80.5	81.7	P/P	30 - 160
2201729	Acetamiprid	61.4	65.9	P/P	30 - 160
2201729	Afidopyropen	46.8	56.0	P/P	30 - 160
2201729	Bentazon	33.2	38.3	P/P	30 - 160
2201729	Benzovindiflupyr	47.0	54.0	P/P	30 - 160
2201729	Carbamazepine	46.7	50.0	P/P	30 - 160
2201729	Clothianidin	69.1	71.5	P/P	30 - 160
2201729	Dinotefuran	74.8	72.5	P/P	30 - 160
2201729	Diuron	29.7	35.7	F/P	30 - 160
2201729	Fenuron	70.6	73.8	P/P	30 - 160
2201729	Fluridone	62.4	63.4	P/P	30 - 160
2201729	Hydrocodone	64.4	67.1	P/P	30 - 160
2201729	Ibuprofen	44.6	59.0	P/P	30 - 160
2201729	Imazapyr	91.0	92.9	P/P	30 - 160
2201729	Imidacloprid	87.6	102	P/P	30 - 160
2201729	Linuron	55.3	56.6	P/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P388626

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2201729	Mandestrobin	56.5	66.6	P/P	30 - 160
2201729	MCCP	54.5	61.3	P/P	30 - 160
2201729	Naproxen	54.9	72.1	P/P	30 - 160
2201729	Primidone	60.3	59.7	P/P	30 - 160
2201729	Pyraclostrobin	67.4	72.1	P/P	30 - 160
2201729	Thiamethoxam	81.6	89.1	P/P	30 - 160
2201729	Tolfenpyrad	38.2	35.9	P/P	30 - 160
2201729	Triclopyr	50.6	52.7	P/P	30 - 160

Reference Method: EPA 8321B
Batch ID: P388698

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2201778	Acesulfame K	56.0	53.5	P/P	40 - 150
2201778	AMPA	129	125	P/P	40 - 150
2201778	Endothall	87.4	89.9	P/P	40 - 150
2201778	Glufosinate	98.2	96.7	P/P	40 - 150
2201778	Glyphosate	92.7	84.9	P/P	40 - 140
2201778	Sucralose	120	116	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P388705

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2201953	2,4-D	60.7	85.5	P/P	30 - 160
2201953	Acetaminophen	91.1	96.9	P/P	30 - 160
2201953	Acetamiprid	67.6	74.3	P/P	30 - 160
2201953	Afidopyropen	22.4	30.5	F/P	30 - 160
2201953	Bentazon	25.0	36.1	F/P	30 - 160
2201953	Benzovindiflupyr	52.9	63.2	P/P	30 - 160
2201953	Carbamazepine	38.9	50.0	P/P	30 - 160
2201953	Clothianidin	52.6	65.8	P/P	30 - 160
2201953	Dinotefuran	75.6	90.6	P/P	30 - 160
2201953	Diuron	26.4	36.4	F/P	30 - 160
2201953	Fenuron	76.0	83.3	P/P	30 - 160
2201953	Fluridone	59.9	66.2	P/P	30 - 160
2201953	Hydrocodone	70.5	90.5	P/P	30 - 160
2201953	Ibuprofen	57.1	65.6	P/P	30 - 160
2201953	Imazapyr	75.7	75.5	P/P	30 - 160
2201953	Imidacloprid	103	107	P/P	30 - 160
2201953	Linuron	40.6	45.3	P/P	30 - 160
2201953	Mandestrobin	65.0	74.6	P/P	30 - 160
2201953	MCCP	48.3	65.3	P/P	30 - 160
2201953	Naproxen	36.3	32.2	P/P	30 - 160
2201953	Primidone	64.3	71.1	P/P	30 - 160
2201953	Pyraclostrobin	53.0	57.8	P/P	30 - 160
2201953	Thiamethoxam	85.2	112	P/P	30 - 160
2201953	Tolfenpyrad	32.2	38.4	P/P	30 - 160
2201953	Triclopyr	28.8	54.2	F/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

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: P388955

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2201327	Fluoride	100	100	P/P	94 - 107

Reference Method: SM 5310 B-2011

Batch ID: P388946

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2202003	Organic Carbon	101		P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P388668

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2201684	Turbidity	1.19	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P388667

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2201859	Barium	1.46	Spike	P	0 - 20
2201859	Calcium	3.95	Spike	P	0 - 20
2201859	Iron	3.78	Spike	P	0 - 20
2201859	Magnesium	3.03	Spike	P	0 - 20
2201859	Potassium	1.79	Spike	P	0 - 20
2201859	Sodium	0.732	Spike	P	0 - 20
2201859	Zinc	1.40	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P388667

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2201859	Aluminum	1.36	Spike	P	0 - 20
2201859	Antimony	1.05	Spike	P	0 - 20
2201859	Arsenic	0.748	Spike	P	0 - 20
2201859	Boron	0.540	Spike	P	0 - 20
2201859	Cadmium	0.263	Spike	P	0 - 20
2201859	Chromium	0.139	Spike	P	0 - 20
2201859	Copper	0.0152	Spike	P	0 - 20
2201859	Lead	0.414	Spike	P	0 - 20
2201859	Nickel	0.920	Spike	P	0 - 20
2201859	Selenium	0.901	Spike	P	0 - 20
2201859	Silver	1.03	Spike	P	0 - 20
2201859	Thallium	0.619	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P389332

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2201843	Chloride	0.549	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P389335

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2201843	Sulfate	0.477	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P388838

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2201844	Ammonia-N	0.602	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P389326

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2201844	Kjeldahl Nitrogen	3.31	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P389548

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2204977	Kjeldahl Nitrogen	5.93	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P388803

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2201835	NO2NO3-N	0.501	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P388732

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2201749	Total-P	6.02	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P388678

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2201845	O-Phosphate-P	0.778	Spike	P	0 - 20

Reference Method: EPA 8270E
 Batch ID: P388612

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2201403	Acetochlor	1.75	Spike	P	0 - 30
2201403	Alachlor	2.70	Spike	P	0 - 30
2201403	Ametryn	21.5	Spike	P	0 - 30
2201403	Atrazine	1.99	Spike	P	0 - 30
2201403	Atrazine Desethyl	1.63	Spike	P	0 - 30
2201403	Azinphos Methyl	53.2	Spike	F	0 - 30
2201403	Bromacil	11.3	Spike	P	0 - 30
2201403	Butylate	0.243	Spike	P	0 - 30
2201403	Carbophenothion	3.03	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P388612

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2201403	Chlorpyrifos Ethyl	2.04	Spike	P	0 - 30
2201403	Chlorpyrifos Methyl	1.41	Spike	P	0 - 30
2201403	Cyanazine	7.80	Spike	P	0 - 30
2201403	Demeton	4.66	Spike	P	0 - 30
2201403	Diazinon	0.285	Spike	P	0 - 30
2201403	Dimethenamid	0.766	Spike	P	0 - 30
2201403	Disulfoton	5.26	Spike	P	0 - 30
2201403	Dithiopyr	0.500	Spike	P	0 - 30
2201403	EPTC	2.48	Spike	P	0 - 30
2201403	Ethion	6.83	Spike	P	0 - 30
2201403	Ethoprop	2.37	Spike	P	0 - 30
2201403	Fenamiphos	8.99	Spike	P	0 - 30
2201403	Fipronil	5.87	Spike	P	0 - 30
2201403	Fipronil Desulfinyl	0.109	Spike	P	0 - 30
2201403	Fipronil Sulfide	3.20	Spike	P	0 - 30
2201403	Fipronil Sulfone	0.525	Spike	P	0 - 30
2201403	Flumioxazin	9.36	Spike	P	0 - 30
2201403	Fonofos	0.428	Spike	P	0 - 30
2201403	Hexazinone	2.88	Spike	P	0 - 30
2201403	Imazalil	50.9	Spike	F	0 - 30
2201403	Malathion	4.49	Spike	P	0 - 30
2201403	Metalaxyl	1.17	Spike	P	0 - 30
2201403	Metolachlor	1.45	Spike	P	0 - 30
2201403	Metribuzin	0.568	Spike	P	0 - 30
2201403	Mevinphos	0.00131	Spike	P	0 - 30
2201403	Molinate	0.639	Spike	P	0 - 30
2201403	Naled	0.564	Spike	P	0 - 30
2201403	Norflurazon	4.50	Spike	P	0 - 30
2201403	Oxadiazon	1.09	Spike	P	0 - 30
2201403	Parathion Ethyl	0.0636	Spike	P	0 - 30
2201403	Parathion Methyl	1.31	Spike	P	0 - 30
2201403	Pendimethalin	4.36	Spike	P	0 - 30
2201403	Phorate	4.81	Spike	P	0 - 30
2201403	Prodiamine	8.22	Spike	P	0 - 30
2201403	Prometon	2.90	Spike	P	0 - 30
2201403	Prometryn	0.0279	Spike	P	0 - 30
2201403	Pronamide	1.79	Spike	P	0 - 30
2201403	Propiconazole	1.45	Spike	P	0 - 30
2201403	Simazine	6.75	Spike	P	0 - 30
2201403	Sulfentrazone	5.23	Spike	P	0 - 30
2201403	Tebuconazole	5.41	Spike	P	0 - 30
2201403	Terbufos	0.896	Spike	P	0 - 30
2201403	Terbutylazine	0.419	Spike	P	0 - 30
LFB	Acetochlor	6.43	LCS	P	0 - 30
LFB	Alachlor	3.69	LCS	P	0 - 30
LFB	Ametryn	2.28	LCS	P	0 - 30
LFB	Atrazine	0.916	LCS	P	0 - 30
LFB	Atrazine Desethyl	1.69	LCS	P	0 - 30
LFB	Azinphos Methyl	2.19	LCS	P	0 - 30
LFB	Bromacil	3.93	LCS	P	0 - 30
LFB	Butylate	1.71	LCS	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P388612

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Carbophenothion	1.44	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	1.25	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	0.227	LCS	P	0 - 30
LFB	Cyanazine	0.763	LCS	P	0 - 30
LFB	Demeton	3.03	LCS	P	0 - 30
LFB	Diazinon	2.87	LCS	P	0 - 30
LFB	Dimethenamid	4.31	LCS	P	0 - 30
LFB	Disulfoton	0.722	LCS	P	0 - 30
LFB	Dithiopyr	3.56	LCS	P	0 - 30
LFB	EPTC	2.54	LCS	P	0 - 30
LFB	Ethion	1.46	LCS	P	0 - 30
LFB	Ethoprop	0.471	LCS	P	0 - 30
LFB	Fenamiphos	0.304	LCS	P	0 - 30
LFB	Fipronil	5.00	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	7.44	LCS	P	0 - 30
LFB	Fipronil Sulfide	1.61	LCS	P	0 - 30
LFB	Fipronil Sulfone	2.50	LCS	P	0 - 30
LFB	Flumioxazin	3.05	LCS	P	0 - 30
LFB	Fonofos	4.94	LCS	P	0 - 30
LFB	Hexazinone	0.343	LCS	P	0 - 30
LFB	Imazalil	23.1	LCS	P	0 - 30
LFB	Malathion	0.503	LCS	P	0 - 30
LFB	Metalaxyl	1.58	LCS	P	0 - 30
LFB	Metolachlor	2.94	LCS	P	0 - 30
LFB	Metribuzin	4.91	LCS	P	0 - 30
LFB	Mevinphos	0.684	LCS	P	0 - 30
LFB	Molinate	1.58	LCS	P	0 - 30
LFB	Naled	0.263	LCS	P	0 - 30
LFB	Norflurazon	4.17	LCS	P	0 - 30
LFB	Oxadiazon	2.77	LCS	P	0 - 30
LFB	Parathion Ethyl	1.02	LCS	P	0 - 30
LFB	Parathion Methyl	1.24	LCS	P	0 - 30
LFB	Pendimethalin	2.51	LCS	P	0 - 30
LFB	Phorate	1.46	LCS	P	0 - 30
LFB	Prodiamine	9.91	LCS	P	0 - 30
LFB	Prometon	1.08	LCS	P	0 - 30
LFB	Prometryn	4.51	LCS	P	0 - 30
LFB	Pronamide	6.00	LCS	P	0 - 30
LFB	Propiconazole	3.59	LCS	P	0 - 30
LFB	Simazine	7.12	LCS	P	0 - 30
LFB	Sulfentrazone	6.45	LCS	P	0 - 30
LFB	Tebuconazole	3.12	LCS	P	0 - 30
LFB	Terbufos	0.610	LCS	P	0 - 30
LFB	Terbutylazine	3.07	LCS	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P388782

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2201857	Aldrin	2.31	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P388782

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2201857	Alpha-BHC	5.35	Spike	P	0 - 30
2201857	Alpha-Chlordane	0.317	Spike	P	0 - 30
2201857	Beta-BHC	5.12	Spike	P	0 - 30
2201857	Beta-Cyfluthrin	7.40	Spike	P	0 - 30
2201857	Bifenthrin	7.16	Spike	P	0 - 30
2201857	Carbophenothion	4.63	Spike	P	0 - 30
2201857	Chlorothalonil	2.43	Spike	P	0 - 30
2201857	Cis-Nonachlor	2.95	Spike	P	0 - 30
2201857	Cypermethrin	1.62	Spike	P	0 - 30
2201857	Dacthal	2.16	Spike	P	0 - 30
2201857	DDD-p,p'	0.869	Spike	P	0 - 30
2201857	DDE-p,p'	1.74	Spike	P	0 - 30
2201857	DDT-p,p'	3.08	Spike	P	0 - 30
2201857	Delta-BHC	13.1	Spike	P	0 - 30
2201857	Deltamethrin	9.89	Spike	P	0 - 30
2201857	Dichlobenil	11.0	Spike	P	0 - 30
2201857	Dicofol	30.1	Spike	F	0 - 30
2201857	Dieldrin	0.179	Spike	P	0 - 30
2201857	Endosulfan I	4.28	Spike	P	0 - 30
2201857	Endosulfan II	24.7	Spike	P	0 - 30
2201857	Endosulfan Sulfate	7.91	Spike	P	0 - 30
2201857	Endrin	3.78	Spike	P	0 - 30
2201857	Endrin Aldehyde	0.709	Spike	P	0 - 30
2201857	Endrin Ketone	6.21	Spike	P	0 - 30
2201857	Esfenvalerate	5.13	Spike	P	0 - 30
2201857	Ethalfuralin	2.73	Spike	P	0 - 30
2201857	Fenpropathrin	5.79	Spike	P	0 - 30
2201857	Gamma-BHC	0.108	Spike	P	0 - 30
2201857	Gamma-Chlordane	0.232	Spike	P	0 - 30
2201857	Heptachlor	10.7	Spike	P	0 - 30
2201857	Heptachlor Epoxide	1.02	Spike	P	0 - 30
2201857	Hexachlorobenzene	3.39	Spike	P	0 - 30
2201857	Lambda-Cyhalothrin	5.97	Spike	P	0 - 30
2201857	Methoxychlor	4.07	Spike	P	0 - 30
2201857	MGK-264	3.14	Spike	P	0 - 30
2201857	Mirex	0.0836	Spike	P	0 - 30
2201857	Permethrin	16.4	Spike	P	0 - 30
2201857	Phenothrin	3.26	Spike	P	0 - 30
2201857	Piperonyl Butoxide	39.5	Spike	F	0 - 30
2201857	Prallethrin	17.7	Spike	P	0 - 30
2201857	Tau-Fluvalinate	3.04	Spike	P	0 - 30
2201857	Tetramethrin	9.46	Spike	P	0 - 30
2201857	Trans-Nonachlor	1.10	Spike	P	0 - 30
2201857	Triclosan Methyl	4.32	Spike	P	0 - 30
2201857	Trifluralin	2.22	Spike	P	0 - 30
LFB	Aldrin	7.90	LCS	P	0 - 30
LFB	Alpha-BHC	0.154	LCS	P	0 - 30
LFB	Alpha-Chlordane	4.77	LCS	P	0 - 30
LFB	Beta-BHC	10.1	LCS	P	0 - 30
LFB	Beta-Cyfluthrin	1.57	LCS	P	0 - 30
LFB	Bifenthrin	2.64	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P388782

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Carbophenothion	9.39	LCS	P	0 - 30
LFB	Chlorothalonil	26.1	LCS	P	0 - 30
LFB	Cis-Nonachlor	3.61	LCS	P	0 - 30
LFB	Cypermethrin	7.96	LCS	P	0 - 30
LFB	Dacthal	4.67	LCS	P	0 - 30
LFB	DDD-p,p'	4.73	LCS	P	0 - 30
LFB	DDE-p,p'	6.09	LCS	P	0 - 30
LFB	DDT-p,p'	1.87	LCS	P	0 - 30
LFB	Delta-BHC	0.502	LCS	P	0 - 30
LFB	Deltamethrin	25.4	LCS	P	0 - 30
LFB	Dichlobenil	3.96	LCS	P	0 - 30
LFB	Dicofol	4.26	LCS	P	0 - 30
LFB	Dieldrin	0.694	LCS	P	0 - 30
LFB	Endosulfan I	3.68	LCS	P	0 - 30
LFB	Endosulfan II	7.83	LCS	P	0 - 30
LFB	Endosulfan Sulfate	3.44	LCS	P	0 - 30
LFB	Endrin	3.33	LCS	P	0 - 30
LFB	Endrin Aldehyde	12.7	LCS	P	0 - 30
LFB	Endrin Ketone	2.08	LCS	P	0 - 30
LFB	Esfenvalerate	4.28	LCS	P	0 - 30
LFB	Ethalfuralin	2.86	LCS	P	0 - 30
LFB	Fenpropathrin	7.63	LCS	P	0 - 30
LFB	Gamma-BHC	10.9	LCS	P	0 - 30
LFB	Gamma-Chlordane	2.96	LCS	P	0 - 30
LFB	Heptachlor	1.42	LCS	P	0 - 30
LFB	Heptachlor Epoxide	2.69	LCS	P	0 - 30
LFB	Hexachlorobenzene	2.45	LCS	P	0 - 30
LFB	Lambda-Cyhalothrin	3.35	LCS	P	0 - 30
LFB	Methoxychlor	0.0230	LCS	P	0 - 30
LFB	MGK-264	0.238	LCS	P	0 - 30
LFB	Mirex	1.69	LCS	P	0 - 30
LFB	Permethrin	7.73	LCS	P	0 - 30
LFB	Phenothrin	8.22	LCS	P	0 - 30
LFB	Piperonyl Butoxide	7.46	LCS	P	0 - 30
LFB	Prallethrin	4.10	LCS	P	0 - 30
LFB	Tau-Fluvalinate	2.74	LCS	P	0 - 30
LFB	Tetramethrin	4.07	LCS	P	0 - 30
LFB	Trans-Nonachlor	2.44	LCS	P	0 - 30
LFB	Triclosan Methyl	6.74	LCS	P	0 - 30
LFB	Trifluralin	5.06	LCS	P	0 - 30

Reference Method: EPA 8276

Batch ID: P388782

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2202152	Chlordane	6.94	Spike	P	0 - 30
2202152	Toxaphene	7.43	Spike	P	0 - 30
LFB	Chlordane	0.105	LCS	P	0 - 30
LFB	Toxaphene	5.79	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P388626

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2201729	2,4-D	13.6	Spike	P	0 - 30
2201729	Acetaminophen	1.49	Spike	P	0 - 30
2201729	Acetamiprid	7.12	Spike	P	0 - 30
2201729	Afidopyropen	17.9	Spike	P	0 - 30
2201729	Bentazon	10.8	Spike	P	0 - 30
2201729	Benzovindiflupyr	13.9	Spike	P	0 - 30
2201729	Carbamazepine	6.81	Spike	P	0 - 30
2201729	Clothianidin	3.31	Spike	P	0 - 30
2201729	Dinotefuran	3.14	Spike	P	0 - 30
2201729	Diuron	18.3	Spike	P	0 - 30
2201729	Fenuron	4.45	Spike	P	0 - 30
2201729	Fluridone	1.63	Spike	P	0 - 30
2201729	Hydrocodone	4.07	Spike	P	0 - 30
2201729	Ibuprofen	27.7	Spike	P	0 - 30
2201729	Imazapyr	2.07	Spike	P	0 - 30
2201729	Imidacloprid	14.6	Spike	P	0 - 30
2201729	Linuron	2.36	Spike	P	0 - 30
2201729	Mandestrobin	16.3	Spike	P	0 - 30
2201729	MCPP	11.8	Spike	P	0 - 30
2201729	Naproxen	27.1	Spike	P	0 - 30
2201729	Primidone	0.981	Spike	P	0 - 30
2201729	Pyraclostrobin	6.69	Spike	P	0 - 30
2201729	Thiamethoxam	8.89	Spike	P	0 - 30
2201729	Tolfenpyrad	6.21	Spike	P	0 - 30
2201729	Triclopyr	3.90	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P388698

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2201778	Acesulfame K	4.54	Spike	P	0 - 30
2201778	AMPA	3.43	Spike	P	0 - 30
2201778	Endothall	2.81	Spike	P	0 - 30
2201778	Glufosinate	1.57	Spike	P	0 - 30
2201778	Glyphosate	8.78	Spike	P	0 - 30
2201778	Sucralose	3.28	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P388705

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2201953	2,4-D	30.9	Spike	F	0 - 30
2201953	Acetaminophen	6.09	Spike	P	0 - 30
2201953	Acetamiprid	9.32	Spike	P	0 - 30
2201953	Afidopyropen	30.6	Spike	F	0 - 30
2201953	Bentazon	15.7	Spike	P	0 - 30
2201953	Benzovindiflupyr	17.7	Spike	P	0 - 30
2201953	Carbamazepine	24.9	Spike	P	0 - 30
2201953	Clothianidin	22.3	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P388705

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2201953	Dinotefuran	18.1	Spike	P	0 - 30
2201953	Diuron	32.0	Spike	F	0 - 30
2201953	Fenuron	9.21	Spike	P	0 - 30
2201953	Fluridone	8.95	Spike	P	0 - 30
2201953	Hydrocodone	24.8	Spike	P	0 - 30
2201953	Ibuprofen	13.8	Spike	P	0 - 30
2201953	Imazapyr	0.194	Spike	P	0 - 30
2201953	Imidacloprid	3.33	Spike	P	0 - 30
2201953	Linuron	10.8	Spike	P	0 - 30
2201953	Mandestrobin	13.7	Spike	P	0 - 30
2201953	MCPP	29.9	Spike	P	0 - 30
2201953	Naproxen	12.0	Spike	P	0 - 30
2201953	Primidone	10.0	Spike	P	0 - 30
2201953	Pyraclostrobin	8.72	Spike	P	0 - 30
2201953	Thiamethoxam	27.0	Spike	P	0 - 30
2201953	Tolfenpyrad	17.7	Spike	P	0 - 30
2201953	Triclopyr	61.2	Spike	F	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

Reference Method: SM 2120 B-2011
Batch ID: P388688

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2201846	Color (true)	1.37	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P388941

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2201327	Total Alkalinity	1.60	Sample	P	0 - 8.1

Quality Assurance Report Precision

Reference Method: SM 2540 C-2011
Batch ID: P389266

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2201276	TDS	1.39	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P388955

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2201327	Fluoride	0.0	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
Batch ID: P388946

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2202003	Organic Carbon	0.0998	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2201854
Field Sample ID: G2TLHR0031

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	68.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	65.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	40.4	P	30 - 160
EPA 8321B	Diuron-d6	42.4	P	30 - 160
EPA 8321B	Endothall-d6	122	P	30 - 160
EPA 8321B	Endothall-d6	122	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	107	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	107	P	30 - 160
EPA 8321B	Ibuprofen-d3	67.9	P	30 - 160
EPA 8321B	Primidone-d5	62.9	P	30 - 160
EPA 8321B	Sucralose-d6	120	P	30 - 160
EPA 8321B	Sucralose-d6	120	P	30 - 160

Lab Sample ID: 2201855
Field Sample ID: G2TLHR0041

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	42.6	P	30 - 160

Lab Sample ID: 2201856
Field Sample ID: G2TLHR0041

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	105	P	30 - 160
EPA 8321B	Acetaminophen-d4	99.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	46.8	P	30 - 160
EPA 8321B	Diuron-d6	42.1	P	30 - 160
EPA 8321B	Endothall-d6	118	P	30 - 160
EPA 8321B	Endothall-d6	118	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	111	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	111	P	30 - 160
EPA 8321B	Ibuprofen-d3	70.1	P	30 - 160
EPA 8321B	Primidone-d5	85.8	P	30 - 160
EPA 8321B	Sucralose-d6	117	P	30 - 160
EPA 8321B	Sucralose-d6	117	P	30 - 160

Lab Sample ID: 2201857
Field Sample ID: G2TLHR0041

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	72.5	P	44 - 112
EPA 8270E	Tetrachloro-m-xylene	46.9	P	34 - 106
EPA 8276	Decachlorobiphenyl	45.1	P	26 - 97.0
EPA 8276	PCNB	64.5	P	38 - 141

Lab Sample ID: 2201858
Field Sample ID: G2TLHR0041

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	98.5	P	72 - 135
EPA 8270E	Terbufos-d10	101	P	57 - 134

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A101514

Included Lab Sample IDs: 2201843, 2201846

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.0	99.5	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A101518

Included Lab Sample IDs: 2201845, 2201848

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.6	98.7	P/P	90 - 110

Reference Method: SM 2120 B-2011

Run ID: A101522

Included Lab Sample IDs: 2201843, 2201846

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A101535

Included Lab Sample IDs: 2201844, 2201847

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A101548

Included Lab Sample IDs: 2201859

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	102	102	P/P	90 - 110
Calcium	99.0	99.4	P/P	90 - 110
Iron	99.7	100	P/P	90 - 110
Magnesium	98.9	99.7	P/P	90 - 110
Potassium	97.0	97.3	P/P	90 - 110
Sodium	98.5	97.9	P/P	90 - 110
Zinc	102	103	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A101572

Included Lab Sample IDs: 2201844, 2201847

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	99.7	P/P	90 - 110
Ammonia-N	99.7	99.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A101579

Included Lab Sample IDs: 2201844, 2201847

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A101588

Included Lab Sample IDs: 2201854

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	76.9	82.8	P/P	50 - 150
Acetaminophen	90.3	71.4	P/P	60 - 160
Acetamiprid	93.7	87.9	P/P	50 - 150
Afidopyropen	137	119	P/P	50 - 150
Bentazon	71.1	76.5	P/P	50 - 160
Benzovindiflupyr	79.9	69.1	P/P	50 - 150
Carbamazepine	93.3	88.5	P/P	60 - 150
Clothianidin	90.6	64.0	P/P	60 - 150
Dinotefuran	84.9	65.8	P/P	50 - 150
Diuron	99.4	85.4	P/P	60 - 160
Fenuron	115	103	P/P	60 - 150
Fluridone	101	91.8	P/P	60 - 160
Hydrocodone	92.0	78.1	P/P	60 - 150
Ibuprofen	90.3	72.3	P/P	50 - 160
Imazapyr	76.9	99.5	P/P	50 - 160
Imidacloprid	83.6	73.3	P/P	60 - 150
Linuron	90.7	85.6	P/P	60 - 150
Mandestrobin	98.4	86.1	P/P	50 - 150
MCPP	93.9	90.8	P/P	50 - 150
Naproxen	106	75.2	P/P	50 - 160
Primidone	87.5	75.4	P/P	60 - 150
Pyraclostrobin	122	115	P/P	60 - 150
Thiamethoxam	86.6	72.0	P/P	50 - 150
Tolfenpyrad	91.8	85.1	P/P	60 - 150
Triclopyr	101	86.6	P/P	50 - 150

Reference Method: EPA 8321B

Run ID: A101600

Included Lab Sample IDs: 2201854, 2201856

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	106	102	P/P	50 - 160
Glufosinate	99.5	113	P/P	50 - 160
Glyphosate	103	107	P/P	50 - 160

Reference Method: EPA 8321B

Run ID: A101603

Included Lab Sample IDs: 2201854, 2201856

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	64.5	63.6	P/P	50 - 160
Endothall	122	124	P/P	60 - 160

Reference Method: SM 2320 B-2011

Run ID: A101630

Included Lab Sample IDs: 2201843, 2201846

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	104	99.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500 F-C-2011

Run ID: A101630

Included Lab Sample IDs: 2201843, 2201846

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	99.5	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A101631

Included Lab Sample IDs: 2201844, 2201847

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.8	97.4	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A101652

Included Lab Sample IDs: 2201856

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	135	114	P/P	50 - 150
3-Hydroxycarbofuran	88.8	96.2	P/P	60 - 150
Acetaminophen	113	113	P/P	60 - 160
Acetamiprid	117	117	P/P	50 - 150
Afidopyropen	90.6	85.4	P/P	50 - 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
Bentazon	105	112	P/P	50 - 160
Benzovindiflupyr	106	98.3	P/P	50 - 150
Carbamazepine	114	113	P/P	60 - 150
Carbaryl	78.4	69.3	P/P	60 - 150
Carbofuran	67.3	60.9	P/P	50 - 150
Clothianidin	87.6	93.4	P/P	60 - 150
Dinotefuran	96.8	99.4	P/P	50 - 150
Diuron	113	115	P/P	60 - 160
Fenuron	103	106	P/P	60 - 150
Fluridone	108	110	P/P	60 - 160
Hydrocodone	127	123	P/P	60 - 150
Ibuprofen	86.0	94.4	P/P	50 - 160
Imazapyr	106	100	P/P	50 - 160
Imidacloprid	96.0	102	P/P	60 - 150
Linuron	86.4	91.3	P/P	60 - 150
Mandestrobin	101	102	P/P	50 - 150
MCPP	108	88.6	P/P	50 - 150
Methiocarb	77.5	81.2	P/P	50 - 150
Methomyl	91.8	81.1	P/P	50 - 150
Naproxen	129	129	P/P	50 - 160
Oxamyl	99.5	91.7	P/P	50 - 150
Primidone	94.7	104	P/P	60 - 150
Propoxur	72.4	68.9	P/P	50 - 150
Pyraclostrobin	99.8	103	P/P	60 - 150
Thiamethoxam	93.9	113	P/P	50 - 150
Tolfenpyrad	98.3	97.8	P/P	60 - 150
Triclopyr	118	107	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A101686

Included Lab Sample IDs: 2201854, 2201856

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	122	124	P/P	50 - 160

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A101737

Included Lab Sample IDs: 2201859

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.1	97.8	P/P	90 - 110
Antimony	98.6	98.4	P/P	90 - 110
Arsenic	99.3	97.1	P/P	90 - 110
Boron	102	103	P/P	90 - 110
Cadmium	98.9	99.0	P/P	90 - 110
Chromium	95.6	94.4	P/P	90 - 110
Copper	98.9	94.7	P/P	90 - 110
Lead	97.0	96.3	P/P	90 - 110
Nickel	98.0	93.8	P/P	90 - 110
Selenium	97.0	96.6	P/P	90 - 110
Silver	101	99.9	P/P	90 - 110
Thallium	95.7	95.3	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A101757

Included Lab Sample IDs: 2201857

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	95.6		P	80 - 120
Alpha-BHC	98.0		P	80 - 120
Alpha-Chlordane	98.2		P	80 - 120
Beta-BHC	95.0		P	80 - 120
Beta-Cyfluthrin	93.3		P	80 - 120
Bifenthrin	106		P	80 - 120
Carbophenothion	103		P	80 - 120
Chlorothalonil	119		P	80 - 120
Cis-Nonachlor	95.1		P	80 - 120
Cypermethrin	94.4		P	80 - 120
Dacthal	103		P	80 - 120
DDD-p,p'	99.0		P	80 - 120
DDE-p,p'	103		P	80 - 120
DDT-p,p'	106		P	80 - 120
Delta-BHC	105		P	80 - 120
Deltamethrin	95.3		P	80 - 120
Dichlobenil	89.4		P	80 - 120
Dicofol	93.1		P	80 - 120
Dieldrin	104		P	80 - 120
Endosulfan I	101		P	80 - 120
Endosulfan II	132*		F	80 - 120
Endosulfan Sulfate	92.3		P	80 - 120
Endrin	96.0		P	80 - 120
Endrin Aldehyde	98.2		P	80 - 120
Endrin Ketone	89.7		P	80 - 120
Esfenvalerate	89.6		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A101757

Included Lab Sample IDs: 2201857

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ethalfuralin	98.2		P	80 - 120
Fenpropathrin	97.0		P	80 - 120
Gamma-BHC	101		P	80 - 120
Gamma-Chlordane	96.4		P	80 - 120
Heptachlor	97.7		P	80 - 120
Heptachlor Epoxide	96.0		P	80 - 120
Hexachlorobenzene	105		P	80 - 120
Lambda-Cyhalothrin	95.7		P	80 - 120
Methoxychlor	106		P	80 - 120
MGK-264	96.9		P	80 - 120
Mirex	95.8		P	80 - 120
Permethrin	90.6		P	80 - 120
Phenothrin	90.3		P	80 - 120
Piperonyl Butoxide	103		P	80 - 120
Prallethrin	89.9		P	80 - 120
Tau-Fluvalinate	97.7		P	80 - 120
Tetramethrin	104		P	80 - 120
Trans-Nonachlor	96.4		P	80 - 120
Triclosan Methyl	101		P	80 - 120
Trifluralin	99.6		P	80 - 120

Reference Method: EPA 8276

Run ID: A101762

Included Lab Sample IDs: 2201857

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	98.7		P	80 - 120
Toxaphene	88.8		P	80 - 120

Reference Method: EPA 8270E

Run ID: A101764

Included Lab Sample IDs: 2201858

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	98.5		P	80 - 120
Alachlor	100		P	80 - 120
Ametryn	95.6		P	80 - 120
Atrazine	97.1		P	80 - 120
Atrazine Desethyl	100		P	80 - 120
Azinphos Methyl	94.0		P	80 - 120
Bromacil	97.5		P	80 - 120
Butylate	99.0		P	80 - 120
Carbophenothion	102		P	80 - 120
Chlorpyrifos Ethyl	98.7		P	80 - 120
Chlorpyrifos Methyl	103		P	80 - 120
Cyanazine	92.6		P	80 - 120
Demeton	98.5		P	80 - 120
Diazinon	98.8		P	80 - 120
Dimethenamid	97.7		P	80 - 120
Disulfoton	102		P	80 - 120
Dithiopyr	99.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A101764

Included Lab Sample IDs: 2201858

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
EPTC	99.0		P	80 - 120
Ethion	96.7		P	80 - 120
Ethoprop	98.1		P	80 - 120
Fenamiphos	96.6		P	80 - 120
Fipronil	96.0		P	80 - 120
Fipronil Desulfinyl	101		P	80 - 120
Fipronil Sulfide	95.8		P	80 - 120
Fipronil Sulfone	97.6		P	80 - 120
Flumioxazin	103		P	80 - 120
Fonofos	101		P	80 - 120
Hexazinone	98.1		P	80 - 120
Imazalil	99.5		P	80 - 120
Malathion	99.9		P	80 - 120
Metaxyl	98.0		P	80 - 120
Metolachlor	98.4		P	80 - 120
Metribuzin	97.1		P	80 - 120
Mevinphos	104		P	80 - 120
Molinate	97.3		P	80 - 120
Naled	98.1		P	80 - 120
Norflurazon	94.5		P	80 - 120
Oxadiazon	101		P	80 - 120
Parathion Ethyl	101		P	80 - 120
Parathion Methyl	91.3		P	80 - 120
Pendimethalin	92.8		P	80 - 120
Phorate	95.9		P	80 - 120
Prodiamine	108		P	80 - 120
Prometon	97.9		P	80 - 120
Prometryn	102		P	80 - 120
Pronamide	95.5		P	80 - 120
Propiconazole	98.6		P	80 - 120
Simazine	102		P	80 - 120
Sulfentrazone	95.3		P	80 - 120
Tebuconazole	99.5		P	80 - 120
Terbufos	96.2		P	80 - 120
Terbuthylazine	100		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A101798

Included Lab Sample IDs: 2201843, 2201846

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A101820

Included Lab Sample IDs: 2201844

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A101914

Included Lab Sample IDs: 2201847

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

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity						1.19	
EPA 200.7 Rev. 4.4	Barium	105		104	103			1.46
	Calcium	106		106	101			3.95
	Iron	105		108	103			3.78
	Magnesium	105		108	104			3.03
	Potassium	103		102	100			1.79
	Sodium	106		102	101			0.732
	Zinc	102		102	101			1.40
EPA 200.8 Rev. 5.4	Aluminum	102		102	104			1.36
	Antimony	102		102	100			1.05
	Arsenic	101		100	101			0.748
	Boron	103		104	104			0.540
	Cadmium	102		104	105			0.263
	Chromium	100		98.8	98.9			0.139
	Copper	101		101	101			0.0152
	Lead	97.8		99.0	98.6			0.414
	Nickel	99.8		101	100			0.920
	Selenium	99.1		98.6	99.4			0.901
	Silver	99.9		99.8	98.8			1.03
	Thallium	100		103	104			0.619
EPA 300.0 Rev. 2.1	Chloride	101		101	103		0.549	
	Sulfate	102		102	104		0.477	
EPA 350.1 Rev. 2.0	Ammonia-N	101		102	101			0.602
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	109		105	101			3.31
	Kjeldahl Nitrogen	109		106	114			5.93
EPA 353.2 Rev. 2.0	NO2NO3-N	102		99.5	100			0.501
EPA 365.1 Rev. 2.0	Total-P	107		115	107			6.02
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.7		99.8	98.8			0.778
EPA 8270E	Acetochlor	82.5	88.0	87.9	86.3	6.43		1.75
	Alachlor	83.8	87.0	87.7	85.3	3.69		2.70
	Aldrin	44.6	41.2	40.6	39.6	7.90		2.31
	Alpha-BHC	80.9	81.0	74.3	78.3	0.154		5.35
	Alpha-Chlordane	80.7	84.7	58.4	58.6	4.77		0.317
	Ametryn	92.1	90.1	91.0	113	2.28		21.5
	Atrazine	89.7	90.5	95.7	93.0	0.916		1.99
	Atrazine Desethyl	71.9	73.2	83.2	81.9	1.69		1.63
	Azinphos Methyl	56.9	55.6	62.2	36.0	2.19		53.2
	Beta-BHC	80.6	89.2	87.7	92.3	10.1		5.12
	Beta-Cyfluthrin	83.9	82.6	82.9	77.0	1.57		7.40
	Bifenthrin	84.0	81.8	69.6	74.8	2.64		7.16
	Bromacil	78.6	81.8	83.4	74.4	3.93		11.3
	Butylate	51.4	50.6	47.2	47.1	1.71		0.243
	Carbophenothion	87.9	89.2	86.4	89.0	1.44		3.03
	Carbophenothion	77.0	70.1	59.7	62.5	9.39		4.63
	Chlorothalonil	70.6	54.3	188	192	26.1		2.43
	Chlorpyrifos Ethyl	84.8	85.9	83.1	84.8	1.25		2.04
	Chlorpyrifos Methyl	97.1	96.9	92.3	91.0	0.227		1.41
	Cis-Nonachlor	83.9	87.0	63.7	65.6	3.61		2.95
	Cyanazine	102	103	105	97.3	0.763		7.80
	Cypermethrin	92.5	85.5	84.0	85.3	7.96		1.62
	Dacthal	92.2	96.6	78.3	80.0	4.67		2.16
	DDD-p,p'	86.8	91.0	61.7	62.2	4.73		0.869
	DDE-p,p'	76.6	81.4	51.1	52.0	6.09		1.74
	DDT-p,p'	89.3	87.6	61.8	59.9	1.87		3.08

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 8270E	Delta-BHC	113	114	121	138	0.502		13.1
	Deltamethrin	90.9	117	95.0	105	25.4		9.89
	Demeton	81.6	84.1	87.1	83.2	3.03		4.66
	Diazinon	88.2	90.8	90.1	90.4	2.87		0.285
	Dichlobenil	37.5	36.0	51.6	57.6	3.96		11.0
	Dicofol	92.6	96.7	50.0	67.7	4.26		30.1
	Dieldrin	87.1	87.7	61.8	62.0	0.694		0.179
	Dimethenamid	83.4	87.1	87.2	86.5	4.31		0.766
	Disulfoton	83.6	83.0	81.7	86.1	0.722		5.26
	Dithiopyr	78.3	81.1	81.7	81.3	3.56		0.500
	Endosulfan I	99.4	95.8	72.9	76.1	3.68		4.28
	Endosulfan II	107	116	83.6	107	7.83		24.7
	Endosulfan Sulfate	89.4	86.4	79.9	86.4	3.44		7.91
	Endrin	98.4	95.2	69.1	71.8	3.33		3.78
	Endrin Aldehyde	85.7	97.4	113	114	12.7		0.709
	Endrin Ketone	89.2	87.4	79.9	85.0	2.08		6.21
	EPTC	48.4	47.2	44.2	45.3	2.54		2.48
	Esfenvalerate	75.7	72.5	64.0	67.3	4.28		5.13
	Ethalfuralin	74.1	72.0	54.1	52.6	2.86		2.73
	Ethion	69.8	70.9	67.1	62.7	1.46		6.83
	Ethoprop	85.4	85.0	93.5	95.7	0.471		2.37
	Fenamiphos	85.8	86.0	75.0	82.0	0.304		8.99
	Fenpropathrin	88.8	82.3	117	110	7.63		5.79
	Fipronil	89.1	93.7	94.8	89.4	5.00		5.87
	Fipronil Desulfinyl	86.8	93.5	92.6	92.7	7.44		0.109
	Fipronil Sulfide	87.6	89.0	90.3	87.5	1.61		3.20
	Fipronil Sulfone	91.9	94.2	94.0	93.5	2.50		0.525
	Flumioxazin	99.8	96.8	122	111	3.05		9.36
	Fonofos	80.0	84.0	89.0	88.6	4.94		0.428
	Gamma-BHC	83.6	93.2	95.6	95.5	10.9		0.108
	Gamma-Chlordane	77.9	80.3	56.9	56.7	2.96		0.232
	Heptachlor	73.5	74.6	53.8	48.3	1.42		10.7
	Heptachlor Epoxide	84.4	86.7	62.0	62.7	2.69		1.02
	Hexachlorobenzene	70.9	69.2	44.5	46.0	2.45		3.39
	Hexazinone	82.6	82.9	79.5	82.1	0.343		2.88
	Imazalil	104	82.8	81.6	137	23.1		50.9
	Lambda-Cyhalothrin	94.1	91.0	93.4	99.2	3.35		5.97
	Malathion	106	106	109	105	0.503		4.49
	Metalaxyl	81.6	82.9	82.4	81.4	1.58		1.17
	Methoxychlor	91.2	91.2	84.0	80.7	0.0230		4.07
	Metolachlor	79.1	81.4	77.3	75.8	2.94		1.45
	Metribuzin	89.3	93.8	93.9	94.4	4.91		0.568
	Mevinphos	83.7	84.3	95.3	95.3	0.684		0.0013
	MGK-264	53.2	53.0	63.5	65.5	0.238		3.14
	Mirex	77.0	75.7	60.6	60.7	1.69		0.0836
	Molinate	62.0	61.1	61.2	61.6	1.58		0.639
	Naled	48.6	48.5	48.2	48.4	0.263		0.564
	Norflurazon	75.7	79.0	78.4	75.0	4.17		4.50
	Oxadiazon	78.5	80.7	76.6	75.8	2.77		1.09
	Parathion Ethyl	83.3	82.5	86.5	86.5	1.02		0.0636
	Parathion Methyl	101	99.5	101	99.5	1.24		1.31
	Pendimethalin	66.7	68.4	75.8	72.6	2.51		4.36
	Permethrin	77.3	83.5	60.1	70.8	7.73		16.4
	Phenothrin	50.9	46.9	48.2	49.8	8.22		3.26

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 8270E	Phorate	81.6	82.8	76.1	79.8	1.46		4.81
	Piperonyl Butoxide	99.6	107	81.9	54.9	7.46		39.5
	Prallethrin	55.8	58.2	46.2	55.2	4.10		17.7
	Prodimine	49.7	54.9	55.9	51.5	9.91		8.22
	Prometon	85.2	86.2	87.0	84.5	1.08		2.90
	Prometryn	88.3	92.4	94.2	94.2	4.51		0.0279
	Pronamide	84.6	89.8	88.2	89.8	6.00		1.79
	Propiconazole	79.3	82.2	90.4	88.2	3.59		1.45
	Simazine	90.5	97.2	103	96.2	7.12		6.75
	Sulfentrazone	75.5	80.5	78.2	74.2	6.45		5.23
	Tau-Fluvalinate	92.1	89.6	92.6	95.5	2.74		3.04
	Tebuconazole	31.9	32.9	34.6	32.8	3.12		5.41
	Terbufos	83.4	82.9	87.0	87.8	0.610		0.896
	Terbutylazine	86.7	89.4	90.5	90.2	3.07		0.419
	Tetramethrin	156	149	144	159	4.07		9.46
	Trans-Nonachlor	80.5	82.4	57.8	58.4	2.44		1.10
	Triclosan Methyl	89.6	95.8	59.3	61.9	6.74		4.32
	Trifluralin	74.4	70.7	50.8	49.7	5.06		2.22
	Chlordane	92.9	93.0	90.1	96.6	0.105		6.94
	Toxaphene	91.9	86.7	144	133	5.79		7.43
EPA 8276								
EPA 8321B	2,4-D	66.5		64.4	73.7			13.6
	2,4-D	99.2		60.7	85.5			30.9
	3-Hydroxycarbofuran	79.7		48.7	39.3			21.6
	Acesulfame K	74.3		56.0	53.5			4.54
	Acetaminophen	78.3		80.5	81.7			1.49
	Acetaminophen	80.4		91.1	96.9			6.09
	Acetamiprid	62.1		61.4	65.9			7.12
	Acetamiprid	68.8		67.6	74.3			9.32
	Afidopyropen	54.0		46.8	56.0			17.9
	Afidopyropen	30.5		22.4	30.5			30.6
	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	119		129	125			3.43
	Bentazon	40.4		33.2	38.3			10.8
	Bentazon	45.8		25.0	36.1			15.7
	Benzovindiflupyr	53.3		47.0	54.0			13.9
	Benzovindiflupyr	63.9		52.9	63.2			17.7
	Carbamazepine	51.1		46.7	50.0			6.81
	Carbamazepine	49.6		38.9	50.0			24.9
	Carbaryl	63.1		24.8	22.1			9.17
	Carbofuran	53.5		22.0	24.1			8.92
	Clothianidin	67.4		69.1	71.5			3.31
	Clothianidin	63.9		52.6	65.8			22.3
	Dinotefuran	63.2		74.8	72.5			3.14
	Dinotefuran	74.9		75.6	90.6			18.1
	Diuron	36.8		29.7	35.7			18.3
	Diuron	37.2		26.4	36.4			32.0
	Endothall	98.1		87.4	89.9			2.81
	Fenuron	81.2		70.6	73.8			4.45
	Fenuron	89.8		76.0	83.3			9.21
	Fluridone	63.6		62.4	63.4			1.63
	Fluridone	65.1		59.9	66.2			8.95
	Glufosinate	110		98.2	96.7			1.57

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8321B	Glyphosate	108	92.7	84.9			8.78
	Hydrocodone	64.3	64.4	67.1			4.07
	Hydrocodone	92.8	70.5	90.5			24.8
	Ibuprofen	64.0	44.6	59.0			27.7
	Ibuprofen	60.4	57.1	65.6			13.8
	Imazapyr	71.1	91.0	92.9			2.07
	Imazapyr	90.9	75.7	75.5			0.194
	Imidacloprid	70.7	87.6	102			14.6
	Imidacloprid	87.8	103	107			3.33
	Linuron	55.4	55.3	56.6			2.36
	Linuron	42.7	40.6	45.3			10.8
	Mandestrobin	66.7	56.5	66.6			16.3
	Mandestrobin	67.3	65.0	74.6			13.7
	MCPP	64.6	54.5	61.3			11.8
	MCPP	61.3	48.3	65.3			29.9
	Methiocarb	80.9	49.4	40.9			18.9
	Methomyl	89.2	44.5	41.7			6.36
	Naproxen	39.2	54.9	72.1			27.1
	Naproxen	51.6	36.3	32.2			12.0
	Oxamyl	88.7	38.4	41.3			7.26
	Primidone	66.0	60.3	59.7			0.981
	Primidone	70.3	64.3	71.1			10.0
	Propoxur	50.7	24.7	23.2			5.92
	Pyraclostrobin	71.1	67.4	72.1			6.69
	Pyraclostrobin	58.5	53.0	57.8			8.72
	Sucralose	121	120	116			3.28
	Thiamethoxam	66.4	81.6	89.1			8.89
	Thiamethoxam	89.3	85.2	112			27.0
	Tolfenpyrad	37.7	38.2	35.9			6.21
	Tolfenpyrad	40.9	32.2	38.4			17.7
	Triclopyr	50.5	50.6	52.7			3.90
	Triclopyr	55.6	28.8	54.2			61.2
SM 2120 B-2011	Color (true)	99.9				1.37	
SM 2320 B-2011	Total Alkalinity	102				1.60	
SM 2540 C-2011	TDS					1.39	
SM 4500 F-C-2011	Fluoride	96.5	100	100			0.0
SM 5310 B-2011	Organic Carbon	95.6	101				0.0998

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2201843, 2201846
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2201859
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2201859
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2201843, 2201846
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2201843, 2201846
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2201844, 2201847
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2201844, 2201847
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2201844, 2201847
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2201844, 2201847

Reference Method Descriptions

Method	Description	Associated Samples
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2201845, 2201848
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS-SIM	2201857
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2201858
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2201857
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2201855
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2201854, 2201856
EPA 8321B	Water soluble organic compounds by HPLC/MS/MS	2201854, 2201856
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2201843, 2201846
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2201843, 2201846
SM 2340B	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2201859
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2201843, 2201846
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2201843, 2201846
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2201843, 2201846
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2201844, 2201847

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	10/14/2020			10/14/2020 15:13	Yen Ta	2201843, 2201846
EPA 200.7 Rev. 4.4	10/14/2020	10/14/2020 16:20	Elliott D. Healy	10/15/2020 16:39	Betina Topolski	2201859
EPA 200.8 Rev. 5.4	10/14/2020	10/14/2020 16:20	Elliott D. Healy	10/23/2020 13:40	Alexander Thompson	2201859
EPA 300.0 Rev. 2.1	10/14/2020			10/27/2020 01:43	Lipi Saha	2201843
	10/14/2020			10/27/2020 02:48	Lipi Saha	2201846
EPA 350.1 Rev. 2.0	10/14/2020			10/17/2020 13:40	Ping Hua	2201844
	10/14/2020			10/17/2020 14:00	Ping Hua	2201847
EPA 351.2 Rev. 2.0	10/14/2020	10/27/2020 13:07	David Boose	10/28/2020 10:54	Elliott Rodriguez	2201844
	10/14/2020	10/30/2020 15:06	David Boose	11/02/2020 17:33	Elliott Rodriguez	2201847
EPA 353.2 Rev. 2.0	10/14/2020			10/15/2020 11:19	Beverly Y. Sanders	2201844
	10/14/2020			10/15/2020 11:21	Beverly Y. Sanders	2201847
EPA 365.1 Rev. 2.0	10/14/2020	10/15/2020 12:59	Yen Ta	10/16/2020 16:26	Lipi Saha	2201844
	10/14/2020	10/15/2020 12:59	Yen Ta	10/16/2020 16:27	Lipi Saha	2201847
EPA 365.1 Rev. 2.0 dissolved	10/14/2020			10/14/2020 16:11	Samantha Davila	2201845
	10/14/2020			10/14/2020 16:14	Samantha Davila	2201848
EPA 8270E	10/14/2020	10/15/2020 09:00	Rasheda Ghaffari	10/19/2020 21:48	Vandana T. Nagar	2201858
	10/14/2020	10/19/2020 08:00	Fe-Val Siddell	10/22/2020 22:03	Arthur Maknenko	2201857
EPA 8276	10/14/2020	10/19/2020 08:00	Fe-Val Siddell	10/22/2020 01:21	Michael Poppell	2201857
EPA 8321B	10/14/2020	10/15/2020 09:00	Hoor Shaik	10/18/2020 20:17	Juyoung Kim	2201854
	10/14/2020	10/15/2020 11:00	Rebecca Ware	10/15/2020 15:43	Rebecca Ware	2201854
	10/14/2020	10/15/2020 11:00	Rebecca Ware	10/15/2020 15:54	Rebecca Ware	2201856
	10/14/2020	10/15/2020 11:00	Rebecca Ware	10/16/2020 13:55	Rebecca Ware	2201854
	10/14/2020	10/15/2020 11:00	Rebecca Ware	10/16/2020 14:09	Rebecca Ware	2201856
	10/14/2020	10/15/2020 11:00	Rebecca Ware	10/21/2020 23:31	Rebecca Ware	2201854
	10/14/2020	10/15/2020 11:00	Rebecca Ware	10/21/2020 23:43	Rebecca Ware	2201856
	10/14/2020	10/19/2020 09:00	Hoor Shaik	10/19/2020 23:17	Juyoung Kim	2201856
	10/14/2020	10/20/2020 13:30	Hoor Shaik	10/20/2020 22:23	Juyoung Kim	2201855
SM 2120 B-2011	10/14/2020			10/14/2020 12:41	Madeline Gruver	2201843
	10/14/2020			10/14/2020 12:42	Madeline Gruver	2201846
SM 2320 B-2011	10/14/2020			10/20/2020 00:57	Samantha Davila	2201843
	10/14/2020			10/20/2020 01:07	Samantha Davila	2201846
SM 2340B	10/14/2020			10/15/2020 16:39	Betina Topolski	2201859
SM 2540 C-2011	10/14/2020			10/15/2020 15:25	Yijie Li	2201843, 2201846
SM 2540 D-2011	10/14/2020			10/15/2020 15:25	Yijie Li	2201843, 2201846
SM 4500 F-C-2011	10/14/2020			10/20/2020 00:57	Samantha Davila	2201843
	10/14/2020			10/20/2020 01:07	Samantha Davila	2201846
SM 5310 B-2011	10/14/2020			10/19/2020 18:46	Lauren Lees	2201844
	10/14/2020			10/19/2020 18:58	Lauren Lees	2201847