

Chemical Analysis Report

NW-DIST-2017-04-18-02

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

Event Description: **PENS/CANT RUN WBID 291 489 542 676 586**

Request ID: **RQ-2017-04-03-71**

Customer: **NW-DIST**

Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
160 W Government St
Suite 208A
Pensacola, FL 32502-5794
Attn: Michael King

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Thekkekalathil Chandrasekhar, PhD, QA Officer
Phone (850) 245-8085

Certified by: Thekkekalathil Chandrasekhar, Chemist Administrator

Date Certified: 01-JUN-2017 17:30



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 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: Jacks Branch @ Hwy 97

Collection Date/Time: 04/17/2017 11:20

Field ID: G5NW0037

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1889685	EPA 180.1 Rev. 2.0	Turbidity	2.2		NTU	P323593	
	EPA 300.0 Rev. 2.1	Chloride	4.4		mg Cl/L	P324022	
		Sulfate	0.62		mg SO4/L	P324024	
	SM 2120 B	Color (true)	45		PCU	P323596	
	SM 2320 B-97	Total Alkalinity	2.4	I	mg CaCO3/L	P324161	
	SM 2540 C-97	TDS	35		mg/L	P323874	
	SM 2540 D-97	TSS	4	I	mg/L	P324585	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P324682	
1889688	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P323679	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.18	I	mg N/L	P323603	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.096		mg N/L	P323729	
	EPA 365.1 Rev. 2.0	Total-P	0.008		mg P/L	P323645	
	SM 5310 B-00	Organic Carbon	3.7		mg C/L	P323620	
1889691	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P323584	

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Clear Creek @ CR 749 WEST

Collection Date/Time: 04/17/2017 11:55

Field ID: G4NW0359

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1889686	EPA 180.1 Rev. 2.0	Turbidity	1.2		NTU	P323593	
	EPA 300.0 Rev. 2.1	Chloride	11		mg Cl/L	P324022	
		Sulfate	2.4		mg SO4/L	P324024	
	SM 2120 B	Color (true)	37	A	PCU	P323597	
	SM 2320 B-97	Total Alkalinity	15		mg CaCO3/L	P324162	
	SM 2540 C-97	TDS	66		mg/L	P323874	
	SM 2540 D-97	TSS	2	I	mg/L	P324585	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P324682	
1889689	EPA 350.1 Rev. 2.0	Ammonia-N	0.015		mg N/L	P323679	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.36		mg N/L	P323685	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.019		mg N/L	P323730	
	EPA 365.1 Rev. 2.0	Total-P	0.011		mg P/L	P323818	
	SM 5310 B-00	Organic Carbon	4.6		mg C/L	P323620	
1889692	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P323584	

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Dridglers Creek abv Parkview

Collection Date/Time: 04/17/2017 13:30

Field ID: G4NW0168

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1889687	EPA 180.1 Rev. 2.0	Turbidity	7.5	A	NTU	P323594	
	EPA 300.0 Rev. 2.1	Chloride	8.2		mg Cl/L	P324022	
		Sulfate	2.0		mg SO4/L	P324024	

Field ID: G4NW0168

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1889687	SM 2120 B	Color (true)	180		PCU	P323597	
	SM 2320 B-97	Total Alkalinity	8.6		mg CaCO3/L	P324162	
	SM 2540 C-97	TDS	50		mg/L	P323874	
	SM 2540 D-97	TSS	3	I	mg/L	P324585	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P324682	
1889690	EPA 350.1 Rev. 2.0	Ammonia-N	0.013		mg N/L	P323679	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.52		mg N/L	P323685	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.22		mg N/L	P323730	
	EPA 365.1 Rev. 2.0	Total-P	0.017		mg P/L	P323646	
	SM 5310 B-00	Organic Carbon	7.7		mg C/L	P323620	
1889693	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P323584	

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Thompson Bayou @ Greenbriar

Collection Date/Time: 04/17/2017 14:10

Field ID: G4NW0240

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1889682	EPA 180.1 Rev. 2.0	Turbidity	4.1		NTU	P323593	
	EPA 300.0 Rev. 2.1	Chloride	7.3		mg Cl/L	P324022	
		Sulfate	2.7		mg SO4/L	P324024	
	SM 2120 B	Color (true)	16		PCU	P323596	
	SM 2320 B-97	Total Alkalinity	8.5		mg CaCO3/L	P324161	
	SM 2540 C-97	TDS	50		mg/L	P323874	
	SM 2540 D-97	TSS	3	I	mg/L	P324585	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P324681	
1889683	EPA 350.1 Rev. 2.0	Ammonia-N	0.014		mg N/L	P323679	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.14	I	mg N/L	P323603	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.78		mg N/L	P323729	
	EPA 365.1 Rev. 2.0	Total-P	0.007		mg P/L	P323645	
	SM 5310 B-00	Organic Carbon	1.1		mg C/L	P323620	
1889684	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P323584	
1889763	EPA 200.7 Rev. 4.4	Calcium	4.03		mg/L	P323911	
		Iron	580		ug/L	P323911	
		Magnesium	1.32		mg/L	P323911	
		Potassium	0.66	I	mg/L	P323911	
		Sodium	4.8		mg/L	P323911	
		Zinc	5.0	U	ug/L	P323911	
	EPA 200.8 Rev. 5.4	Arsenic	0.48		ug/L	P323911	
		Cadmium	0.020	U	ug/L	P323911	
		Chromium	0.40	U	ug/L	P323911	
		Copper	0.20	U	ug/L	P323911	
		Lead	0.17	I	ug/L	P323911	
		Nickel	0.28	I	ug/L	P323911	
		Silver	0.010	U	ug/L	P323911	

Field ID: G4NW0240

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
Ref. Method and Comment: SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.							

Sample Location: Thompson Bayou @ Greenbriar

Collection Date/Time: 04/17/2017 14:10

Field ID: G4NW0240

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1889719	EPA 8321B	Glyphosate**	10	U	ug/L	P323576	
	USGS O-2060-01	2,4-D	0.0040	U	ug/L	P323583	
		Diuron	0.0020	U	ug/L	P323583	
		Fenuron	0.010	U	ug/L	P323583	MS, RPD
		Imidacloprid	0.013		ug/L	P323583	
		Bentazon	0.0018	I	ug/L	P323583	
		Linuron	0.010	U	ug/L	P323583	
		Acetaminophen**	0.020	U	ug/L	P323583	
		MCP	0.0040	U	ug/L	P323583	
		Carbamazepine**	0.0014	I	ug/L	P323583	
		Triclopyr**	0.010	U	ug/L	P323583	
		Primidone**	0.020	U	ug/L	P323583	
		Fluridone**	5.0E-04	U	ug/L	P323583	
1889722	EPA 8321B	Pyraclostrobin**	0.0020	U	ug/L	P323719	
1889745	EPA 8270D	Aldrin	4.3	UJ	ng/L	P323650	LCS
		Alpha-BHC	2.1	U	ng/L	P323650	
		Beta-BHC	4.3	U	ng/L	P323650	
		Delta-BHC	4.3	U	ng/L	P323650	
		Gamma-BHC	4.3	U	ng/L	P323650	
		Carbophenothion	4.3	U	ng/L	P323650	
		Chlorothalonil	2.1	UJ	ng/L	P323650	CCV, RPD
		Cypermethrin	21	UJ	ng/L	P323650	LCS
		DDD-p,p'	2.1	U	ng/L	P323650	
		DDE-p,p'	3.2	U	ng/L	P323650	
		DDT-p,p'	3.2	U	ng/L	P323650	
		Dieldrin	4.3	U	ng/L	P323650	
		Endosulfan I	4.3	U	ng/L	P323650	
		Endosulfan II	4.3	U	ng/L	P323650	
		Endosulfan Sulfate	2.1	U	ng/L	P323650	
		Endrin	2.1	U	ng/L	P323650	
		Endrin Aldehyde	2.1	U	ng/L	P323650	
		Heptachlor	1.6	U	ng/L	P323650	
		Heptachlor Epoxide	2.1	U	ng/L	P323650	
		Methoxychlor	4.3	U	ng/L	P323650	
		Mirex	2.1	UJ	ng/L	P323650	LCS
		Permethrin	11	U	ng/L	P323650	
		Trifluralin	1.1	U	ng/L	P323650	
		Alpha-Chlordane	1.1	U	ng/L	P323650	
		Gamma-Chlordane	1.1	UJ	ng/L	P323650	LCS

Field ID: G4NW0240

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1889745	EPA 8270D	Endrin Ketone	2.1	U	ng/L	P323650	CCV
		Dicofol	32	UJ	ng/L	P323650	
	EPA 8276	Chlordane**	2.7	U	ng/L	P323650	
		Toxaphene**	13	U	ng/L	P323650	
1889748	EPA 8270D	Ametryn	0.31	U	ng/L	P323644	
		Atrazine	15		ng/L	P323644	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P323644	
		Chlorpyrifos Methyl	0.096	U	ng/L	P323644	
		Disulfoton	0.31	U	ng/L	P323644	
		Ethion	0.14	U	ng/L	P323644	
		Ethoprop	0.096	U	ng/L	P323644	
		Hexazinone	0.48	U	ng/L	P323644	
		Malathion	0.34	U	ng/L	P323644	
		Metribuzin	0.19	U	ng/L	P323644	
		Mevinphos	0.48	U	ng/L	P323644	
		Norflurazon	0.48	U	ng/L	P323644	
		Phorate	0.24	U	ng/L	P323644	
		Prometryn	0.19	U	ng/L	P323644	
		Simazine	1.6	I	ng/L	P323644	
		Atrazine Desethyl	5.2	I	ng/L	P323644	
		Prometon	0.87	U	ng/L	P323644	
		Fipronil	1.3		ng/L	P323644	
		Molinate	0.29	U	ng/L	P323644	
		Pendimethalin	1.4	U	ng/L	P323644	
		Terbufos	0.096	U	ng/L	P323644	
		EPTC	1.2	U	ng/L	P323644	
		Terbuthylazine	0.41	U	ng/L	P323644	
		Bromacil	3.8		ng/L	P323644	
		Fipronil Sulfide	0.35	I	ng/L	P323644	
		Fipronil Sulfone	3.4		ng/L	P323644	
		Alachlor	0.24	U	ng/L	P323644	
		Azinphos Methyl	2.2	U	ng/L	P323644	
		Butylate	0.38	U	ng/L	P323644	
		Demeton	1.9	U	ng/L	P323644	
		Diazinon	0.12	U	ng/L	P323644	
		Fenamiphos	0.24	U	ng/L	P323644	
		Fonofos	0.19	U	ng/L	P323644	
		Metalaxyl	0.19	U	ng/L	P323644	
		Metolachlor	0.24	U	ng/L	P323644	
		Acetochlor	0.24	U	ng/L	P323644	
		Cyanazine	0.48	U	ng/L	P323644	
		Parathion Ethyl	0.24	U	ng/L	P323644	
		Parathion Methyl	0.24	U	ng/L	P323644	

Ref. Method and Comment:

EPA 8270D: Refer to the narrative for an explanation of QC Codes.

EPA 8270D: MS accuracy for Atrazine not assessed due to high content of this parameter in the sample spiked.

Sample Location: Thompson Bayou

Collection Date/Time: 04/17/2017 14:15

Field ID: G4NW0240DUPLICATE

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1889720	EPA 8321B	Glyphosate**	10	U	ug/L	P323576	
	USGS O-2060-01	2,4-D	0.0040	U	ug/L	P323583	
		Diuron	0.0020	U	ug/L	P323583	
		Fenuron	0.010	U	ug/L	P323583	MS, RPD
		Imidacloprid	0.014		ug/L	P323583	
		Bentazon	0.0018	I	ug/L	P323583	
		Linuron	0.010	U	ug/L	P323583	
		Acetaminophen**	0.020	U	ug/L	P323583	
		MCP	0.0040	U	ug/L	P323583	
		Carbamazepine**	0.0014	I	ug/L	P323583	
		Triclopyr**	0.010	U	ug/L	P323583	
		Primidone**	0.020	U	ug/L	P323583	
		Fluridone**	5.0E-04	U	ug/L	P323583	
1889723	EPA 8321B	Pyraclostrobin**	0.0020	U	ug/L	P323719	
1889746	EPA 8270D	Aldrin	4.3	UJ	ng/L	P323650	LCS
		Alpha-BHC	2.2	U	ng/L	P323650	
		Beta-BHC	4.3	U	ng/L	P323650	
		Delta-BHC	4.3	U	ng/L	P323650	
		Gamma-BHC	4.3	U	ng/L	P323650	
		Carbophenothion	4.3	U	ng/L	P323650	
		Chlorothalonil	2.2	UJ	ng/L	P323650	CCV, RPD
		Cypermethrin	22	UJ	ng/L	P323650	LCS
		DDD-p,p'	2.2	U	ng/L	P323650	
		DDE-p,p'	3.2	U	ng/L	P323650	
		DDT-p,p'	3.2	U	ng/L	P323650	
		Dieldrin	4.3	U	ng/L	P323650	
		Endosulfan I	4.3	U	ng/L	P323650	
		Endosulfan II	4.3	U	ng/L	P323650	
		Endosulfan Sulfate	2.2	U	ng/L	P323650	
		Endrin	2.2	U	ng/L	P323650	
		Endrin Aldehyde	2.2	U	ng/L	P323650	
		Heptachlor	1.6	U	ng/L	P323650	
		Heptachlor Epoxide	2.2	U	ng/L	P323650	
		Methoxychlor	4.3	U	ng/L	P323650	
		Mirex	2.2	UJ	ng/L	P323650	LCS
		Permethrin	11	U	ng/L	P323650	
		Trifluralin	1.1	U	ng/L	P323650	
		Alpha-Chlordane	1.1	U	ng/L	P323650	
		Gamma-Chlordane	1.1	UJ	ng/L	P323650	LCS
		Endrin Ketone	2.2	U	ng/L	P323650	
		Dicofol	32	UJ	ng/L	P323650	CCV
	EPA 8276	Chlordane**	2.7	U	ng/L	P323650	
		Toxaphene**	13	U	ng/L	P323650	
1889749	EPA 8270D	Ametryn	0.31	UQ	ng/L	P325177	

Field ID: G4NW0240DUPLICATE

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1889749	EPA 8270D	Atrazine	16	Q	ng/L	P325177	CCV
		Chlorpyrifos Ethyl	0.24	UQ	ng/L	P325177	
		Chlorpyrifos Methyl	0.096	UQ	ng/L	P325177	
		Disulfoton	0.31	UQ	ng/L	P325177	
		Ethion	0.14	UQ	ng/L	P325177	
		Ethoprop	0.096	UQ	ng/L	P325177	
		Hexazinone	0.48	UQ	ng/L	P325177	
		Malathion	0.34	UQ	ng/L	P325177	
		Metribuzin	0.19	UQJ	ng/L	P325177	
		Mevinphos	0.48	UQ	ng/L	P325177	
		Norflurazon	0.48	UQ	ng/L	P325177	
		Phorate	0.24	UQ	ng/L	P325177	
		Prometryn	0.19	UQ	ng/L	P325177	
		Simazine	1.7	IQ	ng/L	P325177	
		Atrazine Desethyl	6.4	Q	ng/L	P325177	
		Prometon	0.86	UQ	ng/L	P325177	
		Fipronil	1.3	Q	ng/L	P325177	
		Molinate	0.29	UQ	ng/L	P325177	
		Pendimethalin	1.4	UQ	ng/L	P325177	
		Terbufos	0.096	UQ	ng/L	P325177	
		EPTC	1.2	UQ	ng/L	P325177	
		Terbuthylazine	0.41	UQ	ng/L	P325177	
		Bromacil	4.2	Q	ng/L	P325177	
		Fipronil Sulfide	0.32	IQ	ng/L	P325177	
		Fipronil Sulfone	3.4	Q	ng/L	P325177	
		Alachlor	0.24	UQ	ng/L	P325177	
		Azinphos Methyl	2.2	UQ	ng/L	P325177	
		Butylate	0.38	UQ	ng/L	P325177	
		Demeton	1.9	UQ	ng/L	P325177	
		Diazinon	0.12	UQ	ng/L	P325177	
		Fenamiphos	0.24	UQ	ng/L	P325177	
		Fonofos	0.19	UQ	ng/L	P325177	
		Metalaxyl	0.19	UQ	ng/L	P325177	
		Metolachlor	0.24	UQ	ng/L	P325177	
		Acetochlor	0.24	UQ	ng/L	P325177	
		Cyanazine	0.48	UQ	ng/L	P325177	
		Parathion Ethyl	0.24	UQ	ng/L	P325177	
		Parathion Methyl	0.24	UQ	ng/L	P325177	

Ref. Method and Comment:

EPA 8270D: Refer to the narrative for an explanation of QC Codes.

EPA 8270D: Sample expired due to need for re-extraction. Refer to the narrative for an explanation of QC Codes.

Sample Location: Thompson Bayou @ Green Briar

Collection Date/Time: 04/17/2017 14:20

Field ID: FIELDBLANK

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Field ID: FIELDBLANK

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1889721	EPA 8321B USGS O-2060-01	Glyphosate**	10	U	ug/L	P323576	
		2,4-D	0.0040	U	ug/L	P323583	
		Diuron	0.0020	U	ug/L	P323583	
		Fenuron	0.010	U	ug/L	P323583	MS, RPD
		Imidacloprid	0.0020	U	ug/L	P323583	
		Bentazon	0.0010	U	ug/L	P323583	
		Linuron	0.010	U	ug/L	P323583	
		Acetaminophen**	0.020	U	ug/L	P323583	
		MCP	0.0040	U	ug/L	P323583	
		Carbamazepine**	5.0E-04	U	ug/L	P323583	
		Triclopyr**	0.010	U	ug/L	P323583	
		Primidone**	0.020	U	ug/L	P323583	
		Fluridone**	5.0E-04	U	ug/L	P323583	
1889724	EPA 8321B	Pyraclostrobin**	0.0020	U	ug/L	P323719	
1889747	EPA 8270D	Aldrin	5.3	UJ	ng/L	P323650	LCS
		Alpha-BHC	2.7	U	ng/L	P323650	
		Beta-BHC	5.3	U	ng/L	P323650	
		Delta-BHC	5.3	U	ng/L	P323650	
		Gamma-BHC	5.3	U	ng/L	P323650	
		Carbophenothion	5.3	U	ng/L	P323650	
		Chlorothalonil	2.7	UJ	ng/L	P323650	CCV, RPD
		Cypermethrin	27	UJ	ng/L	P323650	LCS
		DDD-p,p'	2.7	U	ng/L	P323650	
		DDE-p,p'	4.0	U	ng/L	P323650	
		DDT-p,p'	4.0	U	ng/L	P323650	
		Dieldrin	5.3	U	ng/L	P323650	
		Endosulfan I	5.3	U	ng/L	P323650	
		Endosulfan II	5.3	U	ng/L	P323650	
		Endosulfan Sulfate	2.7	U	ng/L	P323650	
		Endrin	2.7	U	ng/L	P323650	
		Endrin Aldehyde	2.7	U	ng/L	P323650	
		Heptachlor	2.0	U	ng/L	P323650	
		Heptachlor Epoxide	2.7	U	ng/L	P323650	
		Methoxychlor	5.3	U	ng/L	P323650	
		Mirex	2.7	UJ	ng/L	P323650	LCS
		Permethrin	13	U	ng/L	P323650	
		Trifluralin	1.3	U	ng/L	P323650	
		Alpha-Chlordane	1.3	U	ng/L	P323650	
		Gamma-Chlordane	1.3	UJ	ng/L	P323650	LCS
		Endrin Ketone	2.7	U	ng/L	P323650	
		Dicofol	40	UJ	ng/L	P323650	CCV
	EPA 8276	Chlordane**	3.3	U	ng/L	P323650	
		Toxaphene**	17	U	ng/L	P323650	
1889750	EPA 8270D	Ametryn	0.31	U	ng/L	P323644	
		Atrazine	0.24	U	ng/L	P323644	

Field ID: FIELDBLANK

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1889750	EPA 8270D	Chlorpyrifos Ethyl	0.24	U	ng/L	P323644	
		Chlorpyrifos Methyl	0.096	U	ng/L	P323644	
		Disulfoton	0.31	U	ng/L	P323644	
		Ethion	0.14	U	ng/L	P323644	
		Ethoprop	0.096	U	ng/L	P323644	
		Hexazinone	0.48	U	ng/L	P323644	
		Malathion	0.34	U	ng/L	P323644	
		Metribuzin	0.19	U	ng/L	P323644	
		Mevinphos	0.48	U	ng/L	P323644	
		Norflurazon	0.48	U	ng/L	P323644	
		Phorate	0.24	U	ng/L	P323644	
		Prometryn	0.19	U	ng/L	P323644	
		Simazine	0.48	U	ng/L	P323644	
		Atrazine Desethyl	1.4	U	ng/L	P323644	
		Prometon	0.87	U	ng/L	P323644	
		Fipronil	0.24	U	ng/L	P323644	
		Molinate	0.29	U	ng/L	P323644	
		Pendimethalin	1.4	U	ng/L	P323644	
		Terbufos	0.096	U	ng/L	P323644	
		EPTC	1.2	U	ng/L	P323644	
		Terbuthylazine	0.41	U	ng/L	P323644	
		Bromacil	0.48	U	ng/L	P323644	
		Fipronil Sulfide	0.14	U	ng/L	P323644	
		Fipronil Sulfone	0.14	U	ng/L	P323644	
		Alachlor	0.24	U	ng/L	P323644	
		Azinphos Methyl	2.2	U	ng/L	P323644	
		Butylate	0.39	U	ng/L	P323644	
		Demeton	1.9	U	ng/L	P323644	
		Diazinon	0.12	U	ng/L	P323644	
		Fenamiphos	0.24	U	ng/L	P323644	
		Fonofos	0.19	U	ng/L	P323644	
		Metalaxyl	0.19	U	ng/L	P323644	
		Metolachlor	0.24	U	ng/L	P323644	
		Acetochlor	0.24	U	ng/L	P323644	
		Cyanazine	0.48	U	ng/L	P323644	
		Parathion Ethyl	0.24	U	ng/L	P323644	
		Parathion Methyl	0.24	U	ng/L	P323644	

Ref. Method and Comment:

EPA 8270D: Refer to the narrative for an explanation of QC Codes.

EPA 8270D: MS accuracy for Atrazine not assessed due to high content of this parameter in the sample spiked.

Quality Assurance Report

Method Blank Results

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P323593

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P323594

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P323911

Component	Result	Code	Units
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: P323911

Component	Result	Code	Units
Arsenic	0.050	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Copper	0.20	U	ug/L
Lead	0.050	U	ug/L
Nickel	0.20	U	ug/L
Silver	0.010	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P324022

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P324024

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P323679

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: P323603

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P323685

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P323729

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P323730

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P323645

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P323646

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P323818

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P323584

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

Reference Method: EPA 8270D
Batch ID: P323644

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.32	U	ng/L
Atrazine	0.25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270D

Batch ID: P323644

Component	Result	Code	Units
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.2	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Cyanazine	0.50	U	ng/L
Demeton	2.0	U	ng/L
Diazinon	0.12	U	ng/L
Disulfoton	0.32	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Fenamiphos	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.20	U	ng/L
Metolachlor	0.25	U	ng/L
Metribuzin	0.20	U	ng/L
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Norflurazon	0.50	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.25	U	ng/L
Pendimethalin	1.5	U	ng/L
Phorate	0.25	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Simazine	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L

Reference Method: EPA 8270D

Batch ID: P323650

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	4.0	U	ng/L
Carbophenothion	4.0	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cypermethrin	20	U	ng/L
DDD-p,p'	2.0	U	ng/L
DDE-p,p'	3.0	U	ng/L
DDT-p,p'	3.0	U	ng/L
Delta-BHC	4.0	U	ng/L
Dicofol	30	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270D

Batch ID: P323650

Component	Result	Code	Units
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
Gamma-BHC	4.0	U	ng/L
Gamma-Chlordane	1.0	U	ng/L
Heptachlor	1.5	U	ng/L
Heptachlor Epoxide	2.0	U	ng/L
Methoxychlor	4.0	U	ng/L
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Trifluralin	1.0	U	ng/L

Reference Method: EPA 8270D

Batch ID: P325177

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.32	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.2	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Cyanazine	0.50	U	ng/L
Demeton	2.0	U	ng/L
Diazinon	0.12	U	ng/L
Disulfoton	0.32	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.11	I	ng/L
Fenamiphos	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.20	U	ng/L
Metolachlor	0.25	U	ng/L
Metribuzin	0.20	U	ng/L
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Norflurazon	0.50	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.25	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D
Batch ID: P325177

Component	Result	Code	Units
Pendimethalin	1.5	U	ng/L
Phorate	0.25	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Simazine	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L

Reference Method: EPA 8276
Batch ID: P323650

Component	Result	Code	Units
Chlordane	2.5	U	ng/L
Toxaphene	12	U	ng/L

Reference Method: EPA 8321B
Batch ID: P323576

Component	Result	Code	Units
Glyphosate	10	U	ug/L

Reference Method: EPA 8321B
Batch ID: P323719

Component	Result	Code	Units
Pyraclostrobin	0.0020	U	ug/L

Reference Method: SM 2120 B
Batch ID: P323596

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P323597

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P324161

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

Reference Method: SM 2320 B-97
Batch ID: P324162

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

Quality Assurance Report Method Blank Results

Reference Method: SM 2540 C-97
 Batch ID: P323874

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
 Batch ID: P324585

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
 Batch ID: P324681

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
 Batch ID: P324682

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
 Batch ID: P323620

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

Reference Method: USGS O-2060-01
 Batch ID: P323583

Component	Result	Code	Units
2,4-D	0.0040	U	ug/L
Acetaminophen	0.020	U	ug/L
Bentazon	0.0010	U	ug/L
Carbamazepine	5.0E-04	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.010	U	ug/L
Fluridone	5.0E-04	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.010	U	ug/L
MCP	0.0040	U	ug/L
Primidone	0.020	U	ug/L
Triclopyr	0.010	U	ug/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
 Batch ID: P323911

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	103		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P323911

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

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P323911

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	101		P	85 - 115
Cadmium	98.9		P	85 - 115
Chromium	101		P	85 - 115
Copper	98.1		P	85 - 115
Lead	101		P	85 - 115
Nickel	101		P	85 - 115
Silver	99.7		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P324022

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P324024

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	94.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P323679

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P323603

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P323685

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P323729

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P323729

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	105		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P323730

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P323645

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P323646

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P323818

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P323584

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

Reference Method: EPA 8270D
 Batch ID: P323644

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	88.1	95.3	P/P	78 - 118
Alachlor	87.1	97.1	P/P	77 - 119
Ametryn	103	114	P/P	61 - 136
Atrazine	93.5	98.3	P/P	73 - 120
Atrazine Desethyl	73.1	84.1	P/P	16 - 122
Azinphos Methyl	124	125	P/P	69 - 186
Bromacil	69.1	85.1	P/P	40 - 125
Butylate	56.3	60.0	P/P	32 - 87.0
Chlorpyrifos Ethyl	86.4	89.7	P/P	53 - 110
Chlorpyrifos Methyl	91.3	89.5	P/P	31 - 119
Cyanazine	104	113	P/P	36 - 224
Demeton	86.0	103	P/P	39 - 122
Diazinon	90.2	101	P/P	75 - 119
Disulfoton	81.6	91.3	P/P	42 - 139
EPTC	57.5	59.4	P/P	33 - 96.0
Ethion	90.0	95.4	P/P	63 - 127

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P323644

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ethoprop	86.7	103	P/P	65 - 107
Fenamiphos	105	107	P/P	64 - 137
Fipronil	94.3	103	P/P	60 - 126
Fipronil Sulfide	96.4	95.3	P/P	58 - 124
Fipronil Sulfone	89.3	89.3	P/P	57 - 126
Fonofos	88.6	97.5	P/P	65 - 111
Hexazinone	89.5	95.3	P/P	46 - 151
Malathion	96.1	97.7	P/P	68 - 132
Metalaxyl	87.9	95.3	P/P	51 - 132
Metolachlor	90.4	98.2	P/P	78 - 119
Metribuzin	95.9	100	P/P	64 - 138
Mevinphos	106	118	P/P	34 - 128
Molinate	62.9	67.4	P/P	44 - 101
Norflurazon	93.4	97.9	P/P	63 - 129
Parathion Ethyl	90.4	98.1	P/P	80 - 109
Parathion Methyl	92.5	95.4	P/P	74 - 125
Pendimethalin	90.6	99.2	P/P	48 - 134
Phorate	87.0	114	P/P	52 - 119
Prometon	94.8	106	P/P	69 - 124
Prometryn	102	114	P/P	66 - 124
Simazine	92.7	100	P/P	61 - 134
Terbufos	87.1	98.2	P/P	58 - 115
Terbutylazine	88.5	93.0	P/P	77 - 113

Reference Method: EPA 8270D
Batch ID: P323650

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	26.5	24.2	F/F	30 - 83.0
Alpha-BHC	91.3	85.5	P/P	62 - 119
Alpha-Chlordane	64.9	56.4	P/P	56 - 119
Beta-BHC	109	113	P/P	54 - 141
Carbophenothion	83.6	103	P/P	33 - 147
Chlorothalonil	66.2	71.3	P/P	25 - 175
Cypermethrin	47.3	53.8	F/P	50 - 155
DDD-p,p'	84.6	76.6	P/P	56 - 135
DDE-p,p'	58.9	53.0	P/P	48 - 120
DDT-p,p'	69.8	67.0	P/P	51 - 121
Delta-BHC	111	105	P/P	65 - 163
Dicofol	37.3	30.3	P/P	15 - 112
Dieldrin	84.6	68.2	P/P	59 - 134
Endosulfan I	81.8	71.5	P/P	65 - 142
Endosulfan II	86.2	85.6	P/P	65 - 154
Endosulfan Sulfate	96.8	91.6	P/P	65 - 136
Endrin	89.0	66.2	P/P	53 - 156
Endrin Aldehyde	81.8	64.0	P/P	47 - 156
Endrin Ketone	93.1	102	P/P	70 - 124
Gamma-BHC	99.3	88.9	P/P	64 - 142
Gamma-Chlordane	56.9	50.2	P/F	55 - 114
Heptachlor	47.6	44.4	P/P	42 - 105
Heptachlor Epoxide	79.6	69.9	P/P	67 - 120
Methoxychlor	92.1	83.7	P/P	63 - 134

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
 Batch ID: P323650

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Mirex	36.5	36.3	F/F	40 - 90.0
Permethrin	56.0	65.5	P/P	36 - 144
Trifluralin	98.2	110	P/P	40 - 170

Reference Method: EPA 8270D
 Batch ID: P325177

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	93.4	94.2	P/P	78 - 118
Alachlor	93.7	93.8	P/P	77 - 119
Ametryn	93.8	101	P/P	61 - 136
Atrazine	87.9	94.7	P/P	73 - 120
Atrazine Desethyl	88.2	80.9	P/P	16 - 122
Azinphos Methyl	108	110	P/P	69 - 186
Bromacil	93.7	94.0	P/P	40 - 125
Butylate	52.2	47.5	P/P	32 - 87.0
Chlorpyrifos Ethyl	90.5	87.9	P/P	53 - 110
Chlorpyrifos Methyl	92.7	89.7	P/P	31 - 119
Cyanazine	128	129	P/P	36 - 224
Demeton	80.2	81.9	P/P	39 - 122
Diazinon	94.1	94.6	P/P	75 - 119
Disulfoton	92.4	89.9	P/P	42 - 139
EPTC	52.1	47.4	P/P	33 - 96.0
Ethion	95.6	96.8	P/P	63 - 127
Ethoprop	80.4	78.3	P/P	65 - 107
Fenamiphos	103	103	P/P	64 - 137
Fipronil	97.8	101	P/P	60 - 126
Fipronil Sulfide	94.4	96.3	P/P	58 - 124
Fipronil Sulfone	83.2	86.3	P/P	57 - 126
Fonofos	87.1	84.8	P/P	65 - 111
Hexazinone	84.6	86.1	P/P	46 - 151
Malathion	98.0	98.0	P/P	68 - 132
Metalaxyl	95.5	96.2	P/P	51 - 132
Metolachlor	93.3	94.3	P/P	78 - 119
Metribuzin	110	90.4	P/P	64 - 138
Mevinphos	78.1	76.9	P/P	34 - 128
Molinate	60.9	61.9	P/P	44 - 101
Norflurazon	93.0	96.0	P/P	63 - 129
Parathion Ethyl	92.8	93.4	P/P	80 - 109
Parathion Methyl	97.1	96.6	P/P	74 - 125
Pendimethalin	92.4	91.4	P/P	48 - 134
Phorate	77.2	75.1	P/P	52 - 119
Prometon	88.9	89.7	P/P	69 - 124
Prometryn	96.6	97.5	P/P	66 - 124
Simazine	101	97.5	P/P	61 - 134
Terbufos	90.9	86.7	P/P	58 - 115
Terbuthylazine	89.4	89.8	P/P	77 - 113

Reference Method: EPA 8276
 Batch ID: P323650

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P323650

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	58.2	60.4	P/P	44 - 118
Toxaphene	91.9	80.9	P/P	36 - 136

Reference Method: EPA 8321B
Batch ID: P323576

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Glyphosate	97.2		P	40 - 140

Reference Method: EPA 8321B
Batch ID: P323719

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pyraclostrobin	89.0		P	40 - 140

Reference Method: SM 2320 B-97
Batch ID: P324161

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	95 - 108

Reference Method: SM 2320 B-97
Batch ID: P324162

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	95 - 108

Reference Method: SM 4500 F-C-97
Batch ID: P324681

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.1		P	92 - 103

Reference Method: SM 4500 F-C-97
Batch ID: P324682

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.1		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P323620

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.4		P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P323583

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	82.8		P	40 - 140
Acetaminophen	88.5		P	40 - 140
Bentazon	77.4		P	40 - 140

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: USGS O-2060-01
Batch ID: P323583

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Carbamazepine	94.2		P	40 - 140
Diuron	79.4		P	40 - 140
Fenuron	93.3		P	40 - 140
Fluridone	92.0		P	40 - 140
Imidacloprid	82.9		P	40 - 160
Linuron	82.7		P	40 - 140
MCPP	86.0		P	40 - 140
Primidone	83.5		P	40 - 140
Triclopyr	86.1		P	40 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P323911

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1889763	Calcium	100		P	80 - 120
1889763	Iron	104		P	80 - 120
1889763	Magnesium	108		P	80 - 120
1889763	Sodium	97.3		P	80 - 120
1889763	Zinc	101		P	80 - 120
1890004	Calcium	102		P	80 - 120
1890004	Iron	104	103	P/P	80 - 120
1890004	Magnesium	106	105	P/P	80 - 120
1890004	Potassium	95.7	97.2	P/P	80 - 120
1890004	Sodium	100		P	80 - 120
1890004	Zinc	103	104	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P323911

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1889763	Arsenic	103		P	80 - 120
1889763	Cadmium	101		P	80 - 120
1889763	Chromium	103		P	80 - 120
1889763	Copper	102		P	80 - 120
1889763	Lead	103		P	80 - 120
1889763	Nickel	102		P	80 - 120
1889763	Silver	101		P	80 - 120
1890004	Arsenic	102	106	P/P	80 - 120
1890004	Cadmium	102	106	P/P	80 - 120
1890004	Chromium	102	105	P/P	80 - 120
1890004	Copper	99.5	102	P/P	80 - 120
1890004	Lead	103	106	P/P	80 - 120
1890004	Nickel	101	104	P/P	80 - 120
1890004	Silver	101	104	P/P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P324022

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1889733	Chloride	97.2		P	90 - 110
1889869	Chloride	99.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P324024

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1889733	Sulfate	97.5		P	90 - 110
1889869	Sulfate	97.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P323679

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1889689	Ammonia-N	98.5	98.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P323603

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1889688	Kjeldahl Nitrogen	105	108	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P323685

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1889734	Kjeldahl Nitrogen	106	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P323729

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1889587	NO2NO3-N	104	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P323730

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1889690	NO2NO3-N	100		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P323645

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1889585	Total-P	102	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P323646

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1889865	Total-P	107	105	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P323818

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1889689	Total-P	108	110	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P323584

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1889531	O-Phosphate-P	98.0	97.7	P/P	90 - 110

Reference Method: EPA 8270D
 Batch ID: P323644

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1889748	Acetochlor	90.3	89.8	P/P	74 - 123
1889748	Alachlor	87.9	89.9	P/P	73 - 124
1889748	Ametryn	123	119	P/P	56 - 149
1889748	Atrazine Desethyl	70.6	76.0	P/P	12 - 103
1889748	Azinphos Methyl	116	114	P/P	60 - 202
1889748	Bromacil	85.4	94.1	P/P	42 - 133
1889748	Butylate	35.7	34.5	P/P	10 - 85.0
1889748	Chlorpyrifos Ethyl	81.9	84.8	P/P	53 - 113
1889748	Chlorpyrifos Methyl	84.7	87.3	P/P	40 - 115
1889748	Cyanazine	101	104	P/P	22 - 210
1889748	Demeton	96.8	93.2	P/P	17 - 149
1889748	Diazinon	92.5	95.1	P/P	72 - 124
1889748	Disulfoton	93.5	89.3	P/P	43 - 139
1889748	EPTC	36.3	33.1	P/P	10 - 86.0
1889748	Ethion	85.8	76.5	P/P	65 - 131
1889748	Ethoprop	85.4	87.9	P/P	59 - 110
1889748	Fenamiphos	100	102	P/P	57 - 138
1889748	Fipronil	97.5	97.3	P/P	40 - 130
1889748	Fipronil Sulfide	83.7	93.8	P/P	36 - 128
1889748	Fipronil Sulfone	85.2	86.1	P/P	16 - 145
1889748	Fonofos	86.6	86.2	P/P	60 - 112
1889748	Hexazinone	87.4	86.1	P/P	69 - 142
1889748	Malathion	94.5	96.2	P/P	68 - 132
1889748	Metalaxyl	88.6	88.4	P/P	66 - 118
1889748	Metolachlor	90.7	90.8	P/P	71 - 124
1889748	Metribuzin	97.1	103	P/P	61 - 140
1889748	Mevinphos	91.4	99.8	P/P	38 - 130
1889748	Molinate	49.1	47.6	P/P	23 - 99.0
1889748	Norflurazon	89.2	86.5	P/P	39 - 139
1889748	Parathion Ethyl	91.6	93.3	P/P	75 - 111
1889748	Parathion Methyl	91.7	95.9	P/P	64 - 130
1889748	Pendimethalin	99.0	96.8	P/P	26 - 173
1889748	Phorate	97.6	99.5	P/P	43 - 127
1889748	Prometon	114	115	P/P	50 - 144
1889748	Prometryn	111	114	P/P	69 - 126
1889748	Simazine	108	112	P/P	51 - 152
1889748	Terbufos	89.8	90.4	P/P	54 - 125
1889748	Terbutylazine	88.4	89.6	P/P	76 - 113

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P323650

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1890268	Aldrin	33.9	36.6	P/P	30 - 83.0
1890268	Alpha-BHC	80.7	87.6	P/P	62 - 119
1890268	Alpha-Chlordane	63.3	65.0	P/P	56 - 119
1890268	Beta-BHC	90.0	115	P/P	54 - 141
1890268	Carbophenothion	79.2	69.1	P/P	33 - 147
1890268	Chlorothalonil	56.9	81.5	P/P	25 - 175
1890268	Cypermethrin	52.1	59.9	P/P	50 - 155
1890268	DDD-p,p'	72.9	77.5	P/P	56 - 135
1890268	DDE-p,p'	62.4	62.8	P/P	48 - 120
1890268	DDT-p,p'	70.3	71.2	P/P	51 - 121
1890268	Delta-BHC	111	120	P/P	65 - 163
1890268	Dicofol	78.6	68.9	P/P	15 - 112
1890268	Dieldrin	69.4	71.2	P/P	59 - 134
1890268	Endosulfan I	71.6	76.3	P/P	65 - 142
1890268	Endosulfan II	74.6	83.0	P/P	65 - 154
1890268	Endosulfan Sulfate	80.1	86.4	P/P	65 - 136
1890268	Endrin	69.0	70.4	P/P	53 - 156
1890268	Endrin Aldehyde	68.0	66.7	P/P	47 - 156
1890268	Endrin Ketone	82.4	87.0	P/P	70 - 124
1890268	Gamma-BHC	87.2	99.8	P/P	64 - 142
1890268	Gamma-Chlordane	60.9	60.6	P/P	55 - 114
1890268	Heptachlor	51.9	49.5	P/P	42 - 105
1890268	Heptachlor Epoxide	68.6	73.2	P/P	67 - 120
1890268	Methoxychlor	79.6	87.0	P/P	63 - 134
1890268	Mirex	49.0	47.6	P/P	40 - 90.0
1890268	Permethrin	63.0	71.3	P/P	36 - 144
1890268	Trifluralin	121	117	P/P	40 - 170

Reference Method: EPA 8270D
Batch ID: P325177

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1898851	Acetochlor	87.6	88.7	P/P	74 - 123
1898851	Alachlor	89.5	92.2	P/P	73 - 124
1898851	Ametryn	100	101	P/P	56 - 149
1898851	Atrazine	94.3	92.9	P/P	73 - 124
1898851	Atrazine Desethyl	62.9	63.7	P/P	12 - 103
1898851	Azinphos Methyl	98.3	87.7	P/P	60 - 202
1898851	Bromacil	96.2	93.5	P/P	42 - 133
1898851	Butylate	61.9	57.3	P/P	10 - 85.0
1898851	Chlorpyrifos Ethyl	78.0	78.7	P/P	53 - 113
1898851	Chlorpyrifos Methyl	70.3	69.4	P/P	40 - 115
1898851	Cyanazine	102	107	P/P	22 - 210
1898851	Demeton	69.1	61.3	P/P	17 - 149
1898851	Diazinon	84.2	86.1	P/P	72 - 124
1898851	Disulfoton	72.1	65.2	P/P	43 - 139
1898851	EPTC	57.8	61.7	P/P	10 - 86.0
1898851	Ethion	89.8	86.6	P/P	65 - 131
1898851	Ethoprop	66.1	67.5	P/P	59 - 110
1898851	Fenamiphos	96.9	92.0	P/P	57 - 138
1898851	Fipronil	101	99.1	P/P	40 - 130
1898851	Fipronil Sulfide	89.5	88.8	P/P	36 - 128

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P325177

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1898851	Fipronil Sulfone	85.9	82.8	P/P	16 - 145
1898851	Fonofos	62.7	67.2	P/P	60 - 112
1898851	Hexazinone	91.9	88.3	P/P	69 - 142
1898851	Malathion	87.4	84.2	P/P	68 - 132
1898851	Metalaxyl	93.2	96.5	P/P	66 - 118
1898851	Metolachlor	94.3	98.0	P/P	71 - 124
1898851	Metribuzin	62.9	73.7	P/P	61 - 140
1898851	Mevinphos	63.1	60.1	P/P	38 - 130
1898851	Molinate	70.0	69.3	P/P	23 - 99.0
1898851	Norflurazon	96.8	96.4	P/P	39 - 139
1898851	Parathion Ethyl	81.8	86.2	P/P	75 - 111
1898851	Parathion Methyl	81.5	79.0	P/P	64 - 130
1898851	Pendimethalin	85.9	88.8	P/P	26 - 173
1898851	Phorate	57.9	57.1	P/P	43 - 127
1898851	Prometon	93.9	94.7	P/P	50 - 144
1898851	Prometryn	99.0	100	P/P	69 - 126
1898851	Simazine	89.0	91.9	P/P	51 - 152
1898851	Terbufos	66.7	65.4	P/P	54 - 125
1898851	Terbutylazine	90.8	90.1	P/P	76 - 113

Reference Method: EPA 8276
Batch ID: P323650

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1889745	Chlordane	64.2	53.6	P/P	44 - 118
1889745	Toxaphene	88.1	76.9	P/P	36 - 136

Reference Method: EPA 8321B
Batch ID: P323576

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1889460	Glyphosate	72.6	73.0	P/P	40 - 140

Reference Method: EPA 8321B
Batch ID: P323719

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1889722	Pyraclostrobin	91.0	94.6	P/P	40 - 140

Reference Method: SM 4500 F-C-97
Batch ID: P324681

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1889584	Fluoride	98.9	100	P/P	91 - 105

Reference Method: SM 4500 F-C-97
Batch ID: P324682

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1890031	Fluoride	97.0	94.7	P/P	91 - 105

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 5310 B-00
 Batch ID: P323620

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1889481	Organic Carbon	100	97.6	P/P	85 - 115

Reference Method: USGS O-2060-01
 Batch ID: P323583

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1890011	2,4-D	83.7	81.0	P/P	40 - 140
1890011	Acetaminophen	89.2	88.1	P/P	40 - 140
1890011	Bentazon	71.6	69.1	P/P	40 - 140
1890011	Carbamazepine	90.7	99.5	P/P	40 - 140
1890011	Diuron	86.0	78.6	P/P	40 - 140
1890011	Fenuron	63.7	35.8	P/F	40 - 140
1890011	Fluridone	81.0	79.5	P/P	40 - 140
1890011	Imidacloprid	96.6	91.9	P/P	40 - 160
1890011	Linuron	83.7	79.2	P/P	40 - 140
1890011	MCCP	80.0	73.5	P/P	40 - 140
1890011	Primidone	86.9	85.6	P/P	40 - 140
1890011	Triclopyr	81.1	75.7	P/P	40 - 140

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P323593

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1889582	Turbidity	3.21	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P323594

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1889687	Turbidity	3.71	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
 Batch ID: P323911

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1890004	Calcium	1.70	Spike	P	0 - 20
1890004	Iron	0.365	Spike	P	0 - 20
1890004	Magnesium	0.454	Spike	P	0 - 20
1890004	Potassium	1.01	Spike	P	0 - 20
1890004	Sodium	2.20	Spike	P	0 - 20
1890004	Zinc	1.43	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P323911

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1890004	Arsenic	3.42	Spike	P	0 - 20
1890004	Cadmium	3.59	Spike	P	0 - 20
1890004	Chromium	2.64	Spike	P	0 - 20
1890004	Copper	2.72	Spike	P	0 - 20
1890004	Lead	2.52	Spike	P	0 - 20
1890004	Nickel	2.36	Spike	P	0 - 20
1890004	Silver	2.83	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P324022

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1889869	Chloride	0.110	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P324024

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1889869	Sulfate	1.34	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P323679

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1889689	Ammonia-N	0.346	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P323603

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1889688	Kjeldahl Nitrogen	2.34	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P323685

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1889734	Kjeldahl Nitrogen	1.01	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P323729

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1889587	NO2NO3-N	1.45	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P323730

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1889690	NO2NO3-N	0.928	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P323645

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1889585	Total-P	3.02	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P323646

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1889865	Total-P	2.49	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P323818

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1889689	Total-P	1.76	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P323584

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1889531	O-Phosphate-P	0.129	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P323644

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1889748	Acetochlor	0.541	Spike	P	0 - 30
1889748	Alachlor	2.20	Spike	P	0 - 30
1889748	Ametryn	3.16	Spike	P	0 - 30
1889748	Atrazine	0.455	Spike	P	0 - 30
1889748	Atrazine Desethyl	5.03	Spike	P	0 - 30
1889748	Azinphos Methyl	1.88	Spike	P	0 - 30
1889748	Bromacil	6.23	Spike	P	0 - 30
1889748	Butylate	3.28	Spike	P	0 - 30
1889748	Chlorpyrifos Ethyl	3.58	Spike	P	0 - 30
1889748	Chlorpyrifos Methyl	3.06	Spike	P	0 - 30
1889748	Cyanazine	2.31	Spike	P	0 - 30
1889748	Demeton	3.81	Spike	P	0 - 30
1889748	Diazinon	2.70	Spike	P	0 - 30
1889748	Disulfoton	4.54	Spike	P	0 - 30
1889748	EPTC	9.27	Spike	P	0 - 30
1889748	Ethion	11.5	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P323644

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1889748	Ethoprop	2.97	Spike	P	0 - 30
1889748	Fenamiphos	1.85	Spike	P	0 - 30
1889748	Fipronil	0.185	Spike	P	0 - 30
1889748	Fipronil Sulfide	9.44	Spike	P	0 - 30
1889748	Fipronil Sulfone	0.369	Spike	P	0 - 30
1889748	Fonofos	0.379	Spike	P	0 - 30
1889748	Hexazinone	1.51	Spike	P	0 - 30
1889748	Malathion	1.79	Spike	P	0 - 30
1889748	Metalaxyl	0.322	Spike	P	0 - 30
1889748	Metolachlor	0.102	Spike	P	0 - 30
1889748	Metribuzin	6.18	Spike	P	0 - 30
1889748	Mevinphos	8.82	Spike	P	0 - 30
1889748	Molinate	3.04	Spike	P	0 - 30
1889748	Norflurazon	3.02	Spike	P	0 - 30
1889748	Parathion Ethyl	1.87	Spike	P	0 - 30
1889748	Parathion Methyl	4.54	Spike	P	0 - 30
1889748	Pendimethalin	2.28	Spike	P	0 - 30
1889748	Phorate	1.86	Spike	P	0 - 30
1889748	Prometon	0.918	Spike	P	0 - 30
1889748	Prometryn	2.89	Spike	P	0 - 30
1889748	Simazine	2.69	Spike	P	0 - 30
1889748	Terbufos	0.726	Spike	P	0 - 30
1889748	Terbuthylazine	1.36	Spike	P	0 - 30
LFB	Acetochlor	7.88	LCS	P	0 - 30
LFB	Alachlor	10.8	LCS	P	0 - 30
LFB	Ametryn	10.2	LCS	P	0 - 30
LFB	Atrazine	5.00	LCS	P	0 - 30
LFB	Atrazine Desethyl	13.9	LCS	P	0 - 30
LFB	Azinphos Methyl	0.259	LCS	P	0 - 30
LFB	Bromacil	20.6	LCS	P	0 - 30
LFB	Butylate	6.46	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	3.72	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	2.00	LCS	P	0 - 30
LFB	Cyanazine	8.63	LCS	P	0 - 30
LFB	Demeton	17.9	LCS	P	0 - 30
LFB	Diazinon	10.9	LCS	P	0 - 30
LFB	Disulfoton	11.2	LCS	P	0 - 30
LFB	EPTC	3.27	LCS	P	0 - 30
LFB	Ethion	5.86	LCS	P	0 - 30
LFB	Ethoprop	16.8	LCS	P	0 - 30
LFB	Fenamiphos	2.38	LCS	P	0 - 30
LFB	Fipronil	9.08	LCS	P	0 - 30
LFB	Fipronil Sulfide	1.10	LCS	P	0 - 30
LFB	Fipronil Sulfone	0.00980	LCS	P	0 - 30
LFB	Fonofos	9.63	LCS	P	0 - 30
LFB	Hexazinone	6.23	LCS	P	0 - 30
LFB	Malathion	1.66	LCS	P	0 - 30
LFB	Metalaxyl	8.11	LCS	P	0 - 30
LFB	Metolachlor	8.26	LCS	P	0 - 30
LFB	Metribuzin	4.53	LCS	P	0 - 30
LFB	Mevinphos	11.1	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P323644

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Molinate	6.92	LCS	P	0 - 30
LFB	Norflurazon	4.65	LCS	P	0 - 30
LFB	Parathion Ethyl	8.22	LCS	P	0 - 30
LFB	Parathion Methyl	3.09	LCS	P	0 - 30
LFB	Pendimethalin	9.01	LCS	P	0 - 30
LFB	Phorate	27.3	LCS	P	0 - 30
LFB	Prometon	11.2	LCS	P	0 - 30
LFB	Prometryn	10.6	LCS	P	0 - 30
LFB	Simazine	7.92	LCS	P	0 - 30
LFB	Terbufos	12.0	LCS	P	0 - 30
LFB	Terbuthylazine	5.02	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P323650

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1890268	Aldrin	7.63	Spike	P	0 - 30
1890268	Alpha-BHC	8.17	Spike	P	0 - 30
1890268	Alpha-Chlordane	2.66	Spike	P	0 - 30
1890268	Beta-BHC	24.1	Spike	P	0 - 30
1890268	Carbophenothion	13.7	Spike	P	0 - 30
1890268	Chlorothalonil	35.5	Spike	F	0 - 30
1890268	Cypermethrin	13.9	Spike	P	0 - 30
1890268	DDD-p,p'	6.11	Spike	P	0 - 30
1890268	DDE-p,p'	0.533	Spike	P	0 - 30
1890268	DDT-p,p'	1.19	Spike	P	0 - 30
1890268	Delta-BHC	7.43	Spike	P	0 - 30
1890268	Dicofol	13.2	Spike	P	0 - 30
1890268	Dieldrin	2.60	Spike	P	0 - 30
1890268	Endosulfan I	6.41	Spike	P	0 - 30
1890268	Endosulfan II	10.7	Spike	P	0 - 30
1890268	Endosulfan Sulfate	7.60	Spike	P	0 - 30
1890268	Endrin	2.04	Spike	P	0 - 30
1890268	Endrin Aldehyde	1.83	Spike	P	0 - 30
1890268	Endrin Ketone	5.36	Spike	P	0 - 30
1890268	Gamma-BHC	13.5	Spike	P	0 - 30
1890268	Gamma-Chlordane	0.416	Spike	P	0 - 30
1890268	Heptachlor	4.82	Spike	P	0 - 30
1890268	Heptachlor Epoxide	6.38	Spike	P	0 - 30
1890268	Methoxychlor	8.91	Spike	P	0 - 30
1890268	Mirex	2.75	Spike	P	0 - 30
1890268	Permethrin	12.4	Spike	P	0 - 30
1890268	Trifluralin	3.10	Spike	P	0 - 30
LFB	Aldrin	9.33	LCS	P	0 - 30
LFB	Alpha-BHC	6.55	LCS	P	0 - 30
LFB	Alpha-Chlordane	13.9	LCS	P	0 - 30
LFB	Beta-BHC	3.52	LCS	P	0 - 30
LFB	Carbophenothion	20.3	LCS	P	0 - 30
LFB	Chlorothalonil	7.41	LCS	P	0 - 30
LFB	Cypermethrin	12.8	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P323650

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	DDD-p,p'	9.85	LCS	P	0 - 30
LFB	DDE-p,p'	10.6	LCS	P	0 - 30
LFB	DDT-p,p'	4.03	LCS	P	0 - 30
LFB	Delta-BHC	5.05	LCS	P	0 - 30
LFB	Dicofol	20.9	LCS	P	0 - 30
LFB	Dieldrin	21.4	LCS	P	0 - 30
LFB	Endosulfan I	13.5	LCS	P	0 - 30
LFB	Endosulfan II	0.729	LCS	P	0 - 30
LFB	Endosulfan Sulfate	5.57	LCS	P	0 - 30
LFB	Endrin	29.3	LCS	P	0 - 30
LFB	Endrin Aldehyde	24.4	LCS	P	0 - 30
LFB	Endrin Ketone	8.79	LCS	P	0 - 30
LFB	Gamma-BHC	11.1	LCS	P	0 - 30
LFB	Gamma-Chlordane	12.5	LCS	P	0 - 30
LFB	Heptachlor	7.11	LCS	P	0 - 30
LFB	Heptachlor Epoxide	13.0	LCS	P	0 - 30
LFB	Methoxychlor	9.60	LCS	P	0 - 30
LFB	Mirex	0.394	LCS	P	0 - 30
LFB	Permethrin	15.5	LCS	P	0 - 30
LFB	Trifluralin	11.3	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P325177

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1898851	Acetochlor	1.21	Spike	P	0 - 30
1898851	Alachlor	2.91	Spike	P	0 - 30
1898851	Ametryn	0.472	Spike	P	0 - 30
1898851	Atrazine	1.45	Spike	P	0 - 30
1898851	Atrazine Desethyl	1.33	Spike	P	0 - 30
1898851	Azinphos Methyl	11.3	Spike	P	0 - 30
1898851	Bromacil	2.92	Spike	P	0 - 30
1898851	Butylate	7.77	Spike	P	0 - 30
1898851	Chlorpyrifos Ethyl	0.790	Spike	P	0 - 30
1898851	Chlorpyrifos Methyl	1.27	Spike	P	0 - 30
1898851	Cyanazine	5.14	Spike	P	0 - 30
1898851	Demeton	12.0	Spike	P	0 - 30
1898851	Diazinon	2.17	Spike	P	0 - 30
1898851	Disulfoton	10.0	Spike	P	0 - 30
1898851	EPTC	6.51	Spike	P	0 - 30
1898851	Ethion	3.59	Spike	P	0 - 30
1898851	Ethoprop	2.08	Spike	P	0 - 30
1898851	Fenamiphos	5.13	Spike	P	0 - 30
1898851	Fipronil	1.94	Spike	P	0 - 30
1898851	Fipronil Sulfide	0.773	Spike	P	0 - 30
1898851	Fipronil Sulfone	3.74	Spike	P	0 - 30
1898851	Fonofos	6.87	Spike	P	0 - 30
1898851	Hexazinone	4.06	Spike	P	0 - 30
1898851	Malathion	3.72	Spike	P	0 - 30
1898851	Metalaxyl	3.44	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P325177

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1898851	Metolachlor	3.84	Spike	P	0 - 30
1898851	Metribuzin	15.8	Spike	P	0 - 30
1898851	Mevinphos	4.92	Spike	P	0 - 30
1898851	Molinate	0.924	Spike	P	0 - 30
1898851	Norflurazon	0.414	Spike	P	0 - 30
1898851	Parathion Ethyl	5.25	Spike	P	0 - 30
1898851	Parathion Methyl	3.15	Spike	P	0 - 30
1898851	Pendimethalin	3.31	Spike	P	0 - 30
1898851	Phorate	1.43	Spike	P	0 - 30
1898851	Prometon	0.861	Spike	P	0 - 30
1898851	Prometryn	1.48	Spike	P	0 - 30
1898851	Simazine	3.19	Spike	P	0 - 30
1898851	Terbufos	1.97	Spike	P	0 - 30
1898851	Terbuthylazine	0.746	Spike	P	0 - 30
LFB	Acetochlor	0.883	LCS	P	0 - 30
LFB	Alachlor	0.150	LCS	P	0 - 30
LFB	Ametryn	7.82	LCS	P	0 - 30
LFB	Atrazine	7.49	LCS	P	0 - 30
LFB	Atrazine Desethyl	8.65	LCS	P	0 - 30
LFB	Azinphos Methyl	1.64	LCS	P	0 - 30
LFB	Bromacil	0.266	LCS	P	0 - 30
LFB	Butylate	9.44	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	2.87	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	3.25	LCS	P	0 - 30
LFB	Cyanazine	0.803	LCS	P	0 - 30
LFB	Demeton	2.11	LCS	P	0 - 30
LFB	Diazinon	0.620	LCS	P	0 - 30
LFB	Disulfoton	2.80	LCS	P	0 - 30
LFB	EPTC	9.44	LCS	P	0 - 30
LFB	Ethion	1.32	LCS	P	0 - 30
LFB	Ethoprop	2.53	LCS	P	0 - 30
LFB	Fenamiphos	0.759	LCS	P	0 - 30
LFB	Fipronil	3.70	LCS	P	0 - 30
LFB	Fipronil Sulfide	1.98	LCS	P	0 - 30
LFB	Fipronil Sulfone	3.69	LCS	P	0 - 30
LFB	Fonofos	2.72	LCS	P	0 - 30
LFB	Hexazinone	1.78	LCS	P	0 - 30
LFB	Malathion	0.0995	LCS	P	0 - 30
LFB	Metalaxyl	0.692	LCS	P	0 - 30
LFB	Metolachlor	1.00	LCS	P	0 - 30
LFB	Metribuzin	19.8	LCS	P	0 - 30
LFB	Mevinphos	1.56	LCS	P	0 - 30
LFB	Molinate	1.57	LCS	P	0 - 30
LFB	Norflurazon	3.17	LCS	P	0 - 30
LFB	Parathion Ethyl	0.640	LCS	P	0 - 30
LFB	Parathion Methyl	0.516	LCS	P	0 - 30
LFB	Pendimethalin	1.09	LCS	P	0 - 30
LFB	Phorate	2.72	LCS	P	0 - 30
LFB	Prometon	0.913	LCS	P	0 - 30
LFB	Prometryn	0.876	LCS	P	0 - 30
LFB	Simazine	3.29	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P325177

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Terbufos	4.68	LCS	P	0 - 30
LFB	Terbuthylazine	0.553	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P323650

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1889745	Chlordane	18.1	Spike	P	0 - 30
1889745	Toxaphene	13.6	Spike	P	0 - 30
LFB	Chlordane	3.60	LCS	P	0 - 30
LFB	Toxaphene	12.7	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P323576

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1889460	Glyphosate	0.549	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P323719

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1889722	Pyraclostrobin	3.88	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P323596

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1889583	Color (true)	1.59	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P323597

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1889686	Color (true)	3.33	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P324161

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1889584	Total Alkalinity	0.0800	Sample	P	0 - 4.8

Quality Assurance Report Precision

Reference Method: SM 2320 B-97
Batch ID: P324162

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1890031	Total Alkalinity	0.0193	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P323874

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1889732	TDS	8.30	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P324681

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1889584	Fluoride	0.974	Spike	P	0 - 3.0

Reference Method: SM 4500 F-C-97
Batch ID: P324682

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1890031	Fluoride	0.461	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P323620

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1889481	Organic Carbon	1.57	Spike	P	0 - 20

Reference Method: USGS O-2060-01
Batch ID: P323583

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1890011	2,4-D	3.28	Spike	P	0 - 30
1890011	Acetaminophen	1.24	Spike	P	0 - 30
1890011	Bentazon	3.55	Spike	P	0 - 30
1890011	Carbamazepine	9.25	Spike	P	0 - 30
1890011	Diuron	8.99	Spike	P	0 - 30
1890011	Fenuron	56.1	Spike	F	0 - 30
1890011	Fluridone	1.80	Spike	P	0 - 30
1890011	Imidacloprid	4.99	Spike	P	0 - 30
1890011	Linuron	5.52	Spike	P	0 - 30
1890011	MCP	8.47	Spike	P	0 - 30
1890011	Primidone	1.51	Spike	P	0 - 30
1890011	Triclopyr	6.89	Spike	P	0 - 30

* Sample, spike and/or laboratory control sample precision (LCS) is reported.
Replicate spike precision may be reported when sample results are below quantifiable levels.

Quality Assurance Report Surrogates

Lab Sample ID: 1889719

Field Sample ID: G4NW0240

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Glyphosate 13C 15N	75.8	P	40 - 150
USGS O-2060-01	2,4-D-d3	78.4	P	40 - 150
USGS O-2060-01	Acetaminophen-d4	101	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	114	P	30 - 160
USGS O-2060-01	Diuron-d6	98.4	P	30 - 150
USGS O-2060-01	Primidone-d5	78.4	P	30 - 150

Lab Sample ID: 1889720

Field Sample ID: G4NW0240DUPLICATE

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Glyphosate 13C 15N	77.4	P	40 - 150
USGS O-2060-01	2,4-D-d3	77.2	P	40 - 150
USGS O-2060-01	Acetaminophen-d4	102	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	115	P	30 - 160
USGS O-2060-01	Diuron-d6	93.6	P	30 - 150
USGS O-2060-01	Primidone-d5	80.0	P	30 - 150

Lab Sample ID: 1889721

Field Sample ID: FIELDBLANK

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Glyphosate 13C 15N	86.0	P	40 - 150
USGS O-2060-01	2,4-D-d3	75.8	P	40 - 150
USGS O-2060-01	Acetaminophen-d4	91.0	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	103	P	30 - 160
USGS O-2060-01	Diuron-d6	96.2	P	30 - 150
USGS O-2060-01	Primidone-d5	77.8	P	30 - 150

Lab Sample ID: 1889722

Field Sample ID: G4NW0240

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Diuron-d6	96.0	P	30 - 150

Lab Sample ID: 1889723

Field Sample ID: G4NW0240DUPLICATE

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Diuron-d6	108	P	30 - 150

Lab Sample ID: 1889724

Field Sample ID: FIELDBLANK

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Diuron-d6	96.4	P	30 - 150

Lab Sample ID: 1889745

Field Sample ID: G4NW0240

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	62.6	P	51 - 123

Quality Assurance Report Surrogates

Lab Sample ID: 1889745
Field Sample ID: G4NW0240

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Tetrachloro-m-xylene	55.4	P	31 - 111
EPA 8276	Decachlorobiphenyl	62.1	P	41 - 106

Lab Sample ID: 1889746
Field Sample ID: G4NW0240DUPLICATE

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	55.7	P	51 - 123
EPA 8270D	Tetrachloro-m-xylene	47.5	P	31 - 111
EPA 8276	Decachlorobiphenyl	57.9	P	41 - 106

Lab Sample ID: 1889747
Field Sample ID: FIELDBLANK

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	58.4	P	51 - 123
EPA 8270D	Tetrachloro-m-xylene	59.7	P	31 - 111
EPA 8276	Decachlorobiphenyl	62.6	P	41 - 106

Lab Sample ID: 1889748
Field Sample ID: G4NW0240

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	75.2	P	62 - 132
EPA 8270D	Malathion-d7	80.8	P	62 - 132
EPA 8270D	Simazine-d10	93.9	P	72 - 127
EPA 8270D	Simazine-d10	91.7	P	72 - 127

Lab Sample ID: 1889749
Field Sample ID: G4NW0240DUPLICATE

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	83.7	P	62 - 132
EPA 8270D	Malathion-d7	78.2	P	62 - 132
EPA 8270D	Simazine-d10	105	P	72 - 127
EPA 8270D	Simazine-d10	60.8	F	72 - 127

Lab Sample ID: 1889750
Field Sample ID: FIELDBLANK

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	63.2	P	62 - 132
EPA 8270D	Simazine-d10	96.6	P	72 - 127

Quality Assurance Report Calibration Verification

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A75846

Included Lab Sample IDs: 1889684, 1889691, 1889692, 1889693

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.8	98.4	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A75851

Included Lab Sample IDs: 1889682, 1889685, 1889686, 1889687

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	98.5	P/P	95 - 105
Turbidity	98.5	99.5	P/P	95 - 105

Reference Method: SM 2120 B

Run ID: A75852

Included Lab Sample IDs: 1889682, 1889685, 1889686, 1889687

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	85 - 115
Color (true)	102	97.7	P/P	85 - 115
Color (true)	98.8	101	P/P	85 - 115

Reference Method: SM 5310 B-00

Run ID: A75860

Included Lab Sample IDs: 1889683, 1889688, 1889689, 1889690

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.4	95.7	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A75888

Included Lab Sample IDs: 1889683, 1889688, 1889689, 1889690

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A75902

Included Lab Sample IDs: 1889683, 1889688, 1889689, 1889690

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A75904

Included Lab Sample IDs: 1889683, 1889688

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	102	P/P	90 - 110
Kjeldahl Nitrogen	104	108	P/P	90 - 110

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Reference Method: EPA 365.1 Rev. 2.0

Run ID: A75905

Included Lab Sample IDs: 1889683, 1889688, 1889690

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.0	99.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A75928

Included Lab Sample IDs: 1889689, 1889690

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

Reference Method: EPA 8321B

Run ID: A75930

Included Lab Sample IDs: 1889719, 1889720, 1889721

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Glyphosate	84.0	90.2	P/P	70 - 130

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A75967

Included Lab Sample IDs: 1889689

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A75991

Included Lab Sample IDs: 1889763

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	99.7	99.4	P/P	90 - 110
Iron	98.0	97.3	P/P	90 - 110
Magnesium	99.0	98.7	P/P	90 - 110
Potassium	99.3	99.5	P/P	90 - 110
Sodium	96.9	95.4	P/P	90 - 110
Zinc	101	101	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A75999

Included Lab Sample IDs: 1889682, 1889685, 1889686, 1889687

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	99.7	P/P	90 - 110
Sulfate	98.1	93.8	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A76024

Included Lab Sample IDs: 1889722, 1889723, 1889724

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraclostrobin	124	106	P/P	60 - 150

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Reference Method: EPA 200.8 Rev. 5.4

Run ID: A76039

Included Lab Sample IDs: 1889763

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	96.8	95.5	P/P	90 - 110
Cadmium	94.1	94.3	P/P	90 - 110
Chromium	98.6	97.1	P/P	90 - 110
Copper	97.9	96.7	P/P	90 - 110
Lead	99.4	98.9	P/P	90 - 110
Nickel	96.9	95.7	P/P	90 - 110
Silver	95.6	95.2	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A76045

Included Lab Sample IDs: 1889682, 1889685, 1889686, 1889687

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

Reference Method: EPA 8276

Run ID: A76103

Included Lab Sample IDs: 1889745, 1889746, 1889747

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	104		P	80 - 120
Toxaphene	110		P	80 - 120

Reference Method: EPA 8270D

Run ID: A76121

Included Lab Sample IDs: 1889745, 1889746, 1889747

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	97.2		P	80 - 120
Alpha-BHC	102		P	80 - 120
Alpha-Chlordane	102		P	80 - 120
Beta-BHC	100		P	80 - 120
Carbophenothion	98.6		P	80 - 120
Chlorothalonil	73.8*		F	80 - 120
Cypermethrin	90.4		P	80 - 120
DDD-p,p'	98.7		P	80 - 120
DDE-p,p'	101		P	80 - 120
DDT-p,p'	107		P	80 - 120
Delta-BHC	91.7		P	80 - 120
Dicofol	153*		F	80 - 120
Dieldrin	99.0		P	80 - 120
Endosulfan I	94.0		P	80 - 120
Endosulfan II	85.6		P	80 - 120
Endosulfan Sulfate	95.9		P	80 - 120
Endrin	94.2		P	80 - 120
Endrin Aldehyde	95.9		P	80 - 120
Endrin Ketone	95.2		P	80 - 120
Gamma-BHC	103		P	80 - 120
Gamma-Chlordane	101		P	80 - 120
Heptachlor	95.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A76121

Included Lab Sample IDs: 1889745, 1889746, 1889747

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Heptachlor Epoxide	99.2		P	80 - 120
Methoxychlor	107		P	80 - 120
Mirex	101		P	80 - 120
Permethrin	94.5		P	80 - 120
Trifluralin	95.0		P	80 - 120

Reference Method: SM 4500 F-C-97

Run ID: A76201

Included Lab Sample IDs: 1889682, 1889685, 1889686, 1889687

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

Reference Method: EPA 8270D

Run ID: A76262

Included Lab Sample IDs: 1889748, 1889750

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	98.7		P	80 - 120
Alachlor	99.2		P	80 - 120
Ametryn	99.9		P	80 - 120
Atrazine	101		P	80 - 120
Atrazine Desethyl	99.7		P	80 - 120
Azinphos Methyl	99.7		P	80 - 120
Bromacil	104		P	80 - 120
Butylate	101		P	80 - 120
Chlorpyrifos Ethyl	97.7		P	80 - 120
Chlorpyrifos Methyl	100		P	80 - 120
Cyanazine	89.9		P	80 - 120
Demeton	99.5		P	80 - 120
Diazinon	100		P	80 - 120
Disulfoton	95.6		P	80 - 120
EPTC	104		P	80 - 120
Ethion	95.2		P	80 - 120
Ethoprop	100		P	80 - 120
Fenamiphos	96.6		P	80 - 120
Fipronil	96.7		P	80 - 120
Fipronil Sulfide	98.6		P	80 - 120
Fipronil Sulfone	97.7		P	80 - 120
Fonofos	98.4		P	80 - 120
Hexazinone	101		P	80 - 120
Malathion	98.1		P	80 - 120
Metalaxyl	99.2		P	80 - 120
Metolachlor	103		P	80 - 120
Metribuzin	94.9		P	80 - 120
Mevinphos	117		P	80 - 120
Molinate	103		P	80 - 120
Norflurazon	99.5		P	80 - 120
Parathion Ethyl	98.8		P	80 - 120
Parathion Methyl	94.4		P	80 - 120
Pendimethalin	91.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A76262

Included Lab Sample IDs: 1889748, 1889750

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Phorate	95.3		P	80 - 120
Prometon	101		P	80 - 120
Prometryn	95.6		P	80 - 120
Simazine	99.5		P	80 - 120
Terbufos	95.4		P	80 - 120
Terbutylazine	100		P	80 - 120

Reference Method: USGS O-2060-01

Run ID: A76387

Included Lab Sample IDs: 1889719, 1889720, 1889721

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	96.8	96.3	P/P	50 - 150
Acetaminophen	109	101	P/P	60 - 150
Bentazon	65.6	66.9	P/P	50 - 150
Carbamazepine	93.9	95.4	P/P	60 - 150
Diuron	92.8	90.8	P/P	60 - 150
Fenuron	107	106	P/P	60 - 150
Fluridone	84.8	79.8	P/P	60 - 150
Imidacloprid	98.2	92.4	P/P	60 - 150
Linuron	103	96.6	P/P	60 - 150
MCPP	90.1	92.2	P/P	50 - 150
Primidone	92.4	98.2	P/P	60 - 150
Triclopyr	93.4	93.6	P/P	50 - 150

Reference Method: EPA 8270D

Run ID: A76750

Included Lab Sample IDs: 1889749

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	101		P	80 - 120
Alachlor	103		P	80 - 120
Ametryn	103		P	80 - 120
Atrazine	100		P	80 - 120
Atrazine Desethyl	89.5		P	80 - 120
Azinphos Methyl	102		P	80 - 120
Bromacil	99.0		P	80 - 120
Butylate	104		P	80 - 120
Chlorpyrifos Ethyl	96.7		P	80 - 120
Chlorpyrifos Methyl	100		P	80 - 120
Cyanazine	93.5		P	80 - 120
Demeton	96.7		P	80 - 120
Diazinon	102		P	80 - 120
Disulfoton	96.4		P	80 - 120
EPTC	101		P	80 - 120
Ethion	98.4		P	80 - 120
Ethoprop	99.4		P	80 - 120
Fenamiphos	96.0		P	80 - 120
Fipronil	100		P	80 - 120
Fipronil Sulfide	99.1		P	80 - 120
Fipronil Sulfone	99.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D
Run ID: A76750
Included Lab Sample IDs: 1889749

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fonofos	96.1		P	80 - 120
Hexazinone	101		P	80 - 120
Malathion	97.8		P	80 - 120
Metalaxyl	103		P	80 - 120
Metolachlor	106		P	80 - 120
Metribuzin	76.5*		F	80 - 120
Mevinphos	101		P	80 - 120
Molinate	97.8		P	80 - 120
Norflurazon	98.7		P	80 - 120
Parathion Ethyl	95.2		P	80 - 120
Parathion Methyl	96.9		P	80 - 120
Pendimethalin	100		P	80 - 120
Phorate	98.0		P	80 - 120
Prometon	99.3		P	80 - 120
Prometryn	103		P	80 - 120
Simazine	97.8		P	80 - 120
Terbufos	100		P	80 - 120
Terbutylazine	99.0		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						3.21	
	Turbidity						3.71	
EPA 200.7 Rev. 4.4	Calcium	103	100	102				1.70
	Iron	103	104	104	103			0.365
	Magnesium	108	108	106	105			0.454
	Potassium	101	95.7	97.2				1.01
	Sodium	100	97.3	100				2.20
	Zinc	100	101	103	104			1.43
EPA 200.8 Rev. 5.4	Arsenic	101	103	102	106			3.42
	Cadmium	98.9	101	102	106			3.59
	Chromium	101	103	102	105			2.64
	Copper	98.1	102	99.5	102			2.72
	Lead	101	103	103	106			2.52
	Nickel	101	102	101	104			2.36
	Silver	99.7	101	101	104			2.83
EPA 300.0 Rev. 2.1	Chloride	100	99.0	97.2			0.110	
	Sulfate	94.5	97.7	97.5			1.34	
EPA 350.1 Rev. 2.0	Ammonia-N	104	98.5	98.0				0.346
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101	105	108				2.34
	Kjeldahl Nitrogen	103	106	104				1.01
EPA 353.2 Rev. 2.0	NO2NO3-N	105	104	102				1.45
	NO2NO3-N	104	100					0.928

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision	MS
							SMP	
EPA 365.1 Rev. 2.0	Total-P	107		102	106			3.02
	Total-P	103		107	105			2.49
	Total-P	109		108	110			1.76
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.8		98.0	97.7			0.129
EPA 8270D	Acetochlor	88.1	95.3	90.3	89.8	7.88		0.541
	Acetochlor	93.4	94.2	87.6	88.7	0.883		1.21
	Alachlor	87.1	97.1	87.9	89.9	10.8		2.20
	Alachlor	93.7	93.8	89.5	92.2	0.150		2.91
	Aldrin	26.5	24.2	33.9	36.6	9.33		7.63
	Alpha-BHC	91.3	85.5	80.7	87.6	6.55		8.17
	Alpha-Chlordane	64.9	56.4	63.3	65.0	13.9		2.66
	Ametryn	103	114	123	119	10.2		3.16
	Ametryn	93.8	101	100	101	7.82		0.472
	Atrazine	93.5	98.3			5.00		0.455
	Atrazine	87.9	94.7	94.3	92.9	7.49		1.45
	Atrazine Desethyl	73.1	84.1	70.6	76.0	13.9		5.03
	Atrazine Desethyl	88.2	80.9	62.9	63.7	8.65		1.33
	Azinphos Methyl	124	125	116	114	0.259		1.88
	Azinphos Methyl	108	110	98.3	87.7	1.64		11.3
	Beta-BHC	109	113	90.0	115	3.52		24.1
	Bromacil	69.1	85.1	85.4	94.1	20.6		6.23
	Bromacil	93.7	94.0	96.2	93.5	0.266		2.92
	Butylate	56.3	60.0	35.7	34.5	6.46		3.28
	Butylate	52.2	47.5	61.9	57.3	9.44		7.77
	Carbophenothion	83.6	103	79.2	69.1	20.3		13.7
	Chlorothalonil	66.2	71.3	56.9	81.5	7.41		35.5
	Chlorpyrifos Ethyl	86.4	89.7	81.9	84.8	3.72		3.58
	Chlorpyrifos Ethyl	90.5	87.9	78.0	78.7	2.87		0.790
	Chlorpyrifos Methyl	91.3	89.5	84.7	87.3	2.00		3.06
	Chlorpyrifos Methyl	92.7	89.7	70.3	69.4	3.25		1.27
	Cyanazine	104	113	101	104	8.63		2.31
	Cyanazine	128	129	102	107	0.803		5.14
	Cypermethrin	47.3	53.8	52.1	59.9	12.8		13.9
	DDD-p,p'	84.6	76.6	72.9	77.5	9.85		6.11
	DDE-p,p'	58.9	53.0	62.4	62.8	10.6		0.533
	DDT-p,p'	69.8	67.0	70.3	71.2	4.03		1.19
	Delta-BHC	111	105	111	120	5.05		7.43
	Demeton	86.0	103	96.8	93.2	17.9		3.81
	Demeton	80.2	81.9	69.1	61.3	2.11		12.0
	Diazinon	90.2	101	92.5	95.1	10.9		2.70
	Diazinon	94.1	94.6	84.2	86.1	0.620		2.17
	Dicofol	37.3	30.3	78.6	68.9	20.9		13.2
	Dieldrin	84.6	68.2	69.4	71.2	21.4		2.60
	Disulfoton	81.6	91.3	93.5	89.3	11.2		4.54
	Disulfoton	92.4	89.9	72.1	65.2	2.80		10.0
	Endosulfan I	81.8	71.5	71.6	76.3	13.5		6.41
	Endosulfan II	86.2	85.6	74.6	83.0	0.729		10.7
	Endosulfan Sulfate	96.8	91.6	80.1	86.4	5.57		7.60
	Endrin	89.0	66.2	69.0	70.4	29.3		2.04
	Endrin Aldehyde	81.8	64.0	68.0	66.7	24.4		1.83
	Endrin Ketone	93.1	102	82.4	87.0	8.79		5.36
	EPTC	57.5	59.4	36.3	33.1	3.27		9.27
	EPTC	52.1	47.4	57.8	61.7	9.44		6.51
	Ethion	90.0	95.4	85.8	76.5	5.86		11.5

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Ethion	95.6	96.8	89.8	86.6	1.32	3.59
	Ethoprop	86.7	103	85.4	87.9	16.8	2.97
	Ethoprop	80.4	78.3	66.1	67.5	2.53	2.08
	Fenamiphos	105	107	100	102	2.38	1.85
	Fenamiphos	103	103	96.9	92.0	0.759	5.13
	Fipronil	94.3	103	97.5	97.3	9.08	0.185
	Fipronil	97.8	101	101	99.1	3.70	1.94
	Fipronil Sulfide	96.4	95.3	83.7	93.8	1.10	9.44
	Fipronil Sulfide	94.4	96.3	89.5	88.8	1.98	0.773
	Fipronil Sulfone	89.3	89.3	85.2	86.1	0.0098	0.369
	Fipronil Sulfone	83.2	86.3	85.9	82.8	3.69	3.74
	Fonofos	88.6	97.5	86.6	86.2	9.63	0.379
	Fonofos	87.1	84.8	62.7	67.2	2.72	6.87
	Gamma-BHC	99.3	88.9	87.2	99.8	11.1	13.5
	Gamma-Chlordane	56.9	50.2	60.9	60.6	12.5	0.416
	Heptachlor	47.6	44.4	51.9	49.5	7.11	4.82
	Heptachlor Epoxide	79.6	69.9	68.6	73.2	13.0	6.38
	Hexazinone	89.5	95.3	87.4	86.1	6.23	1.51
	Hexazinone	84.6	86.1	91.9	88.3	1.78	4.06
	Malathion	96.1	97.7	94.5	96.2	1.66	1.79
	Malathion	98.0	98.0	87.4	84.2	0.0995	3.72
	Metalaxyl	87.9	95.3	88.6	88.4	8.11	0.322
	Metalaxyl	95.5	96.2	93.2	96.5	0.692	3.44
	Methoxychlor	92.1	83.7	79.6	87.0	9.60	8.91
	Metolachlor	90.4	98.2	90.7	90.8	8.26	0.102
	Metolachlor	93.3	94.3	94.3	98.0	1.00	3.84
	Metribuzin	95.9	100	97.1	103	4.53	6.18
	Metribuzin	110	90.4	62.9	73.7	19.8	15.8
	Mevinphos	106	118	91.4	99.8	11.1	8.82
	Mevinphos	78.1	76.9	63.1	60.1	1.56	4.92
	Mirex	36.5	36.3	49.0	47.6	0.394	2.75
	Molinate	62.9	67.4	49.1	47.6	6.92	3.04
	Molinate	60.9	61.9	70.0	69.3	1.57	0.924
	Norflurazon	93.4	97.9	89.2	86.5	4.65	3.02
	Norflurazon	93.0	96.0	96.8	96.4	3.17	0.414
	Parathion Ethyl	90.4	98.1	91.6	93.3	8.22	1.87
	Parathion Ethyl	92.8	93.4	81.8	86.2	0.640	5.25
	Parathion Methyl	92.5	95.4	91.7	95.9	3.09	4.54
	Parathion Methyl	97.1	96.6	81.5	79.0	0.516	3.15
	Pendimethalin	90.6	99.2	99.0	96.8	9.01	2.28
	Pendimethalin	92.4	91.4	85.9	88.8	1.09	3.31
	Permethrin	56.0	65.5	63.0	71.3	15.5	12.4
	Phorate	87.0	114	97.6	99.5	27.3	1.86
	Phorate	77.2	75.1	57.9	57.1	2.72	1.43
	Prometon	94.8	106	114	115	11.2	0.918
	Prometon	88.9	89.7	93.9	94.7	0.913	0.861
	Prometryn	102	114	111	114	10.6	2.89
	Prometryn	96.6	97.5	99.0	100	0.876	1.48
	Simazine	92.7	100	108	112	7.92	2.69
	Simazine	101	97.5	89.0	91.9	3.29	3.19
	Terbufos	87.1	98.2	89.8	90.4	12.0	0.726
	Terbufos	90.9	86.7	66.7	65.4	4.68	1.97
	Terbuthylazine	88.5	93.0	88.4	89.6	5.02	1.36
	Terbuthylazine	89.4	89.8	90.8	90.1	0.553	0.746

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
EPA 8270D	Trifluralin	98.2	110	121	117	11.3	3.10
EPA 8276	Chlordane	58.2	60.4	64.2	53.6	3.60	18.1
	Toxaphene	91.9	80.9	88.1	76.9	12.7	13.6
	Glyphosate	97.2		72.6	73.0		0.549
EPA 8321B	Pyraclostrobin	89.0		91.0	94.6		3.88
SM 2120 B	Color (true)					1.59	
	Color (true)					3.33	
SM 2320 B-97	Total Alkalinity	102				0.0800	
	Total Alkalinity	102				0.0193	
SM 2540 C-97	TDS					8.30	
SM 4500 F-C-97	Fluoride	98.1		98.9	100		0.974
	Fluoride	98.1		97.0	94.7		0.461
SM 5310 B-00	Organic Carbon	97.4		100	97.6		1.57
USGS O-2060-01	2,4-D	82.8		83.7	81.0		3.28
	Acetaminophen	88.5		89.2	88.1		1.24
	Bentazon	77.4		71.6	69.1		3.55
	Carbamazepine	94.2		90.7	99.5		9.25
	Diuron	79.4		86.0	78.6		8.99
	Fenuron	93.3		63.7	35.8		56.1
	Fluridone	92.0		81.0	79.5		1.80
	Imidacloprid	82.9		96.6	91.9		4.99
	Linuron	82.7		83.7	79.2		5.52
	MCP	86.0		80.0	73.5		8.47
	Primidone	83.5		86.9	85.6		1.51
	Triclopyr	86.1		81.1	75.7		6.89

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1889682, 1889685, 1889686, 1889687
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1889763
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1889763
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1889682, 1889685, 1889686, 1889687
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1889682, 1889685, 1889686, 1889687
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1889683, 1889688, 1889689, 1889690
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1889683, 1889688, 1889689, 1889690
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1889683, 1889688, 1889689, 1889690
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1889683, 1889688, 1889689, 1889690
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1889684, 1889691, 1889692, 1889693
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	1889745, 1889746, 1889747
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1889748, 1889749, 1889750
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	1889745, 1889746, 1889747
EPA 8321B / E31780	Glyphosate in water matrices by HPLC/MS/MS	1889719, 1889720, 1889721

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 8321B / E31780	Pyraclostrobin in water matrices by HPLC/MS/MS	1889722, 1889723, 1889724
SM 2120 B / E31780	True Color measured at 450 nm	1889682, 1889685, 1889686, 1889687
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1889682, 1889685, 1889686, 1889687
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1889682, 1889685, 1889686, 1889687
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1889682, 1889685, 1889686, 1889687
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1889682, 1889685, 1889686, 1889687
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1889683, 1889688, 1889689, 1889690
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1889719, 1889720, 1889721
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1889719, 1889720, 1889721

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	04/18/2017			04/18/2017 15:15	Sima Feizi	1889682, 1889685, 1889686, 1889687
EPA 200.7 Rev. 4.4	04/18/2017	04/24/2017	Elliott D. Healy	04/25/2017	Martin Acosta	1889763
EPA 200.8 Rev. 5.4	04/18/2017	04/24/2017	Elliott D. Healy	04/27/2017	Betina Topolski	1889763
EPA 300.0 Rev. 2.1	04/18/2017			04/25/2017	Ping Hua	1889682, 1889685, 1889686, 1889687
EPA 350.1 Rev. 2.0	04/18/2017			04/19/2017	Julie Michelle Frank	1889683, 1889688, 1889689, 1889690
EPA 351.2 Rev. 2.0	04/18/2017	04/19/2017	Adrian Shelby	04/20/2017	Joseph Suarez	1889683, 1889688
	04/18/2017	04/20/2017	Adrian Shelby	04/21/2017	Joseph Suarez	1889689, 1889690
EPA 353.2 Rev. 2.0	04/18/2017			04/20/2017	Beverly Y. Sanders	1889683, 1889688, 1889689, 1889690
EPA 365.1 Rev. 2.0	04/18/2017	04/19/2017	Vijayalakshmi Reddy	04/20/2017	Lipi Saha	1889683, 1889688, 1889690
	04/18/2017	04/21/2017	Vijayalakshmi Reddy	04/24/2017	Lipi Saha	1889689
EPA 365.1 Rev. 2.0 dissolved	04/18/2017			04/18/2017 13:44	Lipi Saha	1889684
	04/18/2017			04/18/2017 13:45	Lipi Saha	1889691
	04/18/2017			04/18/2017 13:46	Lipi Saha	1889692, 1889693
EPA 8270D	04/18/2017	04/20/2017	Rasheda Ghaffari	04/28/2017	Marek Topolski	1889748, 1889750
	04/18/2017	04/21/2017	Fe-Val Siddell	04/27/2017	Marek Topolski	1889745, 1889746, 1889747
	04/18/2017	05/12/2017	John Kaba	05/23/2017	Marek Topolski	1889749
EPA 8276	04/18/2017	04/21/2017	Fe-Val Siddell	04/28/2017	Vandana T. Nagar	1889745, 1889746, 1889747
EPA 8321B	04/18/2017	04/21/2017	Juyoung Kim	04/21/2017	Juyoung Kim	1889719, 1889720, 1889721
	04/18/2017	04/22/2017	Fe-Val Siddell	04/26/2017	Juyoung Kim	1889722, 1889723, 1889724
SM 2120 B	04/18/2017			04/18/2017 16:02	Julia Storbeck	1889682, 1889685
	04/18/2017			04/18/2017 16:06	Julia Storbeck	1889686
	04/18/2017			04/18/2017 16:16	Julia Storbeck	1889687
SM 2320 B-97	04/18/2017			04/27/2017	Dale L. Simmons	1889682, 1889685, 1889686, 1889687
SM 2540 C-97	04/18/2017			04/19/2017	Yijie Li	1889682, 1889685, 1889686, 1889687
SM 2540 D-97	04/18/2017			04/19/2017	Yijie Li	1889682, 1889685, 1889686, 1889687
SM 4500 F-C-97	04/18/2017			05/03/2017	Dale L. Simmons	1889682, 1889685, 1889686, 1889687
SM 5310 B-00	04/18/2017			04/18/2017	Julie Michelle Frank	1889683, 1889688, 1889689, 1889690
USGS O-2060-01	04/18/2017	04/22/2017	Hoor Shaik	05/07/2017	Juyoung Kim	1889719, 1889720, 1889721