

Chemical Analysis Report

SO-DIST-2017-03-29-01

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

Event Description: **SMP: Lee County Streams**

Request ID: **RQ-2017-03-27-19**

Customer: **SO-DIST**

Project ID: **SMP**

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

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 20-APR-2017 13:35

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

Case Narrative

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

Results for the following analytical groups are included in this report: 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: Imperial River at Orr Rd in Bonita

Collection Date/Time: 03/28/2017 10:30

Field ID: G1SD032817-3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1884186	EPA 180.1 Rev. 2.0	Turbidity	0.80		NTU	P322464	
	EPA 300.0 Rev. 2.1	Chloride	29		mg Cl/L	P323117	
		Sulfate	12		mg SO4/L	P323120	
	SM 2120 B	Color (true)	81		PCU	P322434	
	SM 2320 B-97	Total Alkalinity	282		mg CaCO3/L	P322916	
	SM 2540 C-97	TDS	374		mg/L	P322830	
	SM 2540 D-97	TSS	3	I	mg/L	P323019	
	SM 4500 F-C-97	Fluoride	0.098	I	mg F/L	P322919	
1884189	EPA 350.1 Rev. 2.0	Ammonia-N	0.59		mg N/L	P322497	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P322460	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.039		mg N/L	P322569	
	EPA 365.1 Rev. 2.0	Total-P	0.052		mg P/L	P322668	
	SM 5310 B-00	Organic Carbon	15		mg C/L	P322511	
1884192	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.029		mg P/L	P322445	

Ref. Method and Comment:

SM 4500 F-C-97: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Oak Creek @ Oak Creek Preserve

Collection Date/Time: 03/28/2017 10:00

Field ID: G1SD032817-4

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1884187	EPA 180.1 Rev. 2.0	Turbidity	45		NTU	P322465	
	EPA 300.0 Rev. 2.1	Chloride	120		mg Cl/L	P323034	
		Sulfate	46		mg SO4/L	P323037	
	SM 2120 B	Color (true)	22	A	PCU	P322437	
	SM 2320 B-97	Total Alkalinity	334		mg CaCO3/L	P322916	
	SM 2540 C-97	TDS	572		mg/L	P322830	
	SM 2540 D-97	TSS	138		mg/L	P323019	
	SM 4500 F-C-97	Fluoride	0.12		mg F/L	P322919	
1884190	EPA 350.1 Rev. 2.0	Ammonia-N	0.048		mg N/L	P322497	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P322460	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.019		mg N/L	P322570	
	EPA 365.1 Rev. 2.0	Total-P	0.27		mg P/L	P322668	
	SM 5310 B-00	Organic Carbon	8.5		mg C/L	P322511	
1884193	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.13		mg P/L	P322445	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

SM 4500 F-C-97: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Field Blank

Collection Date/Time: 03/28/2017 08:45

Field ID: G1SDBLANK

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1884188	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P322464	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P323117	

Field ID: G1SDBLANK

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1884188	EPA 300.0 Rev. 2.1	Sulfate	0.20	U	mg SO4/L	P323120	
	SM 2120 B	Color (true)	2.5	U	PCU	P322434	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P323074	
	SM 2540 C-97	TDS	15	U	mg/L	P322829	
	SM 2540 D-97	TSS	2	U	mg/L	P323018	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P322919	
1884191	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P322497	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P322558	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P322569	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P322668	
	SM 5310 B-00	Organic Carbon	0.50	U	mg C/L	P322511	
1884194	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P322445	

Ref. Method and Comment:

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

SM 4500 F-C-97: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Hendry Creek @ Old Gladiolus Dr

Collection Date/Time: 03/28/2017 08:05

Field ID: G1SD032817-1

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1884195	EPA 180.1 Rev. 2.0	Turbidity	0.90		NTU	P322465	
	SM 2320 B-97	Total Alkalinity	243		mg CaCO3/L	P322917	
	SM 2540 D-97	TSS	3	U	mg/L	P323021	
	SM 4500 F-C-97	Fluoride	0.73		mg F/L	P323077	
1884197	EPA 350.1 Rev. 2.0	Ammonia-N	0.10		mg N/L	P322499	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.94		mg N/L	P322630	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.016		mg N/L	P322651	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P322639	
	SM 5310 B-00	Organic Carbon	11		mg C/L	P322584	
1884199	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.068		mg P/L	P322446	

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: Imperial River near US 41

Collection Date/Time: 03/28/2017 09:25

Field ID: G1SD032817-2

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1884196	EPA 180.1 Rev. 2.0	Turbidity	2.1		NTU	P322465	
	SM 2320 B-97	Total Alkalinity	213		mg CaCO3/L	P322917	
	SM 2540 D-97	TSS	4	I	mg/L	P323022	
	SM 4500 F-C-97	Fluoride	0.62		mg F/L	P323077	
1884198	EPA 350.1 Rev. 2.0	Ammonia-N	0.014		mg N/L	P322499	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.67		mg N/L	P322630	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.015		mg N/L	P322651	
	EPA 365.1 Rev. 2.0	Total-P	0.046		mg P/L	P322639	
	SM 5310 B-00	Organic Carbon	9.0		mg C/L	P322584	

Field ID: G1SD032817-2

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1884200	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.01	I	mg P/L	P322446	

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: Hendry Creek @ Old Gladiolus Dr

Collection Date/Time: 03/28/2017 08:05

Field ID: G1SD032817-1

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1884216	EPA 8321B	Sucralose**	0.17		ug/L	P322307	
	USGS O-2060-01	2,4-D	0.0048	I	ug/L	P322532	
		Diuron	0.0040	U	ug/L	P322532	MS
		Fenuron	0.0080	U	ug/L	P322532	
		Imidacloprid	0.0040	U	ug/L	P322532	
		Bentazon	0.12		ug/L	P322532	
		Linuron	0.0040	U	ug/L	P322532	
		Acetaminophen**	0.010	U	ug/L	P322532	
		MCP	0.0040	U	ug/L	P322532	
		Carbamazepine**	5.4E-04	I	ug/L	P322532	
		Triclopyr**	0.031	I	ug/L	P322532	
		Primidone**	0.0080	U	ug/L	P322532	
		Fluridone**	0.015		ug/L	P322532	MS
1884219	EPA 8321B	Pyraclostrobin**	0.0020	U	ug/L	P322599	
1884222	EPA 8270D	Aldrin	4.2	U	ng/L	P322448	
		Alpha-BHC	2.1	U	ng/L	P322448	
		Beta-BHC	4.2	U	ng/L	P322448	
		Delta-BHC	4.2	U	ng/L	P322448	
		Gamma-BHC	4.2	U	ng/L	P322448	
		Carbophenothion	4.2	UJ	ng/L	P322448	LCS, RPD
		Chlorothalonil	2.1	U	ng/L	P322448	RPD
		Cypermethrin	21	U	ng/L	P322448	
		DDD-p,p'	2.1	U	ng/L	P322448	
		DDE-p,p'	3.1	U	ng/L	P322448	
		DDT-p,p'	3.1	U	ng/L	P322448	
		Dieldrin	4.2	U	ng/L	P322448	
		Endosulfan I	4.2	U	ng/L	P322448	
		Endosulfan II	4.2	U	ng/L	P322448	
		Endosulfan Sulfate	2.1	U	ng/L	P322448	
		Endrin	2.1	U	ng/L	P322448	
		Endrin Aldehyde	2.1	U	ng/L	P322448	
		Heptachlor	1.6	U	ng/L	P322448	
		Heptachlor Epoxide	2.1	U	ng/L	P322448	
		Methoxychlor	4.2	U	ng/L	P322448	
		Mirex	2.1	U	ng/L	P322448	
		Permethrin	10	U	ng/L	P322448	
		Trifluralin	1.0	U	ng/L	P322448	

Field ID: G1SD032817-1

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1884222	EPA 8270D	Alpha-Chlordane	1.0	U	ng/L	P322448	
		Gamma-Chlordane	1.0	U	ng/L	P322448	
1884225		Endrin Ketone	2.1	U	ng/L	P322448	
		Dicofol	31	U	ng/L	P322448	
		Ametryn	2.5		ng/L	P322438	
		Atrazine	15		ng/L	P322438	
		Chlorpyrifos Ethyl	0.23	U	ng/L	P322438	
		Chlorpyrifos Methyl	0.093	U	ng/L	P322438	
		Disulfoton	0.30	U	ng/L	P322438	
		Ethion	0.14	U	ng/L	P322438	
		Ethoprop	0.093	U	ng/L	P322438	
		Hexazinone	4.1		ng/L	P322438	
		Malathion	0.33	U	ng/L	P322438	
		Metribuzin	0.19	U	ng/L	P322438	
		Mevinphos	0.47	U	ng/L	P322438	
		Norflurazon	0.47	U	ng/L	P322438	
		Phorate	0.23	U	ng/L	P322438	
		Prometryn	0.19	U	ng/L	P322438	
		Simazine	0.47	U	ng/L	P322438	
		Atrazine Desethyl	2.6	I	ng/L	P322438	
		Prometon	0.84	U	ng/L	P322438	
		Fipronil	0.23	U	ng/L	P322438	
		Molinate	0.28	U	ng/L	P322438	
		Pendimethalin	1.4	U	ng/L	P322438	
		Terbufos	0.093	U	ng/L	P322438	
		EPTC	1.2	U	ng/L	P322438	
		Terbuthylazine	0.40	U	ng/L	P322438	
		Bromacil	0.47	U	ng/L	P322438	
		Fipronil Sulfide	0.23	I	ng/L	P322438	
		Fipronil Sulfone	0.68		ng/L	P322438	
		Alachlor	0.23	U	ng/L	P322438	
		Azinphos Methyl	2.1	U	ng/L	P322438	
		Butylate	0.37	U	ng/L	P322438	
		Demeton	0.93	U	ng/L	P322438	
		Diazinon	0.12	U	ng/L	P322438	
		Fenamiphos	0.23	U	ng/L	P322438	
		Fonofos	0.19	U	ng/L	P322438	
		Metalaxyl	0.19	U	ng/L	P322438	
		Metolachlor	0.23	U	ng/L	P322438	
		Acetochlor	0.23	U	ng/L	P322438	
		Cyanazine	0.47	U	ng/L	P322438	
		Parathion Ethyl	0.23	U	ng/L	P322438	
		Parathion Methyl	0.23	U	ng/L	P322438	

Ref. Method and Comment:

USGS O-2060-01: MS accuracy for bentazon could not be assessed due to high concentration of parameter in the spiked sample.

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

Sample Location: Imperial River near US 41

Collection Date/Time: 03/28/2017 09:25

Field ID: G1SD032817-2

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1884217	EPA 8321B	Sucralose**	0.076		ug/L	P322307	
	USGS O-2060-01	2,4-D	0.0056	I	ug/L	P322532	
		Diuron	0.0040	U	ug/L	P322532	MS
		Fenuron	0.0080	U	ug/L	P322532	
		Imidacloprid	0.0040	U	ug/L	P322532	
		Bentazon	0.36		ug/L	P322532	
		Linuron	0.0040	U	ug/L	P322532	
		Acetaminophen**	0.010	U	ug/L	P322532	
		MCP	0.0040	U	ug/L	P322532	
		Carbamazepine**	4.0E-04	U	ug/L	P322532	
		Triclopyr**	0.010	U	ug/L	P322532	
		Primidone**	0.0080	U	ug/L	P322532	
		Fluridone**	0.0093		ug/L	P322532	MS
1884220	EPA 8321B	Pyraclostrobin**	0.0020	U	ug/L	P322599	
1884223	EPA 8270D	Aldrin	4.1	U	ng/L	P322448	
		Alpha-BHC	2.0	U	ng/L	P322448	
		Beta-BHC	4.1	U	ng/L	P322448	
		Delta-BHC	4.1	U	ng/L	P322448	
		Gamma-BHC	4.1	U	ng/L	P322448	
		Carbophenothion	4.1	UJ	ng/L	P322448	LCS, RPD
		Chlorothalonil	2.0	U	ng/L	P322448	RPD
		Cypermethrin	20	U	ng/L	P322448	
		DDD-p,p'	2.0	U	ng/L	P322448	
		DDE-p,p'	3.0	U	ng/L	P322448	
		DDT-p,p'	3.0	U	ng/L	P322448	
		Dieldrin	4.1	U	ng/L	P322448	
		Endosulfan I	4.1	U	ng/L	P322448	
		Endosulfan II	4.1	U	ng/L	P322448	
		Endosulfan Sulfate	2.0	U	ng/L	P322448	
		Endrin	2.0	U	ng/L	P322448	
		Endrin Aldehyde	2.0	U	ng/L	P322448	
		Heptachlor	1.5	U	ng/L	P322448	
		Heptachlor Epoxide	2.0	U	ng/L	P322448	
		Methoxychlor	4.1	U	ng/L	P322448	
		Mirex	2.0	U	ng/L	P322448	
		Permethrin	10	U	ng/L	P322448	
		Trifluralin	1.0	U	ng/L	P322448	
		Alpha-Chlordane	1.0	U	ng/L	P322448	
		Gamma-Chlordane	1.0	U	ng/L	P322448	
		Endrin Ketone	2.0	U	ng/L	P322448	
		Dicofol	30	U	ng/L	P322448	
1884226		Ametryn	0.69	I	ng/L	P322438	
		Atrazine	10		ng/L	P322438	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P322438	

Field ID: G1SD032817-2

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1884226	EPA 8270D	Chlorpyrifos Methyl	0.095	U	ng/L	P322438	
		Disulfoton	0.31	U	ng/L	P322438	
		Ethion	0.14	U	ng/L	P322438	
		Ethoprop	0.095	U	ng/L	P322438	
		Hexazinone	75		ng/L	P322438	
		Malathion	0.33	U	ng/L	P322438	
		Metribuzin	0.19	U	ng/L	P322438	
		Mevinphos	0.48	U	ng/L	P322438	
		Norflurazon	0.56	I	ng/L	P322438	
		Phorate	0.24	U	ng/L	P322438	
		Prometryn	0.19	U	ng/L	P322438	
		Simazine	0.50	I	ng/L	P322438	
		Atrazine Desethyl	1.4	U	ng/L	P322438	
		Prometon	0.86	U	ng/L	P322438	
		Fipronil	0.27	I	ng/L	P322438	
		Molinate	0.29	U	ng/L	P322438	
		Pendimethalin	1.4	U	ng/L	P322438	
		Terbufos	0.095	U	ng/L	P322438	
		EPTC	1.2	U	ng/L	P322438	
		Terbuthylazine	0.41	U	ng/L	P322438	
		Bromacil	0.48	U	ng/L	P322438	
		Fipronil Sulfide	0.14	U	ng/L	P322438	
		Fipronil Sulfone	0.22	I	ng/L	P322438	
		Alachlor	0.24	U	ng/L	P322438	
		Azinphos Methyl	2.1	U	ng/L	P322438	
		Butylate	0.38	U	ng/L	P322438	
		Demeton	0.95	U	ng/L	P322438	
		Diazinon	0.12	U	ng/L	P322438	
		Fenamiphos	0.24	U	ng/L	P322438	
		Fonofos	0.19	U	ng/L	P322438	
		Metalaxyl	0.19	U	ng/L	P322438	
		Metolachlor	0.29	I	ng/L	P322438	
		Acetochlor	0.24	U	ng/L	P322438	
		Cyanazine	0.48	U	ng/L	P322438	
		Parathion Ethyl	0.24	U	ng/L	P322438	
		Parathion Methyl	0.24	U	ng/L	P322438	

Ref. Method and Comment:

USGS O-2060-01: MS accuracy for bentazon could not be assessed due to high concentration of parameter in the spiked sample.

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

Sample Location: Imperial River at Orr Rd in Bonita

Collection Date/Time: 03/28/2017 10:30

Field ID: G1SD032817-3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1884218	EPA 8321B	Sucralose**	0.012	I	ug/L	P322307	
	USGS O-2060-01	2,4-D	0.0040	U	ug/L	P322532	

Field ID: G1SD032817-3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1884218	USGS O-2060-01	Diuron	0.0040	UJ	ug/L	P322532	MS
		Fenuron	0.0080	U	ug/L	P322532	
		Imidacloprid	0.0040	U	ug/L	P322532	
		Bentazon	0.69		ug/L	P322532	
		Linuron	0.0040	U	ug/L	P322532	
		Acetaminophen**	0.010	U	ug/L	P322532	
		MCP	0.0040	U	ug/L	P322532	
		Carbamazepine**	4.0E-04	U	ug/L	P322532	
		Triclopyr**	0.010	U	ug/L	P322532	
		Primidone**	0.0080	U	ug/L	P322532	
		Fluridone**	0.012	J	ug/L	P322532	MS
		Pyraclostrobin**	0.0020	U	ug/L	P322599	
1884221	EPA 8321B						
1884224	EPA 8270D	Aldrin	4.2	U	ng/L	P322674	
		Alpha-BHC	2.1	U	ng/L	P322674	
		Beta-BHC	4.2	U	ng/L	P322674	
		Delta-BHC	4.2	U	ng/L	P322674	
		Gamma-BHC	4.2	U	ng/L	P322674	
		Carbophenothion	4.2	U	ng/L	P322674	
		Chlorothalonil	2.1	U	ng/L	P322674	
		Cypermethrin	21	U	ng/L	P322674	
		DDD-p,p'	2.1	U	ng/L	P322674	
		DDE-p,p'	3.1	U	ng/L	P322674	
		DDT-p,p'	3.1	U	ng/L	P322674	
		Dieldrin	4.2	U	ng/L	P322674	
		Endosulfan I	4.2	U	ng/L	P322674	
		Endosulfan II	4.2	U	ng/L	P322674	
		Endosulfan Sulfate	2.1	U	ng/L	P322674	
		Endrin	2.1	U	ng/L	P322674	
		Endrin Aldehyde	2.1	U	ng/L	P322674	
		Heptachlor	1.6	U	ng/L	P322674	
		Heptachlor Epoxide	2.1	U	ng/L	P322674	
		Methoxychlor	4.2	U	ng/L	P322674	
		Mirex	2.1	U	ng/L	P322674	MS
		Permethrin	10	U	ng/L	P322674	
		Trifluralin	1.0	U	ng/L	P322674	
		Alpha-Chlordane	1.0	U	ng/L	P322674	
		Gamma-Chlordane	1.0	U	ng/L	P322674	
		Endrin Ketone	2.1	U	ng/L	P322674	
		Dicofol	31	U	ng/L	P322674	
		Ametryn	0.31	U	ng/L	P322438	
		Atrazine	1.6		ng/L	P322438	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P322438	
		Chlorpyrifos Methyl	0.095	U	ng/L	P322438	
		Disulfoton	0.31	U	ng/L	P322438	
		Ethion	0.14	U	ng/L	P322438	
1884227							

Field ID: G1SD032817-3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1884227	EPA 8270D	Ethoprop	0.095	U	ng/L	P322438	
		Hexazinone	260		ng/L	P322438	
		Malathion	0.33	U	ng/L	P322438	
		Metribuzin	0.19	U	ng/L	P322438	
		Mevinphos	0.47	U	ng/L	P322438	
		Norflurazon	0.95	I	ng/L	P322438	
		Phorate	0.24	U	ng/L	P322438	
		Prometryn	0.19	U	ng/L	P322438	
		Simazine	0.47	U	ng/L	P322438	
		Atrazine Desethyl	1.4	U	ng/L	P322438	
		Prometon	0.85	U	ng/L	P322438	
		Fipronil	0.24	U	ng/L	P322438	
		Molinate	0.28	U	ng/L	P322438	
		Pendimethalin	1.4	U	ng/L	P322438	
		Terbufos	0.095	U	ng/L	P322438	
		EPTC	1.2	U	ng/L	P322438	
		Terbuthylazine	0.40	U	ng/L	P322438	
		Bromacil	0.47	U	ng/L	P322438	
		Fipronil Sulfide	0.15	I	ng/L	P322438	
		Fipronil Sulfone	0.35	I	ng/L	P322438	
		Alachlor	0.24	U	ng/L	P322438	
		Azinphos Methyl	2.1	U	ng/L	P322438	
		Butylate	0.38	U	ng/L	P322438	
		Demeton	0.95	U	ng/L	P322438	
		Diazinon	0.12	U	ng/L	P322438	
		Fenamiphos	0.24	U	ng/L	P322438	
		Fonofos	0.19	U	ng/L	P322438	
		Metalaxyl	0.19	U	ng/L	P322438	
		Metolachlor	2.3		ng/L	P322438	
		Acetochlor	0.24	U	ng/L	P322438	
		Cyanazine	0.47	U	ng/L	P322438	
		Parathion Ethyl	0.24	U	ng/L	P322438	
		Parathion Methyl	0.24	U	ng/L	P322438	

Ref. Method and Comment:

USGS O-2060-01: MS accuracy for bentazon could not be assessed due to high concentration of parameter in the spiked sample.

USGS O-2060-01: Refer to the narrative for an explanation of QC Codes.

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P322464

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P322465

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P323034

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P323037

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P323117

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P323120

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P322497

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P322499

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P322460

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P322558

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P322630

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P322569

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P322570

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P322651

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P322639

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P322668

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P322445

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P322446

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

Reference Method: EPA 8270D
Batch ID: P322438

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: P322438

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	1.0	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: P322448

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: P322448

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: P322674

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
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 8321B

Batch ID: P322307

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P322307

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B
Batch ID: P322599

Component	Result	Code	Units
Pyraclostrobin	0.0020	U	ug/L

Reference Method: SM 2120 B
Batch ID: P322434

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P322437

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P322916

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

Reference Method: SM 2320 B-97
Batch ID: P322917

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

Reference Method: SM 2320 B-97
Batch ID: P323074

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

Reference Method: SM 2540 C-97
Batch ID: P322829

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P322830

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report Method Blank Results

Reference Method: SM 2540 D-97
Batch ID: P323018

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P323019

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P323021

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P323022

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P322919

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P323077

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P322511

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

Reference Method: SM 5310 B-00
Batch ID: P322584

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

Reference Method: USGS O-2060-01
Batch ID: P322532

Component	Result	Code	Units
2,4-D	0.0040	U	ug/L
Acetaminophen	0.010	U	ug/L
Bentazon	0.0040	U	ug/L
Carbamazepine	4.0E-04	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: USGS O-2060-01
Batch ID: P322532

Component	Result	Code	Units
Diuron	0.0040	U	ug/L
Fenuron	0.0080	U	ug/L
Fluridone	4.0E-04	U	ug/L
Imidacloprid	0.0040	U	ug/L
Linuron	0.0040	U	ug/L
MCPP	0.0040	U	ug/L
Primidone	0.0080	U	ug/L
Triclopyr	0.010	U	ug/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P323034

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P323037

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P323117

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P323120

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	94.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P322497

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P322499

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P322460

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P322558

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P322630

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: P322569

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P322570

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P322651

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P322639

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P322668

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P322445

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P322446

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

Reference Method: EPA 8270D
 Batch ID: P322438

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	84.6	90.7	P/P	78 - 118
Alachlor	84.7	90.3	P/P	77 - 119
Ametryn	95.9	115	P/P	61 - 136
Atrazine	92.7	93.1	P/P	73 - 120
Atrazine Desethyl	61.5	65.8	P/P	16 - 122
Azinphos Methyl	91.1	106	P/P	69 - 186
Bromacil	81.4	77.9	P/P	40 - 125
Butylate	54.9	56.5	P/P	32 - 87.0
Chlorpyrifos Ethyl	84.3	83.7	P/P	53 - 110
Chlorpyrifos Methyl	77.6	81.9	P/P	31 - 119
Cyanazine	91.8	99.5	P/P	36 - 224
Demeton	84.6	93.5	P/P	39 - 122
Diazinon	82.4	89.0	P/P	75 - 119
Disulfoton	81.1	91.2	P/P	42 - 139
EPTC	57.9	52.7	P/P	33 - 96.0
Ethion	90.0	88.8	P/P	63 - 127
Ethoprop	74.8	79.3	P/P	65 - 107
Fenamiphos	101	97.9	P/P	64 - 137
Fipronil	94.1	96.6	P/P	60 - 126
Fipronil Sulfide	89.9	86.2	P/P	58 - 124
Fipronil Sulfone	89.3	82.4	P/P	57 - 126
Fonofos	72.7	76.7	P/P	65 - 111
Hexazinone	90.8	86.5	P/P	46 - 151
Malathion	88.7	93.0	P/P	68 - 132
Metaxyl	82.2	92.7	P/P	51 - 132
Metolachlor	90.0	92.6	P/P	78 - 119
Metribuzin	92.5	95.8	P/P	64 - 138
Mevinphos	72.9	75.2	P/P	34 - 128
Molinate	62.2	59.0	P/P	44 - 101
Norflurazon	92.5	88.3	P/P	63 - 129
Parathion Ethyl	87.7	86.3	P/P	80 - 109
Parathion Methyl	81.2	87.6	P/P	74 - 125
Pendimethalin	88.0	88.0	P/P	48 - 134
Phorate	76.1	84.4	P/P	52 - 119
Prometon	90.2	100	P/P	69 - 124
Prometryn	89.6	102	P/P	66 - 124
Simazine	96.6	94.9	P/P	61 - 134
Terbufos	71.5	76.8	P/P	58 - 115
Terbutylazine	91.4	86.1	P/P	77 - 113

Reference Method: EPA 8270D
 Batch ID: P322448

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	47.3	45.6	P/P	30 - 83.0
Alpha-BHC	71.0	76.6	P/P	62 - 119

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P322448

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Alpha-Chlordane	66.4	69.0	P/P	56 - 119
Beta-BHC	81.8	92.1	P/P	54 - 141
Carbophenothion	25.2	45.2	F/P	33 - 147
Chlorothalonil	79.5	103	P/P	25 - 175
Cypermethrin	75.5	75.0	P/P	50 - 155
DDD-p,p'	73.6	82.8	P/P	56 - 135
DDE-p,p'	71.1	81.4	P/P	48 - 120
DDT-p,p'	84.0	91.5	P/P	51 - 121
Delta-BHC	88.4	102	P/P	65 - 163
Dicofol	78.0	70.4	P/P	15 - 112
Dieldrin	69.6	73.6	P/P	59 - 134
Endosulfan I	74.0	74.0	P/P	65 - 142
Endosulfan II	78.7	85.1	P/P	65 - 154
Endosulfan Sulfate	73.3	84.1	P/P	65 - 136
Endrin	64.6	61.0	P/P	53 - 156
Endrin Aldehyde	71.3	72.8	P/P	47 - 156
Endrin Ketone	98.6	101	P/P	70 - 124
Gamma-BHC	71.7	79.1	P/P	64 - 142
Gamma-Chlordane	66.4	69.0	P/P	55 - 114
Heptachlor	61.9	63.5	P/P	42 - 105
Heptachlor Epoxide	69.8	71.1	P/P	67 - 120
Methoxychlor	79.4	79.7	P/P	63 - 134
Mirex	56.1	61.8	P/P	40 - 90.0
Permethrin	72.4	70.4	P/P	36 - 144
Trifluralin	73.3	72.7	P/P	40 - 170

Reference Method: EPA 8270D
Batch ID: P322674

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	46.9	62.0	P/P	30 - 83.0
Alpha-BHC	86.3	85.9	P/P	62 - 119
Alpha-Chlordane	92.8	94.9	P/P	56 - 119
Beta-BHC	88.8	83.0	P/P	54 - 141
Carbophenothion	96.6	90.2	P/P	33 - 147
Chlorothalonil	118	102	P/P	25 - 175
Cypermethrin	89.8	89.2	P/P	50 - 155
DDD-p,p'	92.7	91.7	P/P	56 - 135
DDE-p,p'	98.8	99.2	P/P	48 - 120
DDT-p,p'	85.2	87.9	P/P	51 - 121
Delta-BHC	105	97.3	P/P	65 - 163
Dicofol	82.4	89.3	P/P	15 - 112
Dieldrin	93.9	93.9	P/P	59 - 134
Endosulfan I	97.1	97.7	P/P	65 - 142
Endosulfan II	93.2	91.0	P/P	65 - 154
Endosulfan Sulfate	85.8	81.3	P/P	65 - 136
Endrin	103	104	P/P	53 - 156
Endrin Aldehyde	93.5	92.2	P/P	47 - 156
Endrin Ketone	78.8	76.9	P/P	70 - 124
Gamma-BHC	91.1	87.1	P/P	64 - 142
Gamma-Chlordane	92.3	92.5	P/P	55 - 114
Heptachlor	84.5	84.4	P/P	42 - 105

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P322674

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Heptachlor Epoxide	92.7	93.0	P/P	67 - 120
Methoxychlor	90.9	81.1	P/P	63 - 134
Mirex	81.4	80.9	P/P	40 - 90.0
Permethrin	83.1	83.2	P/P	36 - 144
Trifluralin	116	108	P/P	40 - 170

Reference Method: EPA 8321B
Batch ID: P322307

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	88.9		P	40 - 140

Reference Method: EPA 8321B
Batch ID: P322599

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pyraclostrobin	112		P	40 - 140

Reference Method: SM 2320 B-97
Batch ID: P322916

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	95 - 108

Reference Method: SM 2320 B-97
Batch ID: P322917

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	95 - 108

Reference Method: SM 2320 B-97
Batch ID: P323074

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	95 - 108

Reference Method: SM 4500 F-C-97
Batch ID: P322919

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	94.5		P	92 - 103

Reference Method: SM 4500 F-C-97
Batch ID: P323077

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.4		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P322511

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

Reference Method: SM 5310 B-00
 Batch ID: P322511

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	102		P	85 - 115

Reference Method: SM 5310 B-00
 Batch ID: P322584

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

Reference Method: USGS O-2060-01
 Batch ID: P322532

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	91.2		P	40 - 140
Acetaminophen	86.4		P	40 - 140
Bentazon	110		P	40 - 140
Carbamazepine	114		P	40 - 140
Diuron	76.8		P	40 - 140
Fenuron	97.6		P	40 - 140
Fluridone	85.6		P	40 - 140
Imidacloprid	88.4		P	40 - 160
Linuron	132		P	40 - 140
MCPP	85.6		P	40 - 140
Primidone	97.2		P	40 - 140
Triclopyr	88.0		P	40 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P323034

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1884764	Chloride	106		P	90 - 110
1884769	Chloride	105		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P323037

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1884764	Sulfate	104		P	90 - 110
1884769	Sulfate	104		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P323117

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1883912	Chloride	98.7		P	90 - 110
1884041	Chloride	98.2		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P323120

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1883912	Sulfate	94.3		P	90 - 110
1884041	Sulfate	94.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P322497

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1883761	Ammonia-N	103	102	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P322499

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1884237	Ammonia-N	103	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P322460

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1884166	Kjeldahl Nitrogen	101	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P322558

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1884262	Kjeldahl Nitrogen	98.3	112	P/F	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P322630

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1884197	Kjeldahl Nitrogen	93.1	94.9	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P322569

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1884189	NO2NO3-N	97.2	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P322570

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1884261	NO2NO3-N	96.2		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P322651

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1884125	NO2NO3-N	101	101	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P322639

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1884125	Total-P	101	96.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P322668

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1884260	Total-P	104	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P322445

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1884010	O-Phosphate-P	96.9	98.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P322446

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1884122	O-Phosphate-P	98.6	102	P/P	90 - 110

Reference Method: EPA 8270D
 Batch ID: P322438

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1883507	Acetochlor	96.6	86.8	P/P	74 - 123
1883507	Alachlor	100	90.5	P/P	73 - 124
1883507	Ametryn	141	124	P/P	56 - 149
1883507	Atrazine	108	92.4	P/P	73 - 124
1883507	Atrazine Desethyl	53.2	55.4	P/P	12 - 103
1883507	Azinphos Methyl	104	99.2	P/P	60 - 202
1883507	Bromacil	108	85.3	P/P	42 - 133
1883507	Butylate	44.1	38.2	P/P	10 - 85.0
1883507	Chlorpyrifos Ethyl	83.4	77.8	P/P	53 - 113
1883507	Chlorpyrifos Methyl	87.1	77.7	P/P	40 - 115
1883507	Cyanazine	106	98.9	P/P	22 - 210
1883507	Demeton	116	112	P/P	17 - 149
1883507	Diazinon	102	90.8	P/P	72 - 124
1883507	Disulfoton	88.2	84.1	P/P	43 - 139
1883507	EPTC	47.2	43.3	P/P	10 - 86.0
1883507	Ethion	86.2	76.3	P/P	65 - 131
1883507	Ethoprop	99.9	92.4	P/P	59 - 110
1883507	Fenamiphos	85.7	78.8	P/P	57 - 138
1883507	Fipronil	105	93.9	P/P	40 - 130
1883507	Fipronil Sulfide	81.8	75.4	P/P	36 - 128
1883507	Fipronil Sulfone	80.7	68.5	P/P	16 - 145
1883507	Fonofos	90.7	87.0	P/P	60 - 112
1883507	Hexazinone	91.3	82.0	P/P	69 - 142
1883507	Malathion	96.4	86.0	P/P	68 - 132
1883507	Metalaxyl	91.7	83.0	P/P	66 - 118
1883507	Metolachlor	99.2	89.5	P/P	71 - 124
1883507	Metribuzin	107	101	P/P	61 - 140
1883507	Mevinphos	102	106	P/P	38 - 130

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P322438

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1883507	Molinate	61.4	57.3	P/P	23 - 99.0
1883507	Norflurazon	84.1	77.0	P/P	39 - 139
1883507	Parathion Ethyl	96.7	86.3	P/P	75 - 111
1883507	Parathion Methyl	102	92.8	P/P	64 - 130
1883507	Pendimethalin	102	91.9	P/P	26 - 173
1883507	Phorate	104	101	P/P	43 - 127
1883507	Prometon	114	99.9	P/P	50 - 144
1883507	Prometryn	91.2	89.6	P/P	69 - 126
1883507	Simazine	90.8	91.2	P/P	51 - 152
1883507	Terbufos	93.3	86.0	P/P	54 - 125
1883507	Terbutylazine	95.9	85.6	P/P	76 - 113

Reference Method: EPA 8270D
Batch ID: P322448

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1883804	Aldrin	55.8	50.5	P/P	30 - 83.0
1883804	Alpha-BHC	79.4	72.0	P/P	62 - 119
1883804	Alpha-Chlordane	74.2	69.2	P/P	56 - 119
1883804	Beta-BHC	87.8	83.4	P/P	54 - 141
1883804	Carbophenothion	84.6	79.0	P/P	33 - 147
1883804	Chlorothalonil	61.6	84.7	P/P	25 - 175
1883804	Cypermethrin	71.3	74.1	P/P	50 - 155
1883804	DDD-p,p'	84.0	80.0	P/P	56 - 135
1883804	DDE-p,p'	80.3	78.6	P/P	48 - 120
1883804	DDT-p,p'	83.2	81.3	P/P	51 - 121
1883804	Delta-BHC	105	98.7	P/P	65 - 163
1883804	Dicofol	76.5	57.6	P/P	15 - 112
1883804	Dieldrin	90.8	80.0	P/P	59 - 134
1883804	Endosulfan I	79.8	76.0	P/P	65 - 142
1883804	Endosulfan II	91.9	84.8	P/P	65 - 154
1883804	Endosulfan Sulfate	73.7	71.7	P/P	65 - 136
1883804	Endrin	68.7	65.8	P/P	53 - 156
1883804	Endrin Aldehyde	68.7	72.0	P/P	47 - 156
1883804	Endrin Ketone	106	99.9	P/P	70 - 124
1883804	Gamma-BHC	87.1	84.2	P/P	64 - 142
1883804	Gamma-Chlordane	74.2	69.2	P/P	55 - 114
1883804	Heptachlor	65.2	61.0	P/P	42 - 105
1883804	Heptachlor Epoxide	76.9	73.4	P/P	67 - 120
1883804	Methoxychlor	81.0	75.2	P/P	63 - 134
1883804	Mirex	64.4	61.6	P/P	40 - 90.0
1883804	Permethrin	71.9	70.5	P/P	36 - 144
1883804	Trifluralin	84.8	78.8	P/P	40 - 170

Reference Method: EPA 8270D
Batch ID: P322674

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1885130	Aldrin	71.7	72.5	P/P	30 - 83.0
1885130	Alpha-BHC	88.2	84.9	P/P	62 - 119
1885130	Alpha-Chlordane	98.7	97.0	P/P	56 - 119
1885130	Beta-BHC	91.9	105	P/P	54 - 141

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P322674

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1885130	Carbophenothion	122	116	P/P	33 - 147
1885130	Chlorothalonil	60.9	80.9	P/P	25 - 175
1885130	Cypermethrin	101	89.9	P/P	50 - 155
1885130	DDD-p,p'	93.9	86.8	P/P	56 - 135
1885130	DDE-p,p'	103	99.8	P/P	48 - 120
1885130	DDT-p,p'	92.9	84.0	P/P	51 - 121
1885130	Delta-BHC	133	109	P/P	65 - 163
1885130	Dicofol	89.1	97.1	P/P	15 - 112
1885130	Dieldrin	98.8	97.5	P/P	59 - 134
1885130	Endosulfan I	111	122	P/P	65 - 142
1885130	Endosulfan II	108	105	P/P	65 - 154
1885130	Endosulfan Sulfate	95.6	87.7	P/P	65 - 136
1885130	Endrin	103	101	P/P	53 - 156
1885130	Endrin Aldehyde	56.3	58.9	P/P	47 - 156
1885130	Endrin Ketone	89.1	84.8	P/P	70 - 124
1885130	Gamma-BHC	112	116	P/P	64 - 142
1885130	Gamma-Chlordane	98.7	95.5	P/P	55 - 114
1885130	Heptachlor	81.8	80.5	P/P	42 - 105
1885130	Heptachlor Epoxide	98.6	96.2	P/P	67 - 120
1885130	Methoxychlor	96.4	85.2	P/P	63 - 134
1885130	Mirex	91.2	83.7	F/P	40 - 90.0
1885130	Permethrin	99.1	91.8	P/P	36 - 144
1885130	Trifluralin	140	136	P/P	40 - 170

Reference Method: EPA 8321B
Batch ID: P322307

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1883895	Sucralose	113	115	P/P	40 - 140

Reference Method: EPA 8321B
Batch ID: P322599

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1884219	Pyraclostrobin	84.4	90.4	P/P	40 - 140

Reference Method: SM 4500 F-C-97
Batch ID: P323077

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1884088	Fluoride	92.1	92.8	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P322511

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1884008	Organic Carbon	103		P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P322584

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

Reference Method: SM 5310 B-00
 Batch ID: P322584

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1884197	Organic Carbon	90.2	90.7	P/P	85 - 115

Reference Method: USGS O-2060-01
 Batch ID: P322532

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1884218	2,4-D	134	127	P/P	40 - 140
1884218	Acetaminophen	59.6	58.8	P/P	40 - 140
1884218	Carbamazepine	59.6	60.8	P/P	40 - 140
1884218	Diuron	33.2	39.6	F/F	40 - 140
1884218	Fenuron	47.6	46.8	P/P	40 - 140
1884218	Fluridone	32.0	32.4	F/F	40 - 140
1884218	Imidacloprid	102	111	P/P	40 - 160
1884218	Linuron	62.4	78.8	P/P	40 - 140
1884218	MCP	131	120	P/P	40 - 140
1884218	Primidone	90.0	76.0	P/P	40 - 140
1884218	Triclopyr	137	120	P/P	40 - 140

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P322464

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1884130	Turbidity	2.70	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P322465

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1884259	Turbidity	3.36	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P323034

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1884764	Chloride	0.740	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P323117

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1884041	Chloride	0.279	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P323120

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1884041	Sulfate	0.174	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P322497

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1883761	Ammonia-N	1.02	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P322499

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1884237	Ammonia-N	0.483	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P322460

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1884166	Kjeldahl Nitrogen	2.61	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P322558

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1884262	Kjeldahl Nitrogen	8.26	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P322630

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1884197	Kjeldahl Nitrogen	1.40	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P322569

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1884189	NO2NO3-N	2.54	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P322570

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1884261	NO2NO3-N	0.393	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P322651

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1884125	NO2NO3-N	0.445	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P322639

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1884125	Total-P	4.26	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P322668

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1884260	Total-P	1.50	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P322445

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1884010	O-Phosphate-P	1.18	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P322446

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1884122	O-Phosphate-P	2.34	Spike	P	0 - 20

Reference Method: EPA 8270D
 Batch ID: P322438

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1883507	Acetochlor	10.7	Spike	P	0 - 30
1883507	Alachlor	10.2	Spike	P	0 - 30
1883507	Ametryn	13.3	Spike	P	0 - 30
1883507	Atrazine	3.83	Spike	P	0 - 30
1883507	Atrazine Desethyl	3.46	Spike	P	0 - 30
1883507	Azinphos Methyl	4.82	Spike	P	0 - 30
1883507	Bromacil	23.2	Spike	P	0 - 30
1883507	Butylate	14.4	Spike	P	0 - 30
1883507	Chlorpyrifos Ethyl	6.97	Spike	P	0 - 30
1883507	Chlorpyrifos Methyl	11.4	Spike	P	0 - 30
1883507	Cyanazine	7.00	Spike	P	0 - 30
1883507	Demeton	2.81	Spike	P	0 - 30
1883507	Diazinon	11.5	Spike	P	0 - 30
1883507	Disulfoton	4.72	Spike	P	0 - 30
1883507	EPTC	8.56	Spike	P	0 - 30
1883507	Ethion	12.2	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P322438

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1883507	Ethoprop	7.85	Spike	P	0 - 30
1883507	Fenamiphos	8.43	Spike	P	0 - 30
1883507	Fipronil	11.1	Spike	P	0 - 30
1883507	Fipronil Sulfide	8.07	Spike	P	0 - 30
1883507	Fipronil Sulfone	12.3	Spike	P	0 - 30
1883507	Fonofos	4.17	Spike	P	0 - 30
1883507	Hexazinone	10.8	Spike	P	0 - 30
1883507	Malathion	11.4	Spike	P	0 - 30
1883507	Metalaxyl	9.97	Spike	P	0 - 30
1883507	Metolachlor	9.75	Spike	P	0 - 30
1883507	Metribuzin	5.43	Spike	P	0 - 30
1883507	Mevinphos	3.24	Spike	P	0 - 30
1883507	Molinate	6.92	Spike	P	0 - 30
1883507	Norflurazon	8.86	Spike	P	0 - 30
1883507	Parathion Ethyl	11.4	Spike	P	0 - 30
1883507	Parathion Methyl	9.73	Spike	P	0 - 30
1883507	Pendimethalin	10.3	Spike	P	0 - 30
1883507	Phorate	2.70	Spike	P	0 - 30
1883507	Prometon	13.0	Spike	P	0 - 30
1883507	Prometryn	1.77	Spike	P	0 - 30
1883507	Simazine	0.406	Spike	P	0 - 30
1883507	Terbufos	8.04	Spike	P	0 - 30
1883507	Terbuthylazine	11.3	Spike	P	0 - 30
LFB	Acetochlor	6.97	LCS	P	0 - 30
LFB	Alachlor	6.34	LCS	P	0 - 30
LFB	Ametryn	18.3	LCS	P	0 - 30
LFB	Atrazine	0.361	LCS	P	0 - 30
LFB	Atrazine Desethyl	6.75	LCS	P	0 - 30
LFB	Azinphos Methyl	14.8	LCS	P	0 - 30
LFB	Bromacil	4.40	LCS	P	0 - 30
LFB	Butylate	2.94	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	0.691	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	5.41	LCS	P	0 - 30
LFB	Cyanazine	8.14	LCS	P	0 - 30
LFB	Demeton	10.0	LCS	P	0 - 30
LFB	Diazinon	7.64	LCS	P	0 - 30
LFB	Disulfoton	11.7	LCS	P	0 - 30
LFB	EPTC	9.34	LCS	P	0 - 30
LFB	Ethion	1.40	LCS	P	0 - 30
LFB	Ethoprop	5.83	LCS	P	0 - 30
LFB	Fenamiphos	3.03	LCS	P	0 - 30
LFB	Fipronil	2.68	LCS	P	0 - 30
LFB	Fipronil Sulfide	4.28	LCS	P	0 - 30
LFB	Fipronil Sulfone	8.01	LCS	P	0 - 30
LFB	Fonofos	5.38	LCS	P	0 - 30
LFB	Hexazinone	4.85	LCS	P	0 - 30
LFB	Malathion	4.72	LCS	P	0 - 30
LFB	Metalaxyl	11.9	LCS	P	0 - 30
LFB	Metolachlor	2.76	LCS	P	0 - 30
LFB	Metribuzin	3.48	LCS	P	0 - 30
LFB	Mevinphos	3.11	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P322438

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Molinate	5.33	LCS	P	0 - 30
LFB	Norflurazon	4.63	LCS	P	0 - 30
LFB	Parathion Ethyl	1.70	LCS	P	0 - 30
LFB	Parathion Methyl	7.62	LCS	P	0 - 30
LFB	Pendimethalin	0.0625	LCS	P	0 - 30
LFB	Phorate	10.3	LCS	P	0 - 30
LFB	Prometon	10.5	LCS	P	0 - 30
LFB	Prometryn	12.8	LCS	P	0 - 30
LFB	Simazine	1.71	LCS	P	0 - 30
LFB	Terbufos	7.16	LCS	P	0 - 30
LFB	Terbuthylazine	6.03	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P322448

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1883804	Aldrin	9.92	Spike	P	0 - 30
1883804	Alpha-BHC	9.84	Spike	P	0 - 30
1883804	Alpha-Chlordane	6.95	Spike	P	0 - 30
1883804	Beta-BHC	5.08	Spike	P	0 - 30
1883804	Carbophenothion	6.91	Spike	P	0 - 30
1883804	Chlorothalonil	31.6	Spike	F	0 - 30
1883804	Cypermethrin	3.80	Spike	P	0 - 30
1883804	DDD-p,p'	4.86	Spike	P	0 - 30
1883804	DDE-p,p'	2.16	Spike	P	0 - 30
1883804	DDT-p,p'	2.30	Spike	P	0 - 30
1883804	Delta-BHC	5.84	Spike	P	0 - 30
1883804	Dicofol	28.1	Spike	P	0 - 30
1883804	Dieldrin	8.65	Spike	P	0 - 30
1883804	Endosulfan I	4.94	Spike	P	0 - 30
1883804	Endosulfan II	8.03	Spike	P	0 - 30
1883804	Endosulfan Sulfate	2.76	Spike	P	0 - 30
1883804	Endrin	4.38	Spike	P	0 - 30
1883804	Endrin Aldehyde	4.72	Spike	P	0 - 30
1883804	Endrin Ketone	6.19	Spike	P	0 - 30
1883804	Gamma-BHC	3.42	Spike	P	0 - 30
1883804	Gamma-Chlordane	6.95	Spike	P	0 - 30
1883804	Heptachlor	6.76	Spike	P	0 - 30
1883804	Heptachlor Epoxide	4.65	Spike	P	0 - 30
1883804	Methoxychlor	7.50	Spike	P	0 - 30
1883804	Mirex	4.42	Spike	P	0 - 30
1883804	Permethrin	1.91	Spike	P	0 - 30
1883804	Trifluralin	7.34	Spike	P	0 - 30
LFB	Aldrin	3.80	LCS	P	0 - 30
LFB	Alpha-BHC	7.58	LCS	P	0 - 30
LFB	Alpha-Chlordane	3.80	LCS	P	0 - 30
LFB	Beta-BHC	11.8	LCS	P	0 - 30
LFB	Carbophenothion	57.0	LCS	F	0 - 30
LFB	Chlorothalonil	25.5	LCS	P	0 - 30
LFB	Cypermethrin	0.636	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P322448

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	DDD-p,p'	11.8	LCS	P	0 - 30
LFB	DDE-p,p'	13.5	LCS	P	0 - 30
LFB	DDT-p,p'	8.53	LCS	P	0 - 30
LFB	Delta-BHC	14.2	LCS	P	0 - 30
LFB	Dicofol	10.2	LCS	P	0 - 30
LFB	Dieldrin	5.69	LCS	P	0 - 30
LFB	Endosulfan I	0.116	LCS	P	0 - 30
LFB	Endosulfan II	7.92	LCS	P	0 - 30
LFB	Endosulfan Sulfate	13.8	LCS	P	0 - 30
LFB	Endrin	5.85	LCS	P	0 - 30
LFB	Endrin Aldehyde	1.99	LCS	P	0 - 30
LFB	Endrin Ketone	2.32	LCS	P	0 - 30
LFB	Gamma-BHC	9.75	LCS	P	0 - 30
LFB	Gamma-Chlordane	3.80	LCS	P	0 - 30
LFB	Heptachlor	2.43	LCS	P	0 - 30
LFB	Heptachlor Epoxide	1.93	LCS	P	0 - 30
LFB	Methoxychlor	0.372	LCS	P	0 - 30
LFB	Mirex	9.62	LCS	P	0 - 30
LFB	Permethrin	2.85	LCS	P	0 - 30
LFB	Trifluralin	0.756	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P322674

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1885130	Aldrin	1.13	Spike	P	0 - 30
1885130	Alpha-BHC	3.78	Spike	P	0 - 30
1885130	Alpha-Chlordane	1.77	Spike	P	0 - 30
1885130	Beta-BHC	13.4	Spike	P	0 - 30
1885130	Carbophenothion	5.22	Spike	P	0 - 30
1885130	Chlorothalonil	28.1	Spike	P	0 - 30
1885130	Cypermethrin	11.7	Spike	P	0 - 30
1885130	DDD-p,p'	7.87	Spike	P	0 - 30
1885130	DDE-p,p'	3.48	Spike	P	0 - 30
1885130	DDT-p,p'	10.0	Spike	P	0 - 30
1885130	Delta-BHC	20.0	Spike	P	0 - 30
1885130	Dicofol	8.60	Spike	P	0 - 30
1885130	Dieldrin	1.39	Spike	P	0 - 30
1885130	Endosulfan I	9.30	Spike	P	0 - 30
1885130	Endosulfan II	2.83	Spike	P	0 - 30
1885130	Endosulfan Sulfate	8.63	Spike	P	0 - 30
1885130	Endrin	1.10	Spike	P	0 - 30
1885130	Endrin Aldehyde	4.64	Spike	P	0 - 30
1885130	Endrin Ketone	5.01	Spike	P	0 - 30
1885130	Gamma-BHC	4.17	Spike	P	0 - 30
1885130	Gamma-Chlordane	3.32	Spike	P	0 - 30
1885130	Heptachlor	1.54	Spike	P	0 - 30
1885130	Heptachlor Epoxide	2.40	Spike	P	0 - 30
1885130	Methoxychlor	12.3	Spike	P	0 - 30
1885130	Mirex	8.58	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P322674

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1885130	Permethrin	7.73	Spike	P	0 - 30
1885130	Trifluralin	2.79	Spike	P	0 - 30
LFB	Aldrin	27.8	LCS	P	0 - 30
LFB	Alpha-BHC	0.511	LCS	P	0 - 30
LFB	Alpha-Chlordane	2.22	LCS	P	0 - 30
LFB	Beta-BHC	6.69	LCS	P	0 - 30
LFB	Carbophenothion	6.90	LCS	P	0 - 30
LFB	Chlorothalonil	14.0	LCS	P	0 - 30
LFB	Cypermethrin	0.665	LCS	P	0 - 30
LFB	DDD-p,p'	1.03	LCS	P	0 - 30
LFB	DDE-p,p'	0.412	LCS	P	0 - 30
LFB	DDT-p,p'	3.17	LCS	P	0 - 30
LFB	Delta-BHC	7.67	LCS	P	0 - 30
LFB	Dicofol	8.00	LCS	P	0 - 30
LFB	Dieldrin	0.0500	LCS	P	0 - 30
LFB	Endosulfan I	0.593	LCS	P	0 - 30
LFB	Endosulfan II	2.48	LCS	P	0 - 30
LFB	Endosulfan Sulfate	5.38	LCS	P	0 - 30
LFB	Endrin	0.759	LCS	P	0 - 30
LFB	Endrin Aldehyde	1.40	LCS	P	0 - 30
LFB	Endrin Ketone	2.42	LCS	P	0 - 30
LFB	Gamma-BHC	4.50	LCS	P	0 - 30
LFB	Gamma-Chlordane	0.242	LCS	P	0 - 30
LFB	Heptachlor	0.136	LCS	P	0 - 30
LFB	Heptachlor Epoxide	0.329	LCS	P	0 - 30
LFB	Methoxychlor	11.4	LCS	P	0 - 30
LFB	Mirex	0.631	LCS	P	0 - 30
LFB	Permethrin	0.146	LCS	P	0 - 30
LFB	Trifluralin	7.54	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P322307

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1883895	Sucralose	1.55	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P322599

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1884219	Pyraclostrobin	6.86	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P322434

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1884164	Color (true)	0.137	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B
Batch ID: P322437

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1884187	Color (true)	2.29	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P322916

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1884321	Total Alkalinity	0.157	Sample	P	0 - 4.8

Reference Method: SM 2320 B-97
Batch ID: P322917

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1884088	Total Alkalinity	0.131	Sample	P	0 - 4.8

Reference Method: SM 2320 B-97
Batch ID: P323074

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1884625	Total Alkalinity	0.172	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P322829

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1884007	TDS	8.42	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P322830

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1884163	TDS	0.772	Sample	P	0 - 10

Reference Method: SM 2540 D-97
Batch ID: P323019

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1884163	TSS	9.23	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P322919

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1884321	Fluoride	0.520	Spike	P	0 - 3.0

Quality Assurance Report Precision

Reference Method: SM 4500 F-C-97
Batch ID: P323077

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1884088	Fluoride	0.480	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P322511

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1884008	Organic Carbon	0.0989	Spike	P	0 - 20

Reference Method: SM 5310 B-00
Batch ID: P322584

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1884197	Organic Carbon	0.381	Spike	P	0 - 20

Reference Method: USGS O-2060-01
Batch ID: P322532

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1884218	2,4-D	5.21	Spike	P	0 - 30
1884218	Acetaminophen	1.35	Spike	P	0 - 30
1884218	Bentazon	2.90	Spike	P	0 - 30
1884218	Carbamazepine	1.99	Spike	P	0 - 30
1884218	Diuron	17.6	Spike	P	0 - 30
1884218	Fenuron	1.69	Spike	P	0 - 30
1884218	Fluridone	0.897	Spike	P	0 - 30
1884218	Imidacloprid	8.27	Spike	P	0 - 30
1884218	Linuron	23.2	Spike	P	0 - 30
1884218	MCP	8.92	Spike	P	0 - 30
1884218	Primidone	16.9	Spike	P	0 - 30
1884218	Triclopyr	13.4	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: 1884216
Field Sample ID: G1SD032817-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	106	P	40 - 150
USGS O-2060-01	2,4-D-d3	103	P	40 - 150
USGS O-2060-01	Acetaminophen-d4	64.0	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	71.6	P	40 - 160
USGS O-2060-01	Diuron-d6	50.0	P	40 - 150
USGS O-2060-01	Primidone-d5	68.6	P	40 - 150

Quality Assurance Report Surrogates

Lab Sample ID: 1884217

Field Sample ID: G1SD032817-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	111	P	40 - 150
USGS O-2060-01	2,4-D-d3	106	P	40 - 150
USGS O-2060-01	Acetaminophen-d4	72.2	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	81.0	P	40 - 160
USGS O-2060-01	Diuron-d6	52.8	P	40 - 150
USGS O-2060-01	Primidone-d5	75.4	P	40 - 150

Lab Sample ID: 1884218

Field Sample ID: G1SD032817-3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	83.5	P	40 - 150
USGS O-2060-01	2,4-D-d3	95.4	P	40 - 150
USGS O-2060-01	Acetaminophen-d4	76.8	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	43.8	P	40 - 160
USGS O-2060-01	Diuron-d6	48.8	P	40 - 150
USGS O-2060-01	Primidone-d5	51.0	P	40 - 150

Lab Sample ID: 1884219

Field Sample ID: G1SD032817-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Diuron-d6	116	P	40 - 150

Lab Sample ID: 1884220

Field Sample ID: G1SD032817-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Diuron-d6	107	P	40 - 150

Lab Sample ID: 1884221

Field Sample ID: G1SD032817-3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Diuron-d6	134	P	40 - 150

Lab Sample ID: 1884222

Field Sample ID: G1SD032817-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	55.2	P	51 - 123
EPA 8270D	Tetrachloro-m-xylene	45.6	P	31 - 111

Lab Sample ID: 1884223

Field Sample ID: G1SD032817-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	59.9	P	51 - 123
EPA 8270D	Tetrachloro-m-xylene	54.1	P	31 - 111

Quality Assurance Report Surrogates

Lab Sample ID: 1884224

Field Sample ID: G1SD032817-3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	86.3	P	51 - 123
EPA 8270D	Tetrachloro-m-xylene	52.4	P	31 - 111

Lab Sample ID: 1884225

Field Sample ID: G1SD032817-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	99.3	P	62 - 132
EPA 8270D	Simazine-d10	81.2	P	72 - 127

Lab Sample ID: 1884226

Field Sample ID: G1SD032817-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	89.9	P	62 - 132
EPA 8270D	Simazine-d10	85.2	P	72 - 127

Lab Sample ID: 1884227

Field Sample ID: G1SD032817-3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	75.7	P	62 - 132
EPA 8270D	Simazine-d10	99.8	P	72 - 127

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B

Run ID: A75443

Included Lab Sample IDs: 1884186, 1884187, 1884188

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	102	P/P	85 - 115
Color (true)	99.2	102	P/P	85 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A75452

Included Lab Sample IDs: 1884192, 1884193, 1884194, 1884199, 1884200

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.0	99.0	P/P	90 - 110
O-Phosphate-P	98.5	99.2	P/P	90 - 110
O-Phosphate-P	99.0	98.5	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A75456

Included Lab Sample IDs: 1884186, 1884187, 1884188, 1884195, 1884196

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	99.0	P/P	95 - 105
Turbidity	100	100	P/P	95 - 105

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A75457

Included Lab Sample IDs: 1884216, 1884217, 1884218

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	104	107	P/P	60 - 150
Sucralose	88.2	79.2	P/P	60 - 150

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A75470

Included Lab Sample IDs: 1884189, 1884190, 1884191, 1884197, 1884198

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

Reference Method: SM 5310 B-00

Run ID: A75475

Included Lab Sample IDs: 1884189, 1884190, 1884191

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.2	95.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A75490

Included Lab Sample IDs: 1884189, 1884190, 1884191

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.0	97.5	P/P	90 - 110
NO2NO3-N	98.5	98.0	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A75496

Included Lab Sample IDs: 1884197, 1884198

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.1	95.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A75499

Included Lab Sample IDs: 1884189, 1884190

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.4	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A75520

Included Lab Sample IDs: 1884197, 1884198

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.0	97.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A75523

Included Lab Sample IDs: 1884197

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A75527

Included Lab Sample IDs: 1884191

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A75528

Included Lab Sample IDs: 1884198

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A75541

Included Lab Sample IDs: 1884190

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	106	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A75554

Included Lab Sample IDs: 1884189, 1884191

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A75555

Included Lab Sample IDs: 1884197, 1884198

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	96.7	P/P	90 - 110
Kjeldahl Nitrogen	96.7	97.6	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A75575

Included Lab Sample IDs: 1884219, 1884220, 1884221

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraclostrobin	88.8	75.2	P/P	60 - 150

Reference Method: EPA 8270D

Run ID: A75598

Included Lab Sample IDs: 1884225, 1884226

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	99.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A75598

Included Lab Sample IDs: 1884225, 1884226

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Alachlor	103		P	80 - 120
Ametryn	102		P	80 - 120
Atrazine	99.8		P	80 - 120
Atrazine Desethyl	94.4		P	80 - 120
Azinphos Methyl	99.2		P	80 - 120
Bromacil	108		P	80 - 120
Butylate	98.9		P	80 - 120
Chlorpyrifos Ethyl	98.8		P	80 - 120
Chlorpyrifos Methyl	98.2		P	80 - 120
Cyanazine	98.7		P	80 - 120
Demeton	98.6		P	80 - 120
Diazinon	99.2		P	80 - 120
Disulfoton	94.3		P	80 - 120
EPTC	103		P	80 - 120
Ethion	95.8		P	80 - 120
Ethoprop	97.8		P	80 - 120
Fenamiphos	94.6		P	80 - 120
Fipronil	98.8		P	80 - 120
Fipronil Sulfide	98.5		P	80 - 120
Fipronil Sulfone	101		P	80 - 120
Fonofos	97.8		P	80 - 120
Hexazinone	99.4		P	80 - 120
Malathion	96.6		P	80 - 120
Metalaxyl	102		P	80 - 120
Metolachlor	103		P	80 - 120
Metribuzin	96.4		P	80 - 120
Mevinphos	106		P	80 - 120
Molinate	103		P	80 - 120
Norflurazon	101		P	80 - 120
Parathion Ethyl	98.3		P	80 - 120
Parathion Methyl	93.9		P	80 - 120
Pendimethalin	89.0		P	80 - 120
Phorate	94.9		P	80 - 120
Prometon	103		P	80 - 120
Prometryn	95.9		P	80 - 120
Simazine	96.6		P	80 - 120
Terbufos	91.3		P	80 - 120
Terbuthylazine	101		P	80 - 120

Reference Method: EPA 8270D

Run ID: A75603

Included Lab Sample IDs: 1884227

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	98.7		P	80 - 120
Alachlor	100		P	80 - 120
Ametryn	100		P	80 - 120
Atrazine	100		P	80 - 120
Atrazine Desethyl	94.6		P	80 - 120
Azinphos Methyl	100		P	80 - 120
Bromacil	112		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D
Run ID: A75603
Included Lab Sample IDs: 1884227

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Butylate	101		P	80 - 120
Chlorpyrifos Ethyl	100		P	80 - 120
Chlorpyrifos Methyl	99.3		P	80 - 120
Cyanazine	92.6		P	80 - 120
Demeton	99.2		P	80 - 120
Diazinon	101		P	80 - 120
Disulfoton	93.3		P	80 - 120
EPTC	101		P	80 - 120
Ethion	95.6		P	80 - 120
Ethoprop	100		P	80 - 120
Fenamiphos	93.3		P	80 - 120
Fipronil	97.9		P	80 - 120
Fipronil Sulfide	91.1		P	80 - 120
Fipronil Sulfone	99.3		P	80 - 120
Fonofos	97.6		P	80 - 120
Hexazinone	98.4		P	80 - 120
Malathion	99.6		P	80 - 120
Metalaxyl	97.4		P	80 - 120
Metolachlor	103		P	80 - 120
Metribuzin	98.0		P	80 - 120
Mevinphos	108		P	80 - 120
Molinate	100		P	80 - 120
Norflurazon	96.9		P	80 - 120
Parathion Ethyl	96.8		P	80 - 120
Parathion Methyl	97.5		P	80 - 120
Pendimethalin	97.3		P	80 - 120
Phorate	98.1		P	80 - 120
Prometon	101		P	80 - 120
Prometryn	97.1		P	80 - 120
Simazine	107		P	80 - 120
Terbufos	93.9		P	80 - 120
Terbutylazine	98.5		P	80 - 120

Reference Method: SM 2320 B-97
Run ID: A75625
Included Lab Sample IDs: 1884186, 1884187, 1884195, 1884196

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	105	P/P	90 - 110
Total Alkalinity	105	101	P/P	90 - 110
Total Alkalinity	105	101	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Run ID: A75625
Included Lab Sample IDs: 1884186, 1884187, 1884188

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	95.0	96.6	P/P	90 - 110
Fluoride	96.6	95.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A75672

Included Lab Sample IDs: 1884187

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	105	104	P/P	90 - 110
Sulfate	104	98.9	P/P	90 - 110

Reference Method: EPA 8270D

Run ID: A75678

Included Lab Sample IDs: 1884222, 1884223

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	95.8		P	80 - 120
Alpha-BHC	99.1		P	80 - 120
Alpha-Chlordane	96.3		P	80 - 120
Beta-BHC	103		P	80 - 120
Carbophenothion	82.7		P	80 - 120
Chlorothalonil	90.1		P	80 - 120
Cypermethrin	90.1		P	80 - 120
DDD-p,p'	97.6		P	80 - 120
DDE-p,p'	97.4		P	80 - 120
DDT-p,p'	102		P	80 - 120
Delta-BHC	93.7		P	80 - 120
Dicofol	109		P	80 - 120
Dieldrin	95.8		P	80 - 120
Endosulfan I	92.9		P	80 - 120
Endosulfan II	84.0		P	80 - 120
Endosulfan Sulfate	95.7		P	80 - 120
Endrin	83.4		P	80 - 120
Endrin Aldehyde	81.4		P	80 - 120
Endrin Ketone	93.3		P	80 - 120
Gamma-BHC	101		P	80 - 120
Gamma-Chlordane	96.3		P	80 - 120
Heptachlor	97.3		P	80 - 120
Heptachlor Epoxide	95.7		P	80 - 120
Methoxychlor	104		P	80 - 120
Mirex	98.0		P	80 - 120
Permethrin	94.6		P	80 - 120
Trifluralin	88.5		P	80 - 120

Reference Method: USGS O-2060-01

Run ID: A75682

Included Lab Sample IDs: 1884216, 1884217, 1884218

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetaminophen	115	103	P/P	60 - 150
Acetaminophen	90.0	84.8	P/P	60 - 150
Carbamazepine	114	99.2	P/P	60 - 150
Carbamazepine	132	112	P/P	60 - 150
Diuron	104	108	P/P	60 - 150
Diuron	92.4	109	P/P	60 - 150
Fenuron	104	110	P/P	60 - 150
Fenuron	104	113	P/P	60 - 150
Fluridone	102	108	P/P	60 - 150
Fluridone	108	117	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: USGS O-2060-01

Run ID: A75682

Included Lab Sample IDs: 1884216, 1884217, 1884218

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Imidacloprid	108	92.4	P/P	60 - 150
Imidacloprid	116	98.8	P/P	60 - 150
Linuron	130	148	P/P	60 - 150
Linuron	86.4	107	P/P	60 - 150
Primidone	131	138	P/P	60 - 150
Primidone	83.6	94.4	P/P	60 - 150

Reference Method: EPA 8270D

Run ID: A75707

Included Lab Sample IDs: 1884224

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	100		P	80 - 120
Alpha-BHC	101		P	80 - 120
Alpha-Chlordane	98.8		P	80 - 120
Beta-BHC	93.9		P	80 - 120
Carbophenothion	82.4		P	80 - 120
Chlorothalonil	119		P	80 - 120
Cypermethrin	91.0		P	80 - 120
DDD-p,p'	96.9		P	80 - 120
DDE-p,p'	102		P	80 - 120
DDT-p,p'	104		P	80 - 120
Delta-BHC	101		P	80 - 120
Dicofol	108		P	80 - 120
Dieldrin	98.2		P	80 - 120
Endosulfan I	101		P	80 - 120
Endosulfan II	91.7		P	80 - 120
Endosulfan Sulfate	84.2		P	80 - 120
Endrin	103		P	80 - 120
Endrin Aldehyde	91.0		P	80 - 120
Endrin Ketone	89.8		P	80 - 120
Gamma-BHC	96.0		P	80 - 120
Gamma-Chlordane	99.8		P	80 - 120
Heptachlor	102		P	80 - 120
Heptachlor Epoxide	98.1		P	80 - 120
Methoxychlor	107		P	80 - 120
Mirex	100		P	80 - 120
Permethrin	90.8		P	80 - 120
Trifluralin	103		P	80 - 120

Reference Method: SM 2320 B-97

Run ID: A75710

Included Lab Sample IDs: 1884188

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	104	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500 F-C-97

Run ID: A75710

Included Lab Sample IDs: 1884195, 1884196

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	97.6	97.5	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A75723

Included Lab Sample IDs: 1884186, 1884188

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	97.9	100	P/P	90 - 110
Sulfate	93.7	98.2	P/P	90 - 110

Reference Method: USGS O-2060-01

Run ID: A75741

Included Lab Sample IDs: 1884216, 1884217

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	116	119	P/P	50 - 150
Bentazon	85.6	94.4	P/P	50 - 150
MCP	122	93.8	P/P	50 - 150
Triclopyr	115	111	P/P	50 - 150

* 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						2.70	
	Turbidity						3.36	
EPA 300.0 Rev. 2.1	Chloride	105		106	105		0.740	
	Chloride	96.6		98.2	98.7		0.279	
	Sulfate	103		104	104			
	Sulfate	94.9		94.4	94.3		0.174	
EPA 350.1 Rev. 2.0	Ammonia-N	105		103	102			1.02
	Ammonia-N	105		103	102			0.483
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102		101	104			2.61
	Kjeldahl Nitrogen	109		98.3	112			8.26
	Kjeldahl Nitrogen	103		93.1	94.9			1.40
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100		97.2	100			2.54
	NO ₂ NO ₃ -N	99.0		96.2				0.393
	NO ₂ NO ₃ -N	100		101	101			0.445
EPA 365.1 Rev. 2.0	Total-P	104		101	96.1			4.26
	Total-P	101		104	106			1.50
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	102		96.9	98.4			1.18
	O-Phosphate-P	101		98.6	102			2.34
EPA 8270D	Acetochlor	84.6	90.7	96.6	86.8	6.97		10.7
	Alachlor	84.7	90.3	100	90.5	6.34		10.2
	Aldrin	47.3	45.6	55.8	50.5	3.80		9.92

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Aldrin	46.9	62.0	71.7	72.5	27.8	1.13
	Alpha-BHC	71.0	76.6	79.4	72.0	7.58	9.84
	Alpha-BHC	86.3	85.9	88.2	84.9	0.511	3.78
	Alpha-Chlordane	66.4	69.0	74.2	69.2	3.80	6.95
	Alpha-Chlordane	92.8	94.9	98.7	97.0	2.22	1.77
	Ametryn	95.9	115	141	124	18.3	13.3
	Atrazine	92.7	93.1	108	92.4	0.361	3.83
	Atrazine Desethyl	61.5	65.8	53.2	55.4	6.75	3.46
	Azinphos Methyl	91.1	106	104	99.2	14.8	4.82
	Beta-BHC	81.8	92.1	87.8	83.4	11.8	5.08
	Beta-BHC	88.8	83.0	91.9	105	6.69	13.4
	Bromacil	81.4	77.9	108	85.3	4.40	23.2
	Butylate	54.9	56.5	44.1	38.2	2.94	14.4
	Carbophenothion	45.2	25.2	84.6	79.0	57.0	6.91
	Carbophenothion	96.6	90.2	122	116	6.90	5.22
	Chlorothalonil	79.5	103	61.6	84.7	25.5	31.6
	Chlorothalonil	118	102	60.9	80.9	14.0	28.1
	Chlorpyrifos Ethyl	84.3	83.7	83.4	77.8	0.691	6.97
	Chlorpyrifos Methyl	77.6	81.9	87.1	77.7	5.41	11.4
	Cyanazine	91.8	99.5	106	98.9	8.14	7.00
	Cypermethrin	75.5	75.0	71.3	74.1	0.636	3.80
	Cypermethrin	89.8	89.2	101	89.9	0.665	11.7
	DDD-p,p'	73.6	82.8	84.0	80.0	11.8	4.86
	DDD-p,p'	92.7	91.7	93.9	86.8	1.03	7.87
	DDE-p,p'	71.1	81.4	80.3	78.6	13.5	2.16
	DDE-p,p'	98.8	99.2	103	99.8	0.412	3.48
	DDT-p,p'	84.0	91.5	83.2	81.3	8.53	2.30
	DDT-p,p'	85.2	87.9	92.9	84.0	3.17	10.0
	Delta-BHC	88.4	102	105	98.7	14.2	5.84
	Delta-BHC	105	97.3	133	109	7.67	20.0
	Demeton	84.6	93.5	116	112	10.0	2.81
	Diazinon	82.4	89.0	102	90.8	7.64	11.5
	Dicofol	78.0	70.4	76.5	57.6	10.2	28.1
	Dicofol	82.4	89.3	89.1	97.1	8.00	8.60
	Dieldrin	69.6	73.6	90.8	80.0	5.69	8.65
	Dieldrin	93.9	93.9	98.8	97.5	0.0500	1.39
	Disulfoton	81.1	91.2	88.2	84.1	11.7	4.72
	Endosulfan I	74.0	74.0	79.8	76.0	0.116	4.94
	Endosulfan I	97.1	97.7	111	122	0.593	9.30
	Endosulfan II	78.7	85.1	91.9	84.8	7.92	8.03
	Endosulfan II	93.2	91.0	108	105	2.48	2.83
	Endosulfan Sulfate	73.3	84.1	73.7	71.7	13.8	2.76
	Endosulfan Sulfate	85.8	81.3	95.6	87.7	5.38	8.63
	Endrin	64.6	61.0	68.7	65.8	5.85	4.38
	Endrin	103	104	103	101	0.759	1.10
	Endrin Aldehyde	71.3	72.8	68.7	72.0	1.99	4.72
	Endrin Aldehyde	93.5	92.2	56.3	58.9	1.40	4.64
	Endrin Ketone	98.6	101	106	99.9	2.32	6.19
	Endrin Ketone	78.8	76.9	89.1	84.8	2.42	5.01
	EPTC	57.9	52.7	47.2	43.3	9.34	8.56
	Ethion	90.0	88.8	86.2	76.3	1.40	12.2
	Ethoprop	74.8	79.3	99.9	92.4	5.83	7.85
	Fenamiphos	101	97.9	85.7	78.8	3.03	8.43
	Fipronil	94.1	96.6	105	93.9	2.68	11.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 8270D	Fipronil Sulfide	89.9	86.2	81.8	75.4	4.28		8.07
	Fipronil Sulfone	89.3	82.4	80.7	68.5	8.01		12.3
	Fonofos	72.7	76.7	90.7	87.0	5.38		4.17
	Gamma-BHC	71.7	79.1	87.1	84.2	9.75		3.42
	Gamma-BHC	91.1	87.1	112	116	4.50		4.17
	Gamma-Chlordane	66.4	69.0	74.2	69.2	3.80		6.95
	Gamma-Chlordane	92.3	92.5	98.7	95.5	0.242		3.32
	Heptachlor	61.9	63.5	65.2	61.0	2.43		6.76
	Heptachlor	84.5	84.4	81.8	80.5	0.136		1.54
	Heptachlor Epoxide	69.8	71.1	76.9	73.4	1.93		4.65
	Heptachlor Epoxide	92.7	93.0	98.6	96.2	0.329		2.40
	Hexazinone	90.8	86.5	91.3	82.0	4.85		10.8
	Malathion	88.7	93.0	96.4	86.0	4.72		11.4
	Metalaxyl	82.2	92.7	91.7	83.0	11.9		9.97
	Methoxychlor	79.4	79.7	81.0	75.2	0.372		7.50
	Methoxychlor	90.9	81.1	96.4	85.2	11.4		12.3
	Metolachlor	90.0	92.6	99.2	89.5	2.76		9.75
	Metribuzin	92.5	95.8	107	101	3.48		5.43
	Mevinphos	72.9	75.2	102	106	3.11		3.24
	Mirex	56.1	61.8	64.4	61.6	9.62		4.42
	Mirex	81.4	80.9	91.2	83.7	0.631		8.58
	Molinate	62.2	59.0	61.4	57.3	5.33		6.92
	Norflurazon	92.5	88.3	84.1	77.0	4.63		8.86
	Parathion Ethyl	87.7	86.3	96.7	86.3	1.70		11.4
	Parathion Methyl	81.2	87.6	102	92.8	7.62		9.73
	Pendimethalin	88.0	88.0	102	91.9	0.0625		10.3
	Permethrin	72.4	70.4	71.9	70.5	2.85		1.91
	Permethrin	83.1	83.2	99.1	91.8	0.146		7.73
	Phorate	76.1	84.4	104	101	10.3		2.70
	Prometon	90.2	100	114	99.9	10.5		13.0
	Prometryn	89.6	102	91.2	89.6	12.8		1.77
	Simazine	96.6	94.9	90.8	91.2	1.71		0.406
	Terbufos	71.5	76.8	93.3	86.0	7.16		8.04
	Terbutylazine	91.4	86.1	95.9	85.6	6.03		11.3
	Trifluralin	73.3	72.7	84.8	78.8	0.756		7.34
	Trifluralin	116	108	140	136	7.54		2.79
EPA 8321B	Pyraclostrobin	112		84.4	90.4			6.86
	Sucralose	88.9		113	115			1.55
SM 2120 B	Color (true)						0.137	
	Color (true)						2.29	
SM 2320 B-97	Total Alkalinity	104					0.157	
	Total Alkalinity	104					0.131	
	Total Alkalinity	104					0.172	
SM 2540 C-97	TDS						8.42	
	TDS						0.772	
SM 2540 D-97	TSS						9.23	
SM 4500 F-C-97	Fluoride	94.5						0.520
	Fluoride	99.4		92.1	92.8			0.480
SM 5310 B-00	Organic Carbon	102		103				0.0989
	Organic Carbon	95.9		90.2	90.7			0.381
USGS O-2060-01	2,4-D	91.2		134	127			5.21
	Acetaminophen	86.4		59.6	58.8			1.35
	Bentazon	110						2.90
	Carbamazepine	114		59.6	60.8			1.99

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
USGS O-2060-01	Diuron	76.8	33.2	39.6		17.6
	Fenuron	97.6	47.6	46.8		1.69
	Fluridone	85.6	32.0	32.4		0.897
	Imidacloprid	88.4	102	111		8.27
	Linuron	132	62.4	78.8		23.2
	MCPP	85.6	131	120		8.92
	Primidone	97.2	90.0	76.0		16.9
	Triclopyr	88.0	137	120		13.4

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1884186, 1884187, 1884188, 1884195, 1884196
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1884186, 1884187, 1884188
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1884186, 1884187, 1884188
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1884189, 1884190, 1884191, 1884197, 1884198
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1884189, 1884190, 1884191, 1884197, 1884198
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1884189, 1884190, 1884191, 1884197, 1884198
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1884189, 1884190, 1884191, 1884197, 1884198
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1884192, 1884193, 1884194, 1884199, 1884200
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	1884222, 1884223, 1884224
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1884225, 1884226, 1884227
EPA 8321B / E31780	Pyraclostrobin in water matrices by HPLC/MS/MS	1884219, 1884220, 1884221
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	1884216, 1884217, 1884218
SM 2120 B / E31780	True Color measured at 450 nm	1884186, 1884187, 1884188
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1884186, 1884187, 1884188, 1884195, 1884196
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1884186, 1884187, 1884188
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1884186, 1884187, 1884188, 1884195, 1884196
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1884186, 1884187, 1884188, 1884195, 1884196
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1884189, 1884190, 1884191, 1884197, 1884198
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1884216, 1884217, 1884218
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1884216, 1884217, 1884218

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	03/29/2017			03/29/2017 17:01	Blanca Fach	1884186, 1884187, 1884188, 1884195, 1884196
EPA 300.0 Rev. 2.1	03/29/2017			04/08/2017	Ping Hua	1884187
	03/29/2017			04/11/2017	Ping Hua	1884186, 1884188
EPA 350.1 Rev. 2.0	03/29/2017			03/30/2017	Julie Michelle Frank	1884189, 1884190, 1884191, 1884197, 1884198
EPA 351.2 Rev. 2.0	03/29/2017	03/30/2017	Adrian Shelby	03/31/2017	Joseph Suarez	1884189, 1884190
	03/29/2017	03/31/2017	Adrian Shelby	04/03/2017	Joseph Suarez	1884191
	03/29/2017	04/03/2017	Adrian Shelby	04/04/2017	Joseph Suarez	1884197, 1884198
EPA 353.2 Rev. 2.0	03/29/2017			03/31/2017	Beverly Y. Sanders	1884189, 1884190, 1884191
	03/29/2017			04/03/2017	Beverly Y. Sanders	1884197, 1884198
EPA 365.1 Rev. 2.0	03/29/2017	03/31/2017	Adrian Shelby	04/03/2017	Lipi Saha	1884197, 1884198
	03/29/2017	04/03/2017	Vijayalakshmi Reddy	04/04/2017	Christopher Armour	1884190
	03/29/2017	04/03/2017	Vijayalakshmi Reddy	04/04/2017	Lipi Saha	1884189, 1884191
EPA 365.1 Rev. 2.0 dissolved	03/29/2017			03/29/2017 15:03	Anthony C. Onicha	1884192
	03/29/2017			03/29/2017 15:05	Anthony C. Onicha	1884194
	03/29/2017			03/29/2017 15:08	Anthony C. Onicha	1884200
	03/29/2017			03/29/2017 15:21	Anthony C. Onicha	1884193
	03/29/2017			03/29/2017 15:30	Anthony C. Onicha	1884199
EPA 8270D	03/29/2017	03/30/2017	Fe-Val Siddell	04/01/2017	Irina Carbone	1884225, 1884226
	03/29/2017	03/30/2017	Fe-Val Siddell	04/03/2017	Irina Carbone	1884227
	03/29/2017	03/30/2017	John Kaba	04/03/2017	Vandana T. Nagar	1884222, 1884223
	03/29/2017	04/04/2017	Fe-Val Siddell	04/07/2017	Vandana T. Nagar	1884224
EPA 8321B	03/29/2017	03/29/2017	Mohammad Ghaffari	03/29/2017	Mohammad Ghaffari	1884216, 1884217
	03/29/2017	03/29/2017	Mohammad Ghaffari	03/30/2017	Mohammad Ghaffari	1884218
	03/29/2017	04/03/2017	Fe-Val Siddell	04/04/2017	Juyoung Kim	1884219, 1884220, 1884221
SM 2120 B	03/29/2017			03/29/2017 18:04	Julie Michelle Frank	1884186
	03/29/2017			03/29/2017 18:06	Julie Michelle Frank	1884188
	03/29/2017			03/29/2017 18:32	Julie Michelle Frank	1884187
SM 2320 B-97	03/29/2017			04/06/2017	Dale L. Simmons	1884186, 1884187, 1884195, 1884196
	03/29/2017			04/10/2017	Dale L. Simmons	1884188
SM 2540 C-97	03/29/2017			03/31/2017	Yijie Li	1884186, 1884187, 1884188
SM 2540 D-97	03/29/2017			03/31/2017	Yijie Li	1884186, 1884187, 1884188, 1884195, 1884196
SM 4500 F-C-97	03/29/2017			04/06/2017	Dale L. Simmons	1884186, 1884187, 1884188
	03/29/2017			04/10/2017	Dale L. Simmons	1884195, 1884196
SM 5310 B-00	03/29/2017			03/30/2017	Julie Michelle Frank	1884189, 1884190, 1884191
	03/29/2017			03/31/2017	Julie Michelle Frank	1884197, 1884198
USGS O-2060-01	03/29/2017	03/31/2017	Hoor Shaik	04/07/2017	Juyoung Kim	1884216, 1884217, 1884218
	03/29/2017	03/31/2017	Hoor Shaik	04/11/2017	Juyoung Kim	1884218
	03/29/2017	03/31/2017	Hoor Shaik	04/12/2017	Juyoung Kim	1884216, 1884217