

Chemical Analysis Report

WQAP-2017-07-11-04

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

Event Description: **pesticide template kit: C**
Request ID: **RQ-2017-06-19-34**
Customer: **WQAP**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Rd
MS #3560
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Certified by: Thekkekalathil Chandrasekhar, Chemist Administrator

Date Certified: 04-AUG-2017 17:09



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: Little Aucilla @ US 90

Collection Date/Time: 07/11/2017 10:20

Field ID: G1TLHR0029-2017-01

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1912634	EPA 180.1 Rev. 2.0	Turbidity	0.70		NTU	P328429	
	EPA 300.0 Rev. 2.1	Chloride	4.6		mg Cl/L	P328455	
		Sulfate	0.20	U	mg SO4/L	P328459	
	SM 2120 B	Color (true)	600		PCU	P328292	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P328660	
	SM 2540 C-97	TDS	62		mg/L	P328641	
	SM 2540 D-97	TSS	2	I	mg/L	P328732	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P328819	
1912638	EPA 350.1 Rev. 2.0	Ammonia-N	0.12		mg N/L	P328587	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.8		mg N/L	P328562	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P328458	
	EPA 365.1 Rev. 2.0	Total-P	0.022		mg P/L	P328695	
	SM 5310 B-00	Organic Carbon	59		mg C/L	P328860	
1912642	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.009	I	mg P/L	P328379	
1912662	EPA 200.7 Rev. 4.4	Calcium	1.94		mg/L	P328477	
		Iron	1.88E+03		ug/L	P328477	
		Magnesium	1.05		mg/L	P328477	
		Potassium	0.42	I	mg/L	P328477	
		Sodium	2.5		mg/L	P328477	
		Zinc	10	I	ug/L	P328477	
	EPA 200.8 Rev. 5.4	Arsenic	0.56		ug/L	P328477	
		Cadmium	0.025	I	ug/L	P328477	
		Chromium	0.70	I	ug/L	P328477	
		Copper	1.10		ug/L	P328477	
		Lead	0.64		ug/L	P328477	
		Nickel	1.10		ug/L	P328477	
		Silver	0.010	U	ug/L	P328477	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

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

SM 5310 B-00: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

EPA 200.8 Rev. 5.4: The lead result was confirmed in the undigested sample on 07/28/2017.

Sample Location: Little Aucilla @ US 90

Collection Date/Time: 07/11/2017 10:20

Field ID: G1TLHR0029-2017-01

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1912650	EPA 8321B	Glyphosate**	0.50	U	ug/L	P328335	
		Pyraclostrobin**	0.0020	U	ug/L	P328371	
		Sucralose**	0.010	U	ug/L	P328334	
	USGS O-2060-01	2,4-D	0.0020	U	ug/L	P328267	
		Diuron	8.0E-04	U	ug/L	P328267	
		Fenuron	0.0087	I	ug/L	P328267	
		Imidacloprid	8.0E-04	U	ug/L	P328267	
		Bentazon	8.0E-04	U	ug/L	P328267	

Field ID: G1TLHR0029-2017-01

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1912650	USGS O-2060-01	Linuron	0.0040	U	ug/L	P328267	
		Acetaminophen**	0.0080	U	ug/L	P328267	
		MCPP	0.0020	U	ug/L	P328267	
		Carbamazepine**	4.0E-04	U	ug/L	P328267	
		Triclopyr**	0.0040	U	ug/L	P328267	
		Primidone**	0.0040	U	ug/L	P328267	
		Fluridone**	4.0E-04	U	ug/L	P328267	
1912654	EPA 8270D	Aldrin	4.4	U	ng/L	P328221	
		Alpha-BHC	2.2	U	ng/L	P328221	
		Beta-BHC	4.4	U	ng/L	P328221	
		Delta-BHC	4.4	U	ng/L	P328221	
		Gamma-BHC	4.4	U	ng/L	P328221	
		Carbophenothion	4.4	U	ng/L	P328221	
		Chlorothalonil	2.2	U	ng/L	P328221	
		Cypermethrin	22	U	ng/L	P328221	
		DDD-p,p'	2.2	U	ng/L	P328221	
		DDE-p,p'	3.3	U	ng/L	P328221	
		DDT-p,p'	3.3	U	ng/L	P328221	
		Dieldrin	4.4	U	ng/L	P328221	
		Endosulfan I	4.4	U	ng/L	P328221	
		Endosulfan II	4.4	U	ng/L	P328221	
		Endosulfan Sulfate	2.2	U	ng/L	P328221	
		Endrin	2.2	U	ng/L	P328221	
		Endrin Aldehyde	2.2	U	ng/L	P328221	
		Heptachlor	1.7	U	ng/L	P328221	
		Heptachlor Epoxide	2.2	U	ng/L	P328221	
		Methoxychlor	4.4	U	ng/L	P328221	
		Mirex	2.2	U	ng/L	P328221	
		Permethrin	11	U	ng/L	P328221	
		Trifluralin	1.1	U	ng/L	P328221	
		Alpha-Chlordane	1.1	U	ng/L	P328221	
		Gamma-Chlordane	1.1	U	ng/L	P328221	
		Endrin Ketone	2.2	U	ng/L	P328221	
		Dicofol	33	U	ng/L	P328221	
	EPA 8276	Chlordane**	2.8	U	ng/L	P328221	
		Toxaphene**	14	U	ng/L	P328221	
1912658	EPA 8270D	Alachlor	0.26	U	ng/L	P328497	
		Ametryn	0.34	U	ng/L	P328497	
		Atrazine	0.26	U	ng/L	P328497	
		Atrazine Desethyl	1.5	U	ng/L	P328497	MS
		Azinphos Methyl	2.3	U	ng/L	P328497	
		Bromacil	0.52	U	ng/L	P328497	
		Butylate	0.41	U	ng/L	P328497	RPD
		Chlorpyrifos Ethyl	0.26	U	ng/L	P328497	
		Chlorpyrifos Methyl	0.10	U	ng/L	P328497	

Field ID: G1TLHR0029-2017-01

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1912658	EPA 8270D	Demeton	2.1	U	ng/L	P328497	
		Diazinon	0.13	U	ng/L	P328497	
		Disulfoton	0.34	U	ng/L	P328497	
		EPTC	1.3	UJ	ng/L	P328497	RPD
		Ethion	0.15	U	ng/L	P328497	
		Ethoprop	0.10	U	ng/L	P328497	
		Fenamiphos	0.26	U	ng/L	P328497	
		Fipronil	0.26	U	ng/L	P328497	
		Fipronil Sulfide	0.15	U	ng/L	P328497	
		Fipronil Sulfone	0.15	U	ng/L	P328497	
		Hexazinone	0.52	U	ng/L	P328497	
		Malathion	0.36	U	ng/L	P328497	
		Metribuzin	0.21	UJ	ng/L	P328497	LCS, MS
		Mevinphos	0.52	U	ng/L	P328497	
		Molinate	0.31	U	ng/L	P328497	
		Norflurazon	0.52	U	ng/L	P328497	
		Pendimethalin	1.5	U	ng/L	P328497	
		Phorate	0.26	U	ng/L	P328497	
		Prometon	0.93	U	ng/L	P328497	
		Prometryn	0.21	U	ng/L	P328497	MS
		Simazine	0.52	U	ng/L	P328497	
		Terbufos	0.10	U	ng/L	P328497	
		Terbuthylazine	0.44	U	ng/L	P328497	
		Fonofos	0.21	U	ng/L	P328497	
		Metalaxyl	0.21	U	ng/L	P328497	
		Metolachlor	2.3		ng/L	P328497	
		Acetochlor	0.26	U	ng/L	P328497	MS
		Cyanazine	0.52	UJ	ng/L	P328497	LCS
		Parathion Ethyl	0.26	U	ng/L	P328497	
		Parathion Methyl	0.26	U	ng/L	P328497	

Ref. Method and Comment:

USGS O-2060-01: MS accuracy for carbamazepine and imidacloprid 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: Middle of Cherry Lake

Collection Date/Time: 07/11/2017 11:25

Field ID: G1TLHR0048-2017-02

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1912635	EPA 180.1 Rev. 2.0	Turbidity	0.90		NTU	P328429	
	EPA 300.0 Rev. 2.1	Chloride	6.5		mg Cl/L	P328455	
		Sulfate	2.3		mg SO4/L	P328459	
	SM 2120 B	Color (true)	6.0		PCU	P328292	
	SM 2320 B-97	Total Alkalinity	8.7		mg CaCO3/L	P328660	
	SM 2540 C-97	TDS	24	I	mg/L	P328641	
	SM 2540 D-97	TSS	2	I	mg/L	P328732	

Field ID: G1TLHR0048-2017-02

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1912635	SM 4500 F-C-97	Fluoride	0.059	I	mg F/L	P328819	
1912639	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P328587	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.48		mg N/L	P328562	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P328458	
	EPA 365.1 Rev. 2.0	Total-P	0.015		mg P/L	P328695	
	SM 5310 B-00	Organic Carbon	4.3		mg C/L	P328860	
1912643	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P328379	
1912663	EPA 200.7 Rev. 4.4	Calcium	3.25		mg/L	P328477	
		Iron	79	I	ug/L	P328477	
		Magnesium	1.31		mg/L	P328477	
		Potassium	0.30	U	mg/L	P328477	
		Sodium	4.7		mg/L	P328477	
		Zinc	5.0	U	ug/L	P328477	
	EPA 200.8 Rev. 5.4	Arsenic	1.94		ug/L	P328477	
		Cadmium	0.020	U	ug/L	P328477	
		Chromium	0.40	U	ug/L	P328477	
		Copper	0.26	I	ug/L	P328477	
		Lead	0.11	I	ug/L	P328477	
		Nickel	0.20	U	ug/L	P328477	
		Silver	0.010	U	ug/L	P328477	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

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

SM 5310 B-00: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Middle of Cherry Lake

Collection Date/Time: 07/11/2017 11:25

Field ID: G1TLHR0048-2017-02

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1912651	EPA 8321B	Glyphosate**	0.50	U	ug/L	P328335	
		Pyraclostrobin**	0.0020	U	ug/L	P328371	
		Sucralose**	0.010	U	ug/L	P328334	
	USGS O-2060-01	2,4-D	0.034		ug/L	P328373	
		Diuron	0.36		ug/L	P328373	
		Fenuron	0.0080	U	ug/L	P328373	
		Imidacloprid	8.0E-04	UJ	ug/L	P328373	MS
		Bentazon	8.0E-04	U	ug/L	P328373	
		Linuron	0.0040	U	ug/L	P328373	
		Acetaminophen**	0.0080	U	ug/L	P328373	
		MCPD	0.0020	U	ug/L	P328373	
		Carbamazepine**	4.0E-04	U	ug/L	P328373	
		Triclopyr**	0.0040	U	ug/L	P328373	
		Primidone**	0.0040	U	ug/L	P328373	
		Fluridone**	4.0E-04	UJ	ug/L	P328373	RPD
1912655	EPA 8270D	Aldrin	4.3	U	ng/L	P328221	
		Alpha-BHC	2.2	U	ng/L	P328221	

Field ID: G1TLHR0048-2017-02

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes	
1912655	EPA 8270D	Beta-BHC	4.3	U	ng/L	P328221		
		Delta-BHC	4.3	U	ng/L	P328221		
		Gamma-BHC	4.3	U	ng/L	P328221		
		Carbophenothion	4.3	U	ng/L	P328221		
		Chlorothalonil	2.2	U	ng/L	P328221		
		Cypermethrin	22	U	ng/L	P328221		
		DDD-p,p'	2.2	U	ng/L	P328221		
		DDE-p,p'	3.2	U	ng/L	P328221		
		DDT-p,p'	3.2	U	ng/L	P328221		
		Dieldrin	4.3	U	ng/L	P328221		
		Endosulfan I	4.3	U	ng/L	P328221		
		Endosulfan II	4.3	U	ng/L	P328221		
		Endosulfan Sulfate	2.2	U	ng/L	P328221		
		Endrin	2.2	U	ng/L	P328221		
		Endrin Aldehyde	2.2	U	ng/L	P328221		
		Heptachlor	1.6	U	ng/L	P328221		
		Heptachlor Epoxide	2.2	U	ng/L	P328221		
		Methoxychlor	4.3	U	ng/L	P328221		
		Mirex	2.2	U	ng/L	P328221		
		Permethrin	11	U	ng/L	P328221		
		Trifluralin	1.1	U	ng/L	P328221		
		Alpha-Chlordane	1.1	U	ng/L	P328221		
		Gamma-Chlordane	1.1	U	ng/L	P328221		
		Endrin Ketone	2.2	U	ng/L	P328221		
		Dicofol	32	U	ng/L	P328221		
	EPA 8276	Chlordane**	2.7	U	ng/L	P328221		
	Toxaphene**	13	U	ng/L	P328221			
	1912659	EPA 8270D	Alachlor	0.26	U	ng/L	P328497	
			Ametryn	0.33	U	ng/L	P328497	
			Atrazine	6.8		ng/L	P328497	
			Atrazine Desethyl	4.5	I	ng/L	P328497	MS
			Azinphos Methyl	2.3	U	ng/L	P328497	
Bromacil			0.51	U	ng/L	P328497		
Butylate			0.41	U	ng/L	P328497	RPD	
Chlorpyrifos Ethyl			0.26	U	ng/L	P328497		
Chlorpyrifos Methyl			0.10	U	ng/L	P328497		
Demeton			2.1	U	ng/L	P328497		
Diazinon			0.13	U	ng/L	P328497		
Disulfoton			0.33	U	ng/L	P328497		
EPTC			1.3	UJ	ng/L	P328497	RPD	
Ethion			0.15	U	ng/L	P328497		
Ethoprop			0.10	U	ng/L	P328497		
Fenamiphos			0.26	U	ng/L	P328497		
Fipronil			0.26	U	ng/L	P328497		
Fipronil Sulfide			0.15	U	ng/L	P328497		

Field ID: G1TLHR0048-2017-02

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1912659	EPA 8270D	Fipronil Sulfone	0.15	U	ng/L	P328497	
		Hexazinone	0.51	U	ng/L	P328497	
		Malathion	0.36	U	ng/L	P328497	
		Metribuzin	0.21	UJ	ng/L	P328497	LCS, MS
		Mevinphos	0.51	U	ng/L	P328497	
		Molinate	0.31	U	ng/L	P328497	
		Norflurazon	0.51	U	ng/L	P328497	
		Pendimethalin	1.5	U	ng/L	P328497	
		Phorate	0.26	U	ng/L	P328497	
		Prometon	0.93	U	ng/L	P328497	
		Prometryn	0.21	U	ng/L	P328497	MS
		Simazine	0.51	U	ng/L	P328497	
		Terbufos	0.10	U	ng/L	P328497	
		Terbuthylazine	0.44	U	ng/L	P328497	
		Fonofos	0.21	U	ng/L	P328497	
		Metalaxyl	0.21	U	ng/L	P328497	
		Metolachlor	13		ng/L	P328497	
		Acetochlor	0.73	I	ng/L	P328497	MS
		Cyanazine	0.51	UJ	ng/L	P328497	LCS
		Parathion Ethyl	0.26	U	ng/L	P328497	
		Parathion Methyl	0.26	U	ng/L	P328497	

Ref. Method and Comment:

USGS O-2060-01: MS accuracy for diuron could not be assessed due to high concentration of parameter in the spiked sample. Refer to the narrative for an explanation of QC Codes.

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

Sample Location: Suwannee River @ Ellaville Boat Ramp

Collection Date/Time: 07/11/2017 12:50

Field ID: G1TLHR0035-2017-02

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1912636	EPA 180.1 Rev. 2.0	Turbidity	1.6	A	NTU	P328430	
	EPA 300.0 Rev. 2.1	Chloride	7.5		mg Cl/L	P328455	
		Sulfate	18		mg SO4/L	P328459	
		Color (true)	370	A	PCU	P328292	
	SM 2320 B-97	Total Alkalinity	81		mg CaCO3/L	P328661	
	SM 2540 C-97	TDS	169		mg/L	P328641	
	SM 2540 D-97	TSS	2	I	mg/L	P328732	
	SM 4500 F-C-97	Fluoride	0.19		mg F/L	P328819	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.028		mg N/L	P328587	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.81		mg N/L	P328562	
1912640	EPA 353.2 Rev. 2.0	NO2NO3-N	0.40		mg N/L	P328458	
	EPA 365.1 Rev. 2.0	Total-P	0.17		mg P/L	P328695	
	SM 5310 B-00	Organic Carbon	28		mg C/L	P328860	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.15		mg P/L	P328379	
1912644	EPA 200.7 Rev. 4.4	Calcium	38.9		mg/L	P328477	
		Iron	880		ug/L	P328477	

Field ID: G1TLHR0035-2017-02

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1912664	EPA 200.7 Rev. 4.4	Magnesium	6.23		mg/L	P328477	
		Potassium	1.4		mg/L	P328477	
		Sodium	5.9		mg/L	P328477	
		Zinc	5.0	U	ug/L	P328477	
	EPA 200.8 Rev. 5.4	Arsenic	1.08		ug/L	P328477	
		Cadmium	0.036	I	ug/L	P328477	
		Chromium	0.76	I	ug/L	P328477	
		Copper	0.30	I	ug/L	P328477	
		Lead	0.45		ug/L	P328477	
		Nickel	0.67	I	ug/L	P328477	
		Silver	0.010	U	ug/L	P328477	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

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

SM 5310 B-00: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Suwannee River @ Ellaville Boat Ramp

Collection Date/Time: 07/11/2017 12:50

Field ID: G1TLHR0035-2017-02

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1912652	EPA 8321B	Glyphosate**	0.50	U	ug/L	P328335	
		Pyraclostrobin**	0.0020	U	ug/L	P328371	
		Sucralose**	0.010	U	ug/L	P328334	
	USGS O-2060-01	2,4-D	0.0020	U	ug/L	P328373	
		Diuron	0.0019	I	ug/L	P328373	
		Fenuron	0.0080	U	ug/L	P328373	
		Imidacloprid	0.0040		ug/L	P328373	MS
		Bentazon	0.0056		ug/L	P328373	
		Linuron	0.0040	U	ug/L	P328373	
		Acetaminophen**	0.0080	U	ug/L	P328373	
		MCP	0.0020	U	ug/L	P328373	
		Carbamazepine**	4.0E-04	U	ug/L	P328373	
		Triclopyr**	0.0040	U	ug/L	P328373	
		Primidone**	0.0040	U	ug/L	P328373	
		Fluridone**	4.0E-04	U	ug/L	P328373	RPD
	EPA 8270D	Aldrin	4.5	U	ng/L	P328221	
		Alpha-BHC	2.2	U	ng/L	P328221	
		Beta-BHC	4.5	U	ng/L	P328221	
		Delta-BHC	4.5	U	ng/L	P328221	
		Gamma-BHC	4.5	U	ng/L	P328221	
		Carbophenothion	4.5	U	ng/L	P328221	
		Chlorothalonil	2.2	U	ng/L	P328221	
		Cypermethrin	22	U	ng/L	P328221	
		DDD-p,p'	2.2	U	ng/L	P328221	
		DDE-p,p'	3.4	U	ng/L	P328221	
		DDT-p,p'	3.4	U	ng/L	P328221	

Field ID: G1TLHR0035-2017-02

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1912656	EPA 8270D	Dieldrin	4.5	U	ng/L	P328221	
		Endosulfan I	4.5	U	ng/L	P328221	
		Endosulfan II	4.5	U	ng/L	P328221	
		Endosulfan Sulfate	2.2	U	ng/L	P328221	
		Endrin	2.2	U	ng/L	P328221	
		Endrin Aldehyde	2.2	U	ng/L	P328221	
		Heptachlor	1.7	U	ng/L	P328221	
		Heptachlor Epoxide	2.2	U	ng/L	P328221	
		Methoxychlor	4.5	U	ng/L	P328221	
		Mirex	2.2	U	ng/L	P328221	
		Permethrin	11	U	ng/L	P328221	
		Trifluralin	1.1	U	ng/L	P328221	
		Alpha-Chlordane	1.1	U	ng/L	P328221	
		Gamma-Chlordane	1.1	U	ng/L	P328221	
		Endrin Ketone	2.2	U	ng/L	P328221	
		Dicofol	34	U	ng/L	P328221	
		Chlordane**	2.8	U	ng/L	P328221	
		Toxaphene**	14	U	ng/L	P328221	
	EPA 8276						
1912660	EPA 8270D	Alachlor	0.24	U	ng/L	P328497	
		Ametryn	0.32	U	ng/L	P328497	
		Atrazine	1.6		ng/L	P328497	
		Atrazine Desethyl	1.5	U	ng/L	P328497	MS
		Azinphos Methyl	2.2	U	ng/L	P328497	
		Bromacil	4.2		ng/L	P328497	
		Butylate	0.39	U	ng/L	P328497	RPD
		Chlorpyrifos Ethyl	0.24	U	ng/L	P328497	
		Chlorpyrifos Methyl	0.098	U	ng/L	P328497	
		Demeton	2.0	U	ng/L	P328497	
		Diazinon	0.12	U	ng/L	P328497	
		Disulfoton	0.32	U	ng/L	P328497	
		EPTC	1.2	UJ	ng/L	P328497	RPD
		Ethion	0.15	U	ng/L	P328497	
		Ethoprop	0.098	U	ng/L	P328497	
		Fenamiphos	0.24	U	ng/L	P328497	
		Fipronil	0.24	U	ng/L	P328497	
		Fipronil Sulfide	0.15	U	ng/L	P328497	
		Fipronil Sulfone	0.15	U	ng/L	P328497	
		Hexazinone	3.8		ng/L	P328497	
		Malathion	0.34	U	ng/L	P328497	
		Metribuzin	0.48	IJ	ng/L	P328497	LCS, MS
		Mevinphos	0.49	U	ng/L	P328497	
		Molinate	0.29	U	ng/L	P328497	
		Norflurazon	0.49	U	ng/L	P328497	
		Pendimethalin	1.5	U	ng/L	P328497	
		Phorate	0.24	U	ng/L	P328497	

Field ID: G1TLHR0035-2017-02

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1912660	EPA 8270D	Prometon	0.88	U	ng/L	P328497	
		Prometryn	0.20	U	ng/L	P328497	MS
		Simazine	1.6	I	ng/L	P328497	
		Terbufos	0.098	U	ng/L	P328497	
		Terbutylazine	0.42	U	ng/L	P328497	
		Fonofos	0.20	U	ng/L	P328497	
		Metalaxyl	1.4		ng/L	P328497	
		Metolachlor	15		ng/L	P328497	
		Acetochlor	0.92	I	ng/L	P328497	MS
		Cyanazine	0.49	UJ	ng/L	P328497	LCS
		Parathion Ethyl	0.24	U	ng/L	P328497	
		Parathion Methyl	0.24	U	ng/L	P328497	

Ref. Method and Comment:

USGS O-2060-01: MS accuracy for diuron 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: Little Alapaha @ US 129

Collection Date/Time: 07/11/2017 14:00

Field ID: g1tlhr0037-2017-02

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1912637	EPA 180.1 Rev. 2.0	Turbidity	0.95		NTU	P328430	
	EPA 300.0 Rev. 2.1	Chloride	9.3		mg Cl/L	P328455	
		Sulfate	2.8		mg SO4/L	P328459	
	SM 2120 B	Color (true)	530		PCU	P328292	
	SM 2320 B-97	Total Alkalinity	43		mg CaCO3/L	P328661	
	SM 2540 C-97	TDS	141		mg/L	P328641	
	SM 2540 D-97	TSS	3	I	mg/L	P328732	
	SM 4500 F-C-97	Fluoride	0.24		mg F/L	P328819	
1912641	EPA 350.1 Rev. 2.0	Ammonia-N	0.015		mg N/L	P328587	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P328562	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.009	I	mg N/L	P328458	
	EPA 365.1 Rev. 2.0	Total-P	0.47		mg P/L	P328695	
	SM 5310 B-00	Organic Carbon	44		mg C/L	P328860	
1912645	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.43		mg P/L	P328379	
1912665	EPA 200.7 Rev. 4.4	Calcium	15.1		mg/L	P328477	
		Iron	910		ug/L	P328477	
		Magnesium	8.46		mg/L	P328477	
		Potassium	0.57	I	mg/L	P328477	
		Sodium	5.2		mg/L	P328477	
		Zinc	5.0	U	ug/L	P328477	
		Arsenic	1.37		ug/L	P328477	
	EPA 200.8 Rev. 5.4	Cadmium	0.020	U	ug/L	P328477	
		Chromium	0.85	I	ug/L	P328477	
		Copper	0.20	U	ug/L	P328477	
		Lead	0.20		ug/L	P328477	
		Nickel	0.78	I	ug/L	P328477	

Field ID: g1tlhr0037-2017-02

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1912665	EPA 200.8 Rev. 5.4	Silver	0.010	U	ug/L	P328477	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

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

SM 5310 B-00: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Little Alapaha @ US 129

Collection Date/Time: 07/11/2017 14:00

Field ID: g1tlhr0037-2017-02

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1912653	EPA 8321B	Glyphosate**	0.50	U	ug/L	P328335	
		Pyraclostrobin**	0.0020	U	ug/L	P328371	
		Sucralose**	0.010	U	ug/L	P328334	
		2,4-D	0.0020	U	ug/L	P328373	
		Diuron	8.0E-04	U	ug/L	P328373	
	USGS O-2060-01	Fenuron	0.0080	U	ug/L	P328373	
		Imidacloprid	8.0E-04	U	ug/L	P328373	MS
		Bentazon	8.0E-04	U	ug/L	P328373	
		Linuron	0.0040	U	ug/L	P328373	
		Acetaminophen**	0.0080	U	ug/L	P328373	
		MCP	0.0020	U	ug/L	P328373	
		Carbamazepine**	4.0E-04	U	ug/L	P328373	
		Triclopyr**	0.0040	U	ug/L	P328373	
		Primidone**	0.0040	U	ug/L	P328373	
		Fluridone**	4.0E-04	U	ug/L	P328373	RPD
1912657	EPA 8270D	Aldrin	4.8	U	ng/L	P328221	
		Alpha-BHC	2.4	U	ng/L	P328221	
		Beta-BHC	4.8	U	ng/L	P328221	
		Delta-BHC	4.8	U	ng/L	P328221	
		Gamma-BHC	4.8	U	ng/L	P328221	
		Carbophenothion	4.8	U	ng/L	P328221	
		Chlorothalonil	2.4	U	ng/L	P328221	
		Cypermethrin	24	U	ng/L	P328221	
		DDD-p,p'	2.4	U	ng/L	P328221	
		DDE-p,p'	3.6	U	ng/L	P328221	
		DDT-p,p'	3.6	U	ng/L	P328221	
		Dieldrin	4.8	U	ng/L	P328221	
		Endosulfan I	4.8	U	ng/L	P328221	
		Endosulfan II	4.8	U	ng/L	P328221	
		Endosulfan Sulfate	2.4	U	ng/L	P328221	
		Endrin	2.4	U	ng/L	P328221	
		Endrin Aldehyde	2.4	U	ng/L	P328221	
		Heptachlor	1.8	U	ng/L	P328221	
		Heptachlor Epoxide	2.4	U	ng/L	P328221	
		Methoxychlor	4.8	U	ng/L	P328221	
		Mirex	2.4	U	ng/L	P328221	

Field ID: g1tlhr0037-2017-02

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1912657	EPA 8270D	Permethrin	12	U	ng/L	P328221	
		Trifluralin	1.2	U	ng/L	P328221	
		Alpha-Chlordane	1.2	U	ng/L	P328221	
		Gamma-Chlordane	1.2	U	ng/L	P328221	
		Endrin Ketone	2.4	U	ng/L	P328221	
		Dicofol	36	U	ng/L	P328221	
		Chlordane**	3.0	U	ng/L	P328221	
		Toxaphene**	15	U	ng/L	P328221	
		Alachlor	0.27	U	ng/L	P328497	
		Ametryn	0.35	U	ng/L	P328497	
1912661	EPA 8270D	Atrazine	0.27	U	ng/L	P328497	
		Atrazine Desethyl	1.6	U	ng/L	P328497	MS
		Azinphos Methyl	2.4	U	ng/L	P328497	
		Bromacil	0.54	U	ng/L	P328497	
		Butylate	0.43	U	ng/L	P328497	RPD
		Chlorpyrifos Ethyl	0.27	U	ng/L	P328497	
		Chlorpyrifos Methyl	0.11	U	ng/L	P328497	
		Demeton	2.2	U	ng/L	P328497	
		Diazinon	0.13	U	ng/L	P328497	
		Disulfoton	0.35	U	ng/L	P328497	
		EPTC	1.3	UJ	ng/L	P328497	RPD
		Ethion	0.16	U	ng/L	P328497	
		Ethoprop	0.63		ng/L	P328497	
		Fenamiphos	0.27	U	ng/L	P328497	
		Fipronil	0.27	U	ng/L	P328497	
		Fipronil Sulfide	0.16	U	ng/L	P328497	
		Fipronil Sulfone	0.16	U	ng/L	P328497	
		Hexazinone	0.54	U	ng/L	P328497	
		Malathion	0.38	U	ng/L	P328497	
		Metribuzin	0.22	UJ	ng/L	P328497	LCS, MS
		Mevinphos	0.54	U	ng/L	P328497	
		Molinate	0.32	U	ng/L	P328497	
		Norflurazon	0.54	U	ng/L	P328497	
		Pendimethalin	1.6	U	ng/L	P328497	
		Phorate	0.27	U	ng/L	P328497	
		Prometon	0.97	U	ng/L	P328497	
		Prometryn	0.22	U	ng/L	P328497	MS
		Simazine	0.54	U	ng/L	P328497	
		Terbufos	0.11	U	ng/L	P328497	
		Terbutylazine	0.46	U	ng/L	P328497	
		Fonofos	0.22	U	ng/L	P328497	
		Metalaxyl	0.22	U	ng/L	P328497	
		Metolachlor	3.5		ng/L	P328497	
		Acetochlor	0.46	I	ng/L	P328497	MS
		Cyanazine	0.54	UJ	ng/L	P328497	LCS

Field ID: g1tlhr0037-2017-02

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1912661	EPA 8270D	Parathion Ethyl	0.27	U	ng/L	P328497	
		Parathion Methyl	0.27	U	ng/L	P328497	

Ref. Method and Comment:
 USGS O-2060-01: MS accuracy for diuron 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.

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P328429

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P328430

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
 Batch ID: P328477

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: P328477

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: P328455

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P328459

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P328587

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P328562

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P328458

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P328695

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P328379

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

Reference Method: EPA 8270D
Batch ID: P328221

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270D

Batch ID: P328221

Component	Result	Code	Units
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: P328497

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	0.10	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
Metaxyl	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
Terbutylazine	0.42	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8276
Batch ID: P328221

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

Reference Method: EPA 8321B
Batch ID: P328334

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B
Batch ID: P328335

Component	Result	Code	Units
Glyphosate	0.50	U	ug/L

Reference Method: EPA 8321B
Batch ID: P328371

Component	Result	Code	Units
Pyraclostrobin	0.0020	U	ug/L

Reference Method: SM 2120 B
Batch ID: P328292

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P328660

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

Reference Method: SM 2320 B-97
Batch ID: P328661

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

Reference Method: SM 2540 C-97
Batch ID: P328641

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P328732

Component	Result	Code	Units
TSS	2	U	mg/L

Quality Assurance Report Method Blank Results

Reference Method: SM 4500 F-C-97
Batch ID: P328819

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P328860

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

Reference Method: USGS O-2060-01
Batch ID: P328267

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Bentazon	8.0E-04	U	ug/L
Carbamazepine	4.0E-04	U	ug/L
Diuron	8.0E-04	U	ug/L
Fenuron	0.0080	U	ug/L
Fluridone	4.0E-04	U	ug/L
Imidacloprid	8.0E-04	U	ug/L
Linuron	0.0040	U	ug/L
MCP	0.0020	U	ug/L
Primidone	0.0040	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: USGS O-2060-01
Batch ID: P328373

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Bentazon	8.0E-04	U	ug/L
Carbamazepine	4.0E-04	U	ug/L
Diuron	8.0E-04	U	ug/L
Fenuron	0.0080	U	ug/L
Fluridone	4.0E-04	U	ug/L
Imidacloprid	8.0E-04	U	ug/L
Linuron	0.0040	U	ug/L
MCP	0.0020	U	ug/L
Primidone	0.0040	U	ug/L
Triclopyr	0.0040	U	ug/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P328477

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	112		P	85 - 115
Iron	112		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P328477

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Magnesium	113		P	85 - 115
Potassium	103		P	85 - 115
Sodium	103		P	85 - 115
Zinc	110		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P328477

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	105		P	85 - 115
Cadmium	107		P	85 - 115
Chromium	103		P	85 - 115
Copper	101		P	85 - 115
Lead	103		P	85 - 115
Nickel	104		P	85 - 115
Silver	103		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P328455

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P328459

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P328587

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P328562

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P328458

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P328695

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	96.7		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P328379

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

Reference Method: EPA 8270D
 Batch ID: P328221

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	53.3	56.1	P/P	26 - 88.0
Alpha-BHC	92.3	91.6	P/P	63 - 114
Alpha-Chlordane	90.3	89.1	P/P	56 - 117
Beta-BHC	103	94.6	P/P	57 - 138
Carbophenothion	90.9	98.6	P/P	36 - 148
Chlorothalonil	98.1	80.9	P/P	26 - 173
Cypermethrin	117	100	P/P	42 - 159
DDD-p,p'	101	101	P/P	62 - 126
DDE-p,p'	90.8	91.6	P/P	53 - 115
DDT-p,p'	100	97.7	P/P	54 - 117
Delta-BHC	125	117	P/P	68 - 158
Dicofol	53.5	56.7	P/P	25 - 114
Dieldrin	98.5	97.6	P/P	59 - 126
Endosulfan I	96.9	93.5	P/P	62 - 138
Endosulfan II	116	108	P/P	61 - 150
Endosulfan Sulfate	110	106	P/P	63 - 132
Endrin	106	96.1	P/P	49 - 148
Endrin Aldehyde	102	94.1	P/P	50 - 144
Endrin Ketone	103	97.8	P/P	66 - 122
Gamma-BHC	98.4	94.7	P/P	60 - 137
Gamma-Chlordane	93.4	90.8	P/P	54 - 113
Heptachlor	78.9	79.2	P/P	43 - 104
Heptachlor Epoxide	93.9	90.7	P/P	64 - 118
Methoxychlor	104	102	P/P	63 - 129
Mirex	82.9	83.4	P/P	39 - 93.0
Permethrin	103	96.7	P/P	51 - 123
Trifluralin	142	136	P/P	35 - 187

Reference Method: EPA 8270D
 Batch ID: P328497

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	87.8	85.7	P/P	78 - 118
Alachlor	87.8	87.9	P/P	77 - 119
Ametryn	84.6	70.7	P/P	61 - 136
Atrazine	93.8	95.0	P/P	73 - 120
Atrazine Desethyl	95.6	91.8	P/P	16 - 122
Azinphos Methyl	85.4	97.2	P/P	69 - 186
Bromacil	86.8	81.1	P/P	40 - 125
Butylate	54.3	43.7	P/P	32 - 87.0
Chlorpyrifos Ethyl	87.8	83.5	P/P	53 - 110
Chlorpyrifos Methyl	88.3	85.6	P/P	31 - 119
Cyanazine	193	236	P/F	36 - 224
Demeton	80.9	75.9	P/P	39 - 122
Diazinon	90.0	94.7	P/P	75 - 119
Disulfoton	92.0	96.3	P/P	42 - 139

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P328497

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
EPTC	57.6	42.5	P/P	33 - 96.0
Ethion	93.3	91.4	P/P	63 - 127
Ethoprop	81.7	87.0	P/P	65 - 107
Fenamiphos	98.9	91.2	P/P	64 - 137
Fipronil	92.7	91.1	P/P	60 - 126
Fipronil Sulfide	91.0	84.5	P/P	58 - 124
Fipronil Sulfone	85.5	79.5	P/P	57 - 126
Fonofos	85.4	89.0	P/P	65 - 111
Hexazinone	88.5	87.5	P/P	46 - 151
Malathion	90.7	90.4	P/P	68 - 132
Metalaxyl	88.9	89.6	P/P	51 - 132
Metolachlor	90.4	89.1	P/P	78 - 119
Metribuzin	148	115	F/P	64 - 138
Mevinphos	81.9	79.0	P/P	34 - 128
Molinate	61.1	53.1	P/P	44 - 101
Norflurazon	88.8	82.8	P/P	63 - 129
Parathion Ethyl	87.4	87.6	P/P	80 - 109
Parathion Methyl	89.7	91.8	P/P	74 - 125
Pendimethalin	85.3	86.5	P/P	48 - 134
Phorate	79.3	90.7	P/P	52 - 119
Prometon	84.5	80.9	P/P	69 - 124
Prometryn	89.5	86.1	P/P	66 - 124
Simazine	96.8	92.6	P/P	61 - 134
Terbufos	83.5	88.7	P/P	58 - 115
Terbutylazine	88.5	88.8	P/P	77 - 113

Reference Method: EPA 8276
Batch ID: P328221

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	104	106	P/P	48 - 121
Toxaphene	99.0	110	P/P	43 - 135

Reference Method: EPA 8321B
Batch ID: P328334

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	81.4		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P328335

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Glyphosate	103		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P328371

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pyraclostrobin	88.0		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-97
 Batch ID: P328660

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	95 - 108

Reference Method: SM 2320 B-97
 Batch ID: P328661

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

Reference Method: SM 4500 F-C-97
 Batch ID: P328819

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.9		P	92 - 103

Reference Method: SM 5310 B-00
 Batch ID: P328860

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.4		P	85 - 115

Reference Method: USGS O-2060-01
 Batch ID: P328267

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	114		P	40 - 150
Acetaminophen	126		P	30 - 150
Bentazon	94.3		P	40 - 150
Carbamazepine	125		P	40 - 150
Diuron	128		P	40 - 150
Fenuron	128		P	40 - 150
Fluridone	127		P	40 - 150
Imidacloprid	118		P	40 - 160
Linuron	129		P	40 - 150
MCP	109		P	40 - 150
Primidone	117		P	40 - 150
Triclopyr	115		P	40 - 150

Reference Method: USGS O-2060-01
 Batch ID: P328373

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	97.2		P	40 - 150
Acetaminophen	134		P	30 - 150
Bentazon	94.8		P	40 - 150
Carbamazepine	118		P	40 - 150
Diuron	105		P	40 - 150
Fenuron	97.2		P	40 - 150
Fluridone	102		P	40 - 150
Imidacloprid	72.5		P	40 - 160
Linuron	109		P	40 - 150
MCP	95.4		P	40 - 150
Primidone	102		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: USGS O-2060-01
 Batch ID: P328373

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Triclopyr	83.5		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
 Batch ID: P328477

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1912326	Calcium	107		P	80 - 120
1912326	Iron	112		P	80 - 120
1912326	Magnesium	107		P	80 - 120
1912326	Potassium	99.9		P	80 - 120
1912326	Sodium	103		P	80 - 120
1912326	Zinc	107		P	80 - 120
1912663	Calcium	108	106	P/P	80 - 120
1912663	Iron	111	111	P/P	80 - 120
1912663	Magnesium	111	110	P/P	80 - 120
1912663	Potassium	107	106	P/P	80 - 120
1912663	Sodium	105		P	80 - 120
1912663	Zinc	110	109	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
 Batch ID: P328477

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1912326	Arsenic	106		P	80 - 120
1912326	Cadmium	107		P	80 - 120
1912326	Chromium	102		P	80 - 120
1912326	Copper	100		P	80 - 120
1912326	Lead	104		P	80 - 120
1912326	Nickel	102		P	80 - 120
1912326	Silver	104		P	80 - 120
1912663	Arsenic	107	108	P/P	80 - 120
1912663	Cadmium	109	109	P/P	80 - 120
1912663	Chromium	104	105	P/P	80 - 120
1912663	Copper	105	105	P/P	80 - 120
1912663	Lead	106	106	P/P	80 - 120
1912663	Nickel	106	107	P/P	80 - 120
1912663	Silver	106	107	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P328455

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1912442	Chloride	96.4		P	90 - 110
1912443	Chloride	107		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P328587

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1912640	Ammonia-N	104	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P328562

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1912639	Kjeldahl Nitrogen	101	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P328458

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1912638	NO2NO3-N	95.4	95.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P328695

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1912683	Total-P	94.2	95.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P328379

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1912643	O-Phosphate-P	98.5	98.3	P/P	90 - 110

Reference Method: EPA 8270D
Batch ID: P328221

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1911855	Aldrin	67.9	65.7	P/P	22 - 97.0
1911855	Alpha-BHC	91.3	90.0	P/P	43 - 132
1911855	Alpha-Chlordane	85.2	87.5	P/P	36 - 126
1911855	Beta-BHC	93.1	102	P/P	41 - 150
1911855	Carbophenothion	117	116	P/P	13 - 196
1911855	Chlorothalonil	96.4	96.2	P/P	10 - 266
1911855	Cypermethrin	119	119	P/P	37 - 161
1911855	DDD-p,p'	94.8	96.4	P/P	44 - 131
1911855	DDE-p,p'	88.6	88.0	P/P	32 - 127
1911855	DDT-p,p'	99.0	95.1	P/P	45 - 116
1911855	Delta-BHC	145	147	P/P	50 - 201
1911855	Dicofol	51.5	57.3	P/P	10 - 100
1911855	Dieldrin	93.7	94.1	P/P	39 - 142
1911855	Endosulfan I	90.5	92.2	P/P	51 - 139
1911855	Endosulfan II	105	108	P/P	49 - 155
1911855	Endosulfan Sulfate	90.3	94.1	P/P	54 - 136
1911855	Endrin	84.1	99.4	P/P	38 - 141
1911855	Endrin Aldehyde	76.5	83.3	P/P	14 - 152
1911855	Endrin Ketone	92.9	101	P/P	60 - 128
1911855	Gamma-BHC	113	97.4	P/P	48 - 157
1911855	Gamma-Chlordane	87.4	89.6	P/P	35 - 123
1911855	Heptachlor	84.4	80.7	P/P	25 - 112

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D

Batch ID: P328221

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1911855	Heptachlor Epoxide	98.6	100	P/P	48 - 125
1911855	Methoxychlor	115	110	P/P	52 - 127
1911855	Mirex	83.8	85.0	P/P	25 - 108
1911855	Permethrin	104	103	P/P	46 - 133
1911855	Trifluralin	150	158	P/P	29 - 254

Reference Method: EPA 8270D

Batch ID: P328497

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1912796	Acetochlor	71.2	72.1	F/F	74 - 123
1912796	Alachlor	75.8	74.2	P/P	73 - 124
1912796	Ametryn	65.2	63.5	P/P	56 - 149
1912796	Atrazine	82.3	85.3	P/P	73 - 124
1912796	Atrazine Desethyl	191	168	F/F	12 - 103
1912796	Azinphos Methyl	67.8	68.3	P/P	60 - 202
1912796	Bromacil	76.8	68.7	P/P	42 - 133
1912796	Butylate	15.5	22.4	P/P	10 - 85.0
1912796	Chlorpyrifos Ethyl	74.0	77.5	P/P	53 - 113
1912796	Chlorpyrifos Methyl	74.7	76.7	P/P	40 - 115
1912796	Cyanazine	161	177	P/P	22 - 210
1912796	Demeton	70.8	71.5	P/P	17 - 149
1912796	Diazinon	82.9	84.1	P/P	72 - 124
1912796	Disulfoton	93.8	91.8	P/P	43 - 139
1912796	EPTC	14.1	22.1	P/P	10 - 86.0
1912796	Ethion	80.6	80.2	P/P	65 - 131
1912796	Ethoprop	77.1	81.8	P/P	59 - 110
1912796	Fenamiphos	81.4	83.5	P/P	57 - 138
1912796	Fipronil	79.4	79.6	P/P	40 - 130
1912796	Fipronil Sulfide	75.0	72.9	P/P	36 - 128
1912796	Fipronil Sulfone	68.8	68.9	P/P	16 - 145
1912796	Fonofos	77.2	81.4	P/P	60 - 112
1912796	Hexazinone	83.4	84.9	P/P	69 - 142
1912796	Malathion	82.0	80.8	P/P	68 - 132
1912796	Metaxyl	68.3	67.4	P/P	66 - 118
1912796	Metolachlor	72.0	76.3	P/P	71 - 124
1912796	Metribuzin	172	177	F/F	61 - 140
1912796	Mevinphos	73.0	77.3	P/P	38 - 130
1912796	Molinate	34.7	40.2	P/P	23 - 99.0
1912796	Norflurazon	73.1	73.4	P/P	39 - 139
1912796	Parathion Ethyl	79.1	81.8	P/P	75 - 111
1912796	Parathion Methyl	86.8	86.9	P/P	64 - 130
1912796	Pendimethalin	83.5	85.0	P/P	26 - 173
1912796	Phorate	90.0	93.4	P/P	43 - 127
1912796	Prometon	77.5	77.0	P/P	50 - 144
1912796	Prometryn	70.2	68.2	P/F	69 - 126
1912796	Simazine	89.2	89.7	P/P	51 - 152
1912796	Terbufos	82.4	86.4	P/P	54 - 125
1912796	Terbutylazine	79.0	79.2	P/P	76 - 113

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8276
Batch ID: P328221

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1912431	Chlordane	99.5	108	P/P	44 - 134
1912431	Toxaphene	106	128	P/P	36 - 147

Reference Method: EPA 8321B
Batch ID: P328334

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1912610	Sucralose	81.9	94.2	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P328335

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1912651	Glyphosate	100	104	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P328371

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1912650	Pyraclostrobin	83.0	83.0	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P328819

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1912682	Fluoride	104	99.1	P/P	91 - 105

Reference Method: USGS O-2060-01
Batch ID: P328267

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1911688	2,4-D	125	110	P/P	40 - 150
1911688	Acetaminophen	114	96.4	P/P	30 - 150
1911688	Bentazon	71.5	86.8	P/P	40 - 150
1911688	Diuron	92.5	97.0	P/P	40 - 150
1911688	Fenuron	99.9	88.6	P/P	40 - 150
1911688	Fluridone	78.1	75.8	P/P	40 - 150
1911688	Linuron	127	127	P/P	40 - 150
1911688	MCP	133	120	P/P	40 - 150
1911688	Primidone	129	118	P/P	40 - 150
1911688	Triclopyr	115	107	P/P	40 - 150

Reference Method: USGS O-2060-01
Batch ID: P328373

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1912651	2,4-D	101	114	P/P	40 - 150
1912651	Acetaminophen	113	106	P/P	30 - 150
1912651	Bentazon	85.2	84.1	P/P	40 - 150
1912651	Carbamazepine	137	130	P/P	40 - 150
1912651	Fenuron	87.8	87.0	P/P	40 - 150
1912651	Fluridone	55.9	83.1	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: USGS O-2060-01
 Batch ID: P328373

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1912651	Imidacloprid	157	172	P/F	40 - 160
1912651	Linuron	95.9	111	P/P	40 - 150
1912651	MCCP	104	103	P/P	40 - 150
1912651	Primidone	106	94.0	P/P	40 - 150
1912651	Triclopyr	101	91.5	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P328429

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912387	Turbidity	1.71	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P328430

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912636	Turbidity	4.42	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
 Batch ID: P328477

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912663	Calcium	0.717	Spike	P	0 - 20
1912663	Iron	0.327	Spike	P	0 - 20
1912663	Magnesium	0.236	Spike	P	0 - 20
1912663	Potassium	0.593	Spike	P	0 - 20
1912663	Sodium	0.105	Spike	P	0 - 20
1912663	Zinc	0.901	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
 Batch ID: P328477

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912663	Arsenic	0.625	Spike	P	0 - 20
1912663	Cadmium	0.190	Spike	P	0 - 20
1912663	Chromium	0.285	Spike	P	0 - 20
1912663	Copper	0.440	Spike	P	0 - 20
1912663	Lead	0.419	Spike	P	0 - 20
1912663	Nickel	0.860	Spike	P	0 - 20
1912663	Silver	0.256	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P328455

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912443	Chloride	2.42	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P328459

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912443	Sulfate	2.25	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P328587

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912640	Ammonia-N	0.488	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P328562

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912639	Kjeldahl Nitrogen	0.0707	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P328458

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912638	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P328695

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912683	Total-P	0.958	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P328379

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912643	O-Phosphate-P	0.203	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P328221

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1911855	Aldrin	3.25	Spike	P	0 - 30
1911855	Alpha-BHC	1.38	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P328221

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1911855	Alpha-Chlordane	2.74	Spike	P	0 - 30
1911855	Beta-BHC	9.10	Spike	P	0 - 30
1911855	Carbophenothion	1.24	Spike	P	0 - 30
1911855	Chlorothalonil	0.217	Spike	P	0 - 30
1911855	Cypermethrin	0.0747	Spike	P	0 - 30
1911855	DDD-p,p'	1.62	Spike	P	0 - 30
1911855	DDE-p,p'	0.741	Spike	P	0 - 30
1911855	DDT-p,p'	4.04	Spike	P	0 - 30
1911855	Delta-BHC	1.31	Spike	P	0 - 30
1911855	Dicofol	10.8	Spike	P	0 - 30
1911855	Dieldrin	0.423	Spike	P	0 - 30
1911855	Endosulfan I	1.86	Spike	P	0 - 30
1911855	Endosulfan II	3.35	Spike	P	0 - 30
1911855	Endosulfan Sulfate	4.13	Spike	P	0 - 30
1911855	Endrin	16.6	Spike	P	0 - 30
1911855	Endrin Aldehyde	8.57	Spike	P	0 - 30
1911855	Endrin Ketone	8.50	Spike	P	0 - 30
1911855	Gamma-BHC	14.9	Spike	P	0 - 30
1911855	Gamma-Chlordane	2.51	Spike	P	0 - 30
1911855	Heptachlor	4.50	Spike	P	0 - 30
1911855	Heptachlor Epoxide	1.45	Spike	P	0 - 30
1911855	Methoxychlor	4.68	Spike	P	0 - 30
1911855	Mirex	1.46	Spike	P	0 - 30
1911855	Permethrin	1.12	Spike	P	0 - 30
1911855	Trifluralin	4.86	Spike	P	0 - 30
LFB	Aldrin	5.22	LCS	P	0 - 30
LFB	Alpha-BHC	0.800	LCS	P	0 - 30
LFB	Alpha-Chlordane	1.42	LCS	P	0 - 30
LFB	Beta-BHC	8.73	LCS	P	0 - 30
LFB	Carbophenothion	8.09	LCS	P	0 - 30
LFB	Chlorothalonil	19.2	LCS	P	0 - 30
LFB	Cypermethrin	15.9	LCS	P	0 - 30
LFB	DDD-p,p'	0.633	LCS	P	0 - 30
LFB	DDE-p,p'	0.821	LCS	P	0 - 30
LFB	DDT-p,p'	2.73	LCS	P	0 - 30
LFB	Delta-BHC	7.01	LCS	P	0 - 30
LFB	Dicofol	5.91	LCS	P	0 - 30
LFB	Dieldrin	0.958	LCS	P	0 - 30
LFB	Endosulfan I	3.58	LCS	P	0 - 30
LFB	Endosulfan II	7.63	LCS	P	0 - 30
LFB	Endosulfan Sulfate	3.89	LCS	P	0 - 30
LFB	Endrin	9.83	LCS	P	0 - 30
LFB	Endrin Aldehyde	8.13	LCS	P	0 - 30
LFB	Endrin Ketone	4.74	LCS	P	0 - 30
LFB	Gamma-BHC	3.74	LCS	P	0 - 30
LFB	Gamma-Chlordane	2.86	LCS	P	0 - 30
LFB	Heptachlor	0.287	LCS	P	0 - 30
LFB	Heptachlor Epoxide	3.44	LCS	P	0 - 30
LFB	Methoxychlor	1.56	LCS	P	0 - 30
LFB	Mirex	0.664	LCS	P	0 - 30
LFB	Permethrin	6.16	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P328221

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Trifluralin	4.25	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P328497

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912796	Acetochlor	1.33	Spike	P	0 - 30
1912796	Alachlor	2.03	Spike	P	0 - 30
1912796	Ametryn	2.60	Spike	P	0 - 30
1912796	Atrazine	3.27	Spike	P	0 - 30
1912796	Atrazine Desethyl	13.1	Spike	P	0 - 30
1912796	Azinphos Methyl	0.684	Spike	P	0 - 30
1912796	Bromacil	11.2	Spike	P	0 - 30
1912796	Butylate	36.3	Spike	F	0 - 30
1912796	Chlorpyrifos Ethyl	4.06	Spike	P	0 - 30
1912796	Chlorpyrifos Methyl	2.60	Spike	P	0 - 30
1912796	Cyanazine	9.74	Spike	P	0 - 30
1912796	Demeton	0.987	Spike	P	0 - 30
1912796	Diazinon	1.46	Spike	P	0 - 30
1912796	Disulfoton	2.18	Spike	P	0 - 30
1912796	EPTC	44.1	Spike	F	0 - 30
1912796	Ethion	0.510	Spike	P	0 - 30
1912796	Ethoprop	5.94	Spike	P	0 - 30
1912796	Fenamiphos	2.53	Spike	P	0 - 30
1912796	Fipronil	0.183	Spike	P	0 - 30
1912796	Fipronil Sulfide	2.87	Spike	P	0 - 30
1912796	Fipronil Sulfone	0.212	Spike	P	0 - 30
1912796	Fonofos	5.29	Spike	P	0 - 30
1912796	Hexazinone	1.80	Spike	P	0 - 30
1912796	Malathion	1.03	Spike	P	0 - 30
1912796	Metalaxyl	1.20	Spike	P	0 - 30
1912796	Metolachlor	5.37	Spike	P	0 - 30
1912796	Metribuzin	2.53	Spike	P	0 - 30
1912796	Mevinphos	5.66	Spike	P	0 - 30
1912796	Molinate	14.7	Spike	P	0 - 30
1912796	Norflurazon	0.363	Spike	P	0 - 30
1912796	Parathion Ethyl	3.27	Spike	P	0 - 30
1912796	Parathion Methyl	0.112	Spike	P	0 - 30
1912796	Pendimethalin	1.70	Spike	P	0 - 30
1912796	Phorate	3.73	Spike	P	0 - 30
1912796	Prometon	0.538	Spike	P	0 - 30
1912796	Prometryn	2.97	Spike	P	0 - 30
1912796	Simazine	0.605	Spike	P	0 - 30
1912796	Terbufos	4.79	Spike	P	0 - 30
1912796	Terbuthylazine	0.337	Spike	P	0 - 30
LFB	Acetochlor	2.33	LCS	P	0 - 30
LFB	Alachlor	0.0572	LCS	P	0 - 30
LFB	Ametryn	17.9	LCS	P	0 - 30
LFB	Atrazine	1.29	LCS	P	0 - 30
LFB	Atrazine Desethyl	4.06	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P328497

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Azinphos Methyl	12.9	LCS	P	0 - 30
LFB	Bromacil	6.89	LCS	P	0 - 30
LFB	Butylate	21.6	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	4.99	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	3.06	LCS	P	0 - 30
LFB	Cyanazine	20.1	LCS	P	0 - 30
LFB	Demeton	6.43	LCS	P	0 - 30
LFB	Diazinon	5.05	LCS	P	0 - 30
LFB	Disulfoton	4.58	LCS	P	0 - 30
LFB	EPTC	30.0	LCS	F	0 - 30
LFB	Ethion	2.09	LCS	P	0 - 30
LFB	Ethoprop	6.29	LCS	P	0 - 30
LFB	Fenamiphos	8.10	LCS	P	0 - 30
LFB	Fipronil	1.79	LCS	P	0 - 30
LFB	Fipronil Sulfide	7.43	LCS	P	0 - 30
LFB	Fipronil Sulfone	7.29	LCS	P	0 - 30
LFB	Fonofos	4.13	LCS	P	0 - 30
LFB	Hexazinone	1.04	LCS	P	0 - 30
LFB	Malathion	0.384	LCS	P	0 - 30
LFB	Metalaxyl	0.757	LCS	P	0 - 30
LFB	Metolachlor	1.54	LCS	P	0 - 30
LFB	Metribuzin	24.7	LCS	P	0 - 30
LFB	Mevinphos	3.55	LCS	P	0 - 30
LFB	Molinate	14.0	LCS	P	0 - 30
LFB	Norflurazon	7.03	LCS	P	0 - 30
LFB	Parathion Ethyl	0.177	LCS	P	0 - 30
LFB	Parathion Methyl	2.38	LCS	P	0 - 30
LFB	Pendimethalin	1.43	LCS	P	0 - 30
LFB	Phorate	13.4	LCS	P	0 - 30
LFB	Prometon	4.36	LCS	P	0 - 30
LFB	Prometryn	3.84	LCS	P	0 - 30
LFB	Simazine	4.52	LCS	P	0 - 30
LFB	Terbufos	6.00	LCS	P	0 - 30
LFB	Terbutylazine	0.383	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P328221

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912431	Chlordane	8.53	Spike	P	0 - 30
1912431	Toxaphene	18.6	Spike	P	0 - 30
LFB	Chlordane	2.16	LCS	P	0 - 30
LFB	Toxaphene	10.8	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P328334

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912610	Sucralose	13.9	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P328335

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912651	Glyphosate	3.25	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P328371

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912650	Pyraclostrobin	0.0	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P328292

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912636	Color (true)	0.238	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P328660

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912708	Total Alkalinity	0.185	Sample	P	0 - 4.8

Reference Method: SM 2320 B-97
Batch ID: P328661

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912682	Total Alkalinity	0.253	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P328641

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912443	TDS	4.55	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P328819

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912682	Fluoride	2.98	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P328860

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912638	Organic Carbon	0.416	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: USGS O-2060-01
Batch ID: P328267

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1911688	2,4-D	11.4	Spike	P	0 - 30
1911688	Acetaminophen	17.0	Spike	P	0 - 30
1911688	Bentazon	16.1	Spike	P	0 - 30
1911688	Carbamazepine	8.58	Spike	P	0 - 30
1911688	Diuron	4.14	Spike	P	0 - 30
1911688	Fenuron	12.0	Spike	P	0 - 30
1911688	Fluridone	2.82	Spike	P	0 - 30
1911688	Imidacloprid	8.36	Spike	P	0 - 30
1911688	Linuron	0.567	Spike	P	0 - 30
1911688	MCP	10.2	Spike	P	0 - 30
1911688	Primidone	4.59	Spike	P	0 - 30
1911688	Triclopyr	7.43	Spike	P	0 - 30

Reference Method: USGS O-2060-01
Batch ID: P328373

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912651	2,4-D	6.78	Spike	P	0 - 30
1912651	Acetaminophen	5.91	Spike	P	0 - 30
1912651	Bentazon	1.30	Spike	P	0 - 30
1912651	Carbamazepine	5.59	Spike	P	0 - 30
1912651	Diuron	6.58	Spike	P	0 - 30
1912651	Fenuron	0.824	Spike	P	0 - 30
1912651	Fluridone	39.1	Spike	F	0 - 30
1912651	Imidacloprid	9.24	Spike	P	0 - 30
1912651	Linuron	14.3	Spike	P	0 - 30
1912651	MCP	1.64	Spike	P	0 - 30
1912651	Primidone	11.9	Spike	P	0 - 30
1912651	Triclopyr	9.39	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: 1912650
Field Sample ID: G1TLHR0029-2017-01

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	124	P	30 - 160
EPA 8321B	Acetaminophen-d4	124	P	30 - 160
EPA 8321B	Carbamazepine-d10	89.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	89.6	P	30 - 160
EPA 8321B	Diuron-d6	61.3	P	30 - 160
EPA 8321B	Diuron-d6	129	P	30 - 160
EPA 8321B	Diuron-d6	61.3	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	84.8	P	40 - 150
EPA 8321B	Primidone-d5	56.3	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 1912650

Field Sample ID: G1TLHR0029-2017-01

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Primidone-d5	56.3	P	30 - 160
EPA 8321B	Sucralose-d6	59.0	P	40 - 160
USGS O-2060-01	2,4-D-d3	113	P	40 - 160
USGS O-2060-01	Acetaminophen-d4	124	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	124	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	89.6	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	89.6	P	30 - 160
USGS O-2060-01	Diuron-d6	61.3	P	30 - 160
USGS O-2060-01	Diuron-d6	129	P	30 - 160
USGS O-2060-01	Diuron-d6	61.3	P	30 - 160
USGS O-2060-01	Primidone-d5	56.3	P	30 - 160
USGS O-2060-01	Primidone-d5	56.3	P	30 - 160

Lab Sample ID: 1912651

Field Sample ID: G1TLHR0048-2017-02

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	103	P	30 - 160
EPA 8321B	Carbamazepine-d10	158	P	30 - 160
EPA 8321B	Diuron-d6	108	P	30 - 160
EPA 8321B	Diuron-d6	110	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	96.9	P	40 - 150
EPA 8321B	Primidone-d5	92.0	P	30 - 160
EPA 8321B	Sucralose-d6	89.6	P	40 - 160
USGS O-2060-01	2,4-D-d3	122	P	40 - 160
USGS O-2060-01	Acetaminophen-d4	103	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	158	P	30 - 160
USGS O-2060-01	Diuron-d6	108	P	30 - 160
USGS O-2060-01	Diuron-d6	110	P	30 - 160
USGS O-2060-01	Primidone-d5	92.0	P	30 - 160

Lab Sample ID: 1912652

Field Sample ID: G1TLHR0035-2017-02

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	91.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	91.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	108	P	30 - 160
EPA 8321B	Carbamazepine-d10	108	P	30 - 160
EPA 8321B	Diuron-d6	83.5	P	30 - 160
EPA 8321B	Diuron-d6	83.5	P	30 - 160
EPA 8321B	Diuron-d6	107	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	75.6	P	40 - 150
EPA 8321B	Primidone-d5	84.1	P	30 - 160
EPA 8321B	Primidone-d5	84.1	P	30 - 160
EPA 8321B	Sucralose-d6	81.0	P	40 - 160
USGS O-2060-01	2,4-D-d3	135	P	40 - 160
USGS O-2060-01	Acetaminophen-d4	91.5	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	91.5	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	108	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	108	P	30 - 160
USGS O-2060-01	Diuron-d6	83.5	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 1912652

Field Sample ID: G1TLHR0035-2017-02

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
USGS O-2060-01	Diuron-d6	83.5	P	30 - 160
USGS O-2060-01	Diuron-d6	107	P	30 - 160
USGS O-2060-01	Primidone-d5	84.1	P	30 - 160
USGS O-2060-01	Primidone-d5	84.1	P	30 - 160

Lab Sample ID: 1912653

Field Sample ID: g1tlhr0037-2017-02

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	123	P	30 - 160
EPA 8321B	Acetaminophen-d4	123	P	30 - 160
EPA 8321B	Carbamazepine-d10	103	P	30 - 160
EPA 8321B	Carbamazepine-d10	103	P	30 - 160
EPA 8321B	Diuron-d6	65.0	P	30 - 160
EPA 8321B	Diuron-d6	65.0	P	30 - 160
EPA 8321B	Diuron-d6	107	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	81.8	P	40 - 150
EPA 8321B	Primidone-d5	85.9	P	30 - 160
EPA 8321B	Primidone-d5	85.9	P	30 - 160
EPA 8321B	Sucralose-d6	70.6	P	40 - 160
USGS O-2060-01	2,4-D-d3	137	P	40 - 160
USGS O-2060-01	Acetaminophen-d4	123	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	123	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	103	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	103	P	30 - 160
USGS O-2060-01	Diuron-d6	65.0	P	30 - 160
USGS O-2060-01	Diuron-d6	65.0	P	30 - 160
USGS O-2060-01	Diuron-d6	107	P	30 - 160
USGS O-2060-01	Primidone-d5	85.9	P	30 - 160
USGS O-2060-01	Primidone-d5	85.9	P	30 - 160

Lab Sample ID: 1912654

Field Sample ID: G1TLHR0029-2017-01

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	61.1	P	39 - 118
EPA 8270D	Tetrachloro-m-xylene	44.3	P	32 - 103
EPA 8276	Decachlorobiphenyl	45.4	P	31 - 100

Lab Sample ID: 1912655

Field Sample ID: G1TLHR0048-2017-02

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	61.5	P	39 - 118
EPA 8270D	Tetrachloro-m-xylene	41.6	P	32 - 103
EPA 8276	Decachlorobiphenyl	50.5	P	31 - 100

Lab Sample ID: 1912656

Field Sample ID: G1TLHR0035-2017-02

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	74.4	P	39 - 118

Quality Assurance Report Surrogates

Lab Sample ID: 1912656

Field Sample ID: G1TLHR0035-2017-02

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Tetrachloro-m-xylene	50.3	P	32 - 103
EPA 8276	Decachlorobiphenyl	49.4	P	31 - 100

Lab Sample ID: 1912657

Field Sample ID: g1tlhr0037-2017-02

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	67.3	P	39 - 118
EPA 8270D	Tetrachloro-m-xylene	52.1	P	32 - 103
EPA 8276	Decachlorobiphenyl	52.3	P	31 - 100

Lab Sample ID: 1912658

Field Sample ID: G1TLHR0029-2017-01

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	59.8	P	53 - 135
EPA 8270D	Simazine-d10	78.6	P	71 - 126

Lab Sample ID: 1912659

Field Sample ID: G1TLHR0048-2017-02

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	73.6	P	53 - 135
EPA 8270D	Simazine-d10	94.3	P	71 - 126

Lab Sample ID: 1912660

Field Sample ID: G1TLHR0035-2017-02

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	63.7	P	53 - 135
EPA 8270D	Simazine-d10	86.8	P	71 - 126

Lab Sample ID: 1912661

Field Sample ID: g1tlhr0037-2017-02

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	62.8	P	53 - 135
EPA 8270D	Simazine-d10	86.2	P	71 - 126

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B

Run ID: A77644

Included Lab Sample IDs: 1912634, 1912635, 1912636, 1912637

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	103	P/P	85 - 115
Color (true)	104	102	P/P	85 - 115
Color (true)	93.9	104	P/P	85 - 115

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A77662

Included Lab Sample IDs: 1912642, 1912643, 1912644, 1912645

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.3	98.1	P/P	90 - 110
O-Phosphate-P	99.3	99.8	P/P	90 - 110
O-Phosphate-P	99.8	101	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A77690

Included Lab Sample IDs: 1912634, 1912635, 1912636, 1912637

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A77691

Included Lab Sample IDs: 1912638, 1912639, 1912640, 1912641

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A77695

Included Lab Sample IDs: 1912634, 1912635, 1912636, 1912637

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	104	109	P/P	90 - 110
Chloride	109	106	P/P	90 - 110
Sulfate	103	109	P/P	90 - 110
Sulfate	109	106	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A77733

Included Lab Sample IDs: 1912662, 1912663, 1912664, 1912665

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	104	103	P/P	90 - 110
Iron	104	105	P/P	90 - 110
Magnesium	103	104	P/P	90 - 110
Potassium	98.4	98.7	P/P	90 - 110
Sodium	98.5	98.6	P/P	90 - 110
Zinc	103	104	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A77734

Included Lab Sample IDs: 1912662, 1912663, 1912664, 1912665

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	101	98.8	P/P	90 - 110
Cadmium	101	99.5	P/P	90 - 110
Chromium	98.6	94.9	P/P	90 - 110
Copper	100	98.0	P/P	90 - 110
Lead	99.5	97.4	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A77734

Included Lab Sample IDs: 1912662, 1912663, 1912664, 1912665

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Nickel	100	98.2	P/P	90 - 110
Silver	97.8	95.7	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A77738

Included Lab Sample IDs: 1912654, 1912655, 1912656, 1912657

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	99.1		P	80 - 120
Toxaphene	105		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A77748

Included Lab Sample IDs: 1912638, 1912639, 1912640, 1912641

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	103	P/P	90 - 110
Ammonia-N	103	102	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A77775

Included Lab Sample IDs: 1912650, 1912651, 1912652, 1912653

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Glyphosate	91.7	86.5	P/P	70 - 160
Glyphosate	96.6	91.7	P/P	70 - 160

Reference Method: SM 2320 B-97

Run ID: A77776

Included Lab Sample IDs: 1912634, 1912635, 1912636, 1912637

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

Reference Method: EPA 8321B

Run ID: A77777

Included Lab Sample IDs: 1912650, 1912651, 1912652, 1912653

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	114	140	P/P	60 - 160
Sucralose	97.3	99.1	P/P	60 - 160

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A77782

Included Lab Sample IDs: 1912638, 1912639, 1912640, 1912641

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A77785

Included Lab Sample IDs: 1912650, 1912651, 1912652, 1912653

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraclostrobin	79.0	87.8	P/P	60 - 150
Pyraclostrobin	87.8	115	P/P	60 - 150

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A77814

Included Lab Sample IDs: 1912640, 1912641

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.5	99.2	P/P	90 - 110
Total-P	99.2	97.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A77827

Included Lab Sample IDs: 1912638, 1912639

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

Reference Method: EPA 8270D

Run ID: A77831

Included Lab Sample IDs: 1912654, 1912655, 1912656

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	97.6		P	80 - 120
Alpha-BHC	98.5		P	80 - 120
Alpha-Chlordane	99.5		P	80 - 120
Beta-BHC	104		P	80 - 120
Carbophenothion	114		P	80 - 120
Chlorothalonil	105		P	80 - 120
Cypermethrin	94.5		P	80 - 120
DDD-p,p'	103		P	80 - 120
DDE-p,p'	102		P	80 - 120
DDT-p,p'	106		P	80 - 120
Delta-BHC	108		P	80 - 120
Dicofol	94.5		P	80 - 120
Dieldrin	104		P	80 - 120
Endosulfan I	96.6		P	80 - 120
Endosulfan II	100		P	80 - 120
Endosulfan Sulfate	98.4		P	80 - 120
Endrin	97.8		P	80 - 120
Endrin Aldehyde	98.2		P	80 - 120
Endrin Ketone	97.5		P	80 - 120
Gamma-BHC	101		P	80 - 120
Gamma-Chlordane	102		P	80 - 120
Heptachlor	105		P	80 - 120
Heptachlor Epoxide	101		P	80 - 120
Methoxychlor	107		P	80 - 120
Mirex	97.1		P	80 - 120
Permethrin	97.0		P	80 - 120
Trifluralin	104		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: SM 4500 F-C-97

Run ID: A77832

Included Lab Sample IDs: 1912634, 1912635, 1912636, 1912637

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

Reference Method: EPA 8270D

Run ID: A77833

Included Lab Sample IDs: 1912657

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	95.6		P	80 - 120
Alpha-BHC	98.0		P	80 - 120
Alpha-Chlordane	94.4		P	80 - 120
Beta-BHC	102		P	80 - 120
Carbophenothion	87.1		P	80 - 120
Chlorothalonil	98.0		P	80 - 120
Cypermethrin	93.3		P	80 - 120
DDD-p,p'	96.3		P	80 - 120
DDE-p,p'	99.4		P	80 - 120
DDT-p,p'	107		P	80 - 120
Delta-BHC	101		P	80 - 120
Dicofol	95.0		P	80 - 120
Dieldrin	98.3		P	80 - 120
Endosulfan I	96.1		P	80 - 120
Endosulfan II	95.4		P	80 - 120
Endosulfan Sulfate	94.3		P	80 - 120
Endrin	95.3		P	80 - 120
Endrin Aldehyde	93.5		P	80 - 120
Endrin Ketone	95.6		P	80 - 120
Gamma-BHC	100		P	80 - 120
Gamma-Chlordane	97.7		P	80 - 120
Heptachlor	93.7		P	80 - 120
Heptachlor Epoxide	96.3		P	80 - 120
Methoxychlor	107		P	80 - 120
Mirex	101		P	80 - 120
Permethrin	96.6		P	80 - 120
Trifluralin	102		P	80 - 120

Reference Method: SM 5310 B-00

Run ID: A77848

Included Lab Sample IDs: 1912638, 1912639, 1912640, 1912641

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.0	98.9	P/P	90 - 110

Reference Method: USGS O-2060-01

Run ID: A77880

Included Lab Sample IDs: 1912650, 1912651, 1912652, 1912653

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	101	83.0	P/P	50 - 150
2,4-D	108	101	P/P	50 - 150
2,4-D	83.2	108	P/P	50 - 150
Acetaminophen	103	115	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: USGS O-2060-01

Run ID: A77880

Included Lab Sample IDs: 1912650, 1912651, 1912652, 1912653

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetaminophen	90.1	103	P/P	60 - 150
Acetaminophen	97.2	90.1	P/P	60 - 150
Bentazon	100	80.6	P/P	50 - 150
Bentazon	80.6	82.5	P/P	50 - 150
Bentazon	82.5	77.6	P/P	50 - 150
Carbamazepine	104	97.2	P/P	60 - 150
Carbamazepine	82.9	104	P/P	60 - 150
Carbamazepine	97.2	112	P/P	60 - 150
Diuron	102	102	P/P	60 - 150
Diuron	81.9	96.0	P/P	60 - 150
Fenuron	104	99.5	P/P	60 - 150
Fenuron	84.7	91.3	P/P	60 - 150
Fenuron	91.3	104	P/P	60 - 150
Fluridone	103	78.0	P/P	60 - 160
Fluridone	113	110	P/P	60 - 160
Fluridone	78.0	113	P/P	60 - 160
Imidacloprid	72.4	85.1	P/P	60 - 150
Imidacloprid	85.1	92.8	P/P	60 - 150
Imidacloprid	92.8	88.2	P/P	60 - 150
Linuron	104	110	P/P	60 - 150
Linuron	89.4	104	P/P	60 - 150
Linuron	95.4	89.4	P/P	60 - 150
MCPP	105	90.6	P/P	50 - 150
MCPP	85.8	91.5	P/P	50 - 150
MCPP	91.5	105	P/P	50 - 150
Primidone	112	117	P/P	60 - 150
Primidone	69.6	96.1	P/P	60 - 150
Primidone	96.1	112	P/P	60 - 150
Triclopyr	114	95.5	P/P	50 - 150
Triclopyr	79.4	114	P/P	50 - 150
Triclopyr	84.7	79.4	P/P	50 - 150

Reference Method: USGS O-2060-01

Run ID: A78009

Included Lab Sample IDs: 1912651

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Diuron	95.0	93.5	P/P	60 - 150

Reference Method: EPA 8270D

Run ID: A78048

Included Lab Sample IDs: 1912658, 1912659, 1912660, 1912661

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	105		P	80 - 120
Alachlor	107		P	80 - 120
Ametryn	103		P	80 - 120
Atrazine	102		P	80 - 120
Atrazine Desethyl	94.8		P	80 - 120
Azinphos Methyl	95.0		P	80 - 120
Bromacil	104		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A78048

Included Lab Sample IDs: 1912658, 1912659, 1912660, 1912661

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Butylate	104		P	80 - 120
Chlorpyrifos Ethyl	101		P	80 - 120
Chlorpyrifos Methyl	100		P	80 - 120
Cyanazine	90.8		P	80 - 120
Demeton	97.5		P	80 - 120
Diazinon	103		P	80 - 120
Disulfoton	96.1		P	80 - 120
EPTC	106		P	80 - 120
Ethion	101		P	80 - 120
Ethoprop	98.8		P	80 - 120
Fenamiphos	97.4		P	80 - 120
Fipronil	104		P	80 - 120
Fipronil Sulfide	100		P	80 - 120
Fipronil Sulfone	100		P	80 - 120
Fonofos	99.0		P	80 - 120
Hexazinone	101		P	80 - 120
Malathion	97.0		P	80 - 120
Metalaxyl	104		P	80 - 120
Metolachlor	109		P	80 - 120
Metribuzin	103		P	80 - 120
Mevinphos	99.4		P	80 - 120
Molinate	106		P	80 - 120
Norflurazon	103		P	80 - 120
Parathion Ethyl	96.1		P	80 - 120
Parathion Methyl	95.7		P	80 - 120
Pendimethalin	92.2		P	80 - 120
Phorate	97.2		P	80 - 120
Prometon	102		P	80 - 120
Prometryn	105		P	80 - 120
Simazine	101		P	80 - 120
Terbufos	98.0		P	80 - 120
Terbutylazine	101		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						1.71	
	Turbidity						4.42	
EPA 200.7 Rev. 4.4	Calcium	112	107	108	106			0.717
	Iron	112	112	111	111			0.327
	Magnesium	113	107	111	110			0.236
	Potassium	103	99.9	107	106			0.593
	Sodium	103	103	105				0.105
	Zinc	110	107	110	109			0.901

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			LCS	Precision	MS
								SMP	
EPA 200.8 Rev. 5.4	Arsenic	105		106	107	108			0.625
	Cadmium	107		107	109	109			0.190
	Chromium	103		102	104	105			0.285
	Copper	101		100	105	105			0.440
	Lead	103		104	106	106			0.419
	Nickel	104		102	106	107			0.860
	Silver	103		104	106	107			0.256
EPA 300.0 Rev. 2.1	Chloride	102		107	96.4			2.42	
	Sulfate	100						2.25	
EPA 350.1 Rev. 2.0	Ammonia-N	105		104	103				0.488
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105		101	101				0.0707
EPA 353.2 Rev. 2.0	NO2NO3-N	105		95.4	95.4				0.0
EPA 365.1 Rev. 2.0	Total-P	96.7		94.2	95.1				0.958
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.5		98.5	98.3				0.203
EPA 8270D	Acetochlor	87.8	85.7	71.2	72.1		2.33		1.33
	Alachlor	87.9	87.8	75.8	74.2		0.0572		2.03
	Aldrin	53.3	56.1	67.9	65.7		5.22		3.25
	Alpha-BHC	92.3	91.6	91.3	90.0		0.800		1.38
	Alpha-Chlordane	90.3	89.1	85.2	87.5		1.42		2.74
	Ametryn	70.7	84.6	65.2	63.5		17.9		2.60
	Atrazine	93.8	95.0	82.3	85.3		1.29		3.27
	Atrazine Desethyl	95.6	91.8	191	168		4.06		13.1
	Azinphos Methyl	85.4	97.2	67.8	68.3		12.9		0.684
	Beta-BHC	103	94.6	93.1	102		8.73		9.10
	Bromacil	86.8	81.1	76.8	68.7		6.89		11.2
	Butylate	54.3	43.7	15.5	22.4		21.6		36.3
	Carbophenothion	90.9	98.6	117	116		8.09		1.24
	Chlorothalonil	98.1	80.9	96.4	96.2		19.2		0.217
	Chlorpyrifos Ethyl	87.8	83.5	74.0	77.5		4.99		4.06
	Chlorpyrifos Methyl	88.3	85.6	74.7	76.7		3.06		2.60
	Cyanazine	193	236	161	177		20.1		9.74
	Cypermethrin	117	100	119	119		15.9		0.0747
	DDD-p,p'	101	101	94.8	96.4		0.633		1.62
	DDE-p,p'	90.8	91.6	88.6	88.0		0.821		0.741
	DDT-p,p'	100	97.7	99.0	95.1		2.73		4.04
	Delta-BHC	125	117	145	147		7.01		1.31
	Demeton	75.9	80.9	70.8	71.5		6.43		0.987
	Diazinon	94.7	90.0	82.9	84.1		5.05		1.46
	Dicofol	53.5	56.7	51.5	57.3		5.91		10.8
	Dieldrin	98.5	97.6	93.7	94.1		0.958		0.423
	Disulfoton	96.3	92.0	93.8	91.8		4.58		2.18
	Endosulfan I	96.9	93.5	90.5	92.2		3.58		1.86
	Endosulfan II	116	108	105	108		7.63		3.35
	Endosulfan Sulfate	110	106	90.3	94.1		3.89		4.13
	Endrin	106	96.1	84.1	99.4		9.83		16.6
	Endrin Aldehyde	102	94.1	76.5	83.3		8.13		8.57
	Endrin Ketone	103	97.8	92.9	101		4.74		8.50
	EPTC	42.5	57.6	14.1	22.1		30.0		44.1
	Ethion	91.4	93.3	80.6	80.2		2.09		0.510
	Ethoprop	87.0	81.7	77.1	81.8		6.29		5.94
	Fenamiphos	91.2	98.9	81.4	83.5		8.10		2.53
	Fipronil	91.1	92.7	79.4	79.6		1.79		0.183
	Fipronil Sulfide	84.5	91.0	75.0	72.9		7.43		2.87
	Fipronil Sulfone	79.5	85.5	68.8	68.9		7.29		0.212

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Fonofos	85.4	89.0	77.2	81.4	4.13	5.29
	Gamma-BHC	98.4	94.7	113	97.4	3.74	14.9
	Gamma-Chlordane	93.4	90.8	87.4	89.6	2.86	2.51
	Heptachlor	78.9	79.2	84.4	80.7	0.287	4.50
	Heptachlor Epoxide	93.9	90.7	98.6	100	3.44	1.45
	Hexazinone	87.5	88.5	83.4	84.9	1.04	1.80
	Malathion	90.4	90.7	82.0	80.8	0.384	1.03
	Metalaxyl	88.9	89.6	68.3	67.4	0.757	1.20
	Methoxychlor	104	102	115	110	1.56	4.68
	Metolachlor	90.4	89.1	72.0	76.3	1.54	5.37
	Metribuzin	115	148	172	177	24.7	2.53
	Mevinphos	79.0	81.9	73.0	77.3	3.55	5.66
	Mirex	82.9	83.4	83.8	85.0	0.664	1.46
	Molinate	53.1	61.1	34.7	40.2	14.0	14.7
	Norflurazon	88.8	82.8	73.1	73.4	7.03	0.363
	Parathion Ethyl	87.4	87.6	79.1	81.8	0.177	3.27
	Parathion Methyl	89.7	91.8	86.8	86.9	2.38	0.112
	Pendimethalin	85.3	86.5	83.5	85.0	1.43	1.70
	Permethrin	103	96.7	104	103	6.16	1.12
	Phorate	79.3	90.7	90.0	93.4	13.4	3.73
	Prometon	84.5	80.9	77.5	77.0	4.36	0.538
	Prometryn	89.5	86.1	70.2	68.2	3.84	2.97
	Simazine	96.8	92.6	89.2	89.7	4.52	0.605
	Terbufos	83.5	88.7	82.4	86.4	6.00	4.79
	Terbutylazine	88.5	88.8	79.0	79.2	0.383	0.337
	Trifluralin	142	136	150	158	4.25	4.86
EPA 8276	Chlordane	104	106	99.5	108	2.16	8.53
	Toxaphene	99.0	110	106	128	10.8	18.6
EPA 8321B	Glyphosate	103		100	104		3.25
	Pyraclostrobin	88.0		83.0	83.0		0.0
	Sucralose	81.4		81.9	94.2		13.9
SM 2120 B	Color (true)					0.238	
SM 2320 B-97	Total Alkalinity	103				0.185	
	Total Alkalinity	102				0.253	
SM 2540 C-97	TDS					4.55	
SM 4500 F-C-97	Fluoride	98.9		104	99.1		2.98
SM 5310 B-00	Organic Carbon	95.4					0.416
USGS O-2060-01	2,4-D	114		125	110		11.4
	2,4-D	97.2		101	114		6.78
	Acetaminophen	126		114	96.4		17.0
	Acetaminophen	134		113	106		5.91
	Bentazon	94.3		71.5	86.8		16.1
	Bentazon	94.8		85.2	84.1		1.30
	Carbamazepine	125					8.58
	Carbamazepine	118		137	130		5.59
	Diuron	128		92.5	97.0		4.14
	Diuron	105					6.58
	Fenuron	128		99.9	88.6		12.0
	Fenuron	97.2		87.8	87.0		0.824
	Fluridone	127		78.1	75.8		2.82
	Fluridone	102		55.9	83.1		39.1
	Imidacloprid	118					8.36
	Imidacloprid	72.5		157	172		9.24
	Linuron	129		127	127		0.567

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
USGS O-2060-01	Linuron	109	95.9	111		14.3
	MCP	109	133	120		10.2
	MCP	95.4	104	103		1.64
	Primidone	117	129	118		4.59
	Primidone	102	106	94.0		11.9
	Triclopyr	115	115	107		7.43
	Triclopyr	83.5	101	91.5		9.39

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1912634, 1912635, 1912636, 1912637
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1912662, 1912663, 1912664, 1912665
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1912662, 1912663, 1912664, 1912665
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1912634, 1912635, 1912636, 1912637
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1912634, 1912635, 1912636, 1912637
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1912638, 1912639, 1912640, 1912641
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1912638, 1912639, 1912640, 1912641
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1912638, 1912639, 1912640, 1912641
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1912638, 1912639, 1912640, 1912641
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1912642, 1912643, 1912644, 1912645
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	1912654, 1912655, 1912656, 1912657
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1912658, 1912659, 1912660, 1912661
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	1912654, 1912655, 1912656, 1912657
EPA 8321B / E31780	Glyphosate in water matrices by HPLC/MS/MS	1912650, 1912651, 1912652, 1912653
EPA 8321B / E31780	Pyraclostrobin in water matrices by HPLC/MS/MS	1912650, 1912651, 1912652, 1912653
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	1912650, 1912651, 1912652, 1912653
SM 2120 B / E31780	True Color measured at 450 nm	1912634, 1912635, 1912636, 1912637
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1912634, 1912635, 1912636, 1912637
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1912634, 1912635, 1912636, 1912637
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1912634, 1912635, 1912636, 1912637
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1912634, 1912635, 1912636, 1912637
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1912638, 1912639, 1912640, 1912641
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1912650, 1912651, 1912652, 1912653
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1912650, 1912651, 1912652, 1912653

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	07/11/2017			07/11/2017 18:06	DeAsia Armster	1912634, 1912635, 1912636, 1912637
EPA 200.7 Rev. 4.4	07/11/2017	07/13/2017	Elliott D. Healy	07/14/2017	Betina Topolski	1912662, 1912663, 1912664, 1912665
EPA 200.8 Rev. 5.4	07/11/2017	07/13/2017	Elliott D. Healy	07/14/2017	Nadine Brooks	1912662, 1912663, 1912664, 1912665
EPA 300.0 Rev. 2.1	07/11/2017			07/12/2017	Julia Storbeck	1912634, 1912635, 1912636, 1912637
EPA 350.1 Rev. 2.0	07/11/2017			07/14/2017	Sofia Elnemr	1912638, 1912639, 1912640, 1912641
EPA 351.2 Rev. 2.0	07/11/2017	07/17/2017	Adrian Shelby	07/18/2017	Joseph Suarez	1912638, 1912639, 1912640, 1912641
EPA 353.2 Rev. 2.0	07/11/2017			07/13/2017	Beverly Y. Sanders	1912638, 1912639, 1912640, 1912641
EPA 365.1 Rev. 2.0	07/11/2017	07/18/2017	Vijayalakshmi Reddy	07/19/2017	Lipi Saha	1912640, 1912641
	07/11/2017	07/18/2017	Vijayalakshmi Reddy	07/20/2017	Lipi Saha	1912638, 1912639
EPA 365.1 Rev. 2.0 dissolved	07/11/2017			07/12/2017 13:57	Lipi Saha	1912643
	07/11/2017			07/12/2017 14:12	Lipi Saha	1912642
	07/11/2017			07/12/2017 14:13	Lipi Saha	1912644
	07/11/2017			07/12/2017 14:52	Lipi Saha	1912645
EPA 8270D	07/11/2017	07/12/2017	Fe-Val Siddell	07/17/2017	Vandana T. Nagar	1912654, 1912655, 1912656
	07/11/2017	07/12/2017	Fe-Val Siddell	07/19/2017	Vandana T. Nagar	1912657
	07/11/2017	07/14/2017	John Kaba	07/26/2017	Marek Topolski	1912658, 1912659, 1912660, 1912661
EPA 8276	07/11/2017	07/12/2017	Fe-Val Siddell	07/14/2017	John P. Burgos	1912654, 1912655, 1912656, 1912657
EPA 8321B	07/11/2017	07/13/2017	Mohammad Ghaffari	07/14/2017	Mohammad Ghaffari	1912650, 1912651, 1912652, 1912653
	07/11/2017	07/17/2017	Julie Michelle Frank	07/17/2017	Julie Michelle Frank	1912650, 1912651, 1912652, 1912653
	07/11/2017	07/17/2017	Julie Michelle Frank	07/18/2017	Julie Michelle Frank	1912650, 1912651, 1912652, 1912653
SM 2120 B	07/11/2017			07/11/2017 17:28	Tanya Welborn	1912635
	07/11/2017			07/11/2017 17:33	Tanya Welborn	1912634
	07/11/2017			07/11/2017 17:42	Tanya Welborn	1912636
	07/11/2017			07/11/2017 17:43	Tanya Welborn	1912637
SM 2320 B-97	07/11/2017			07/14/2017	Dale L. Simmons	1912634, 1912635
	07/11/2017			07/15/2017	Dale L. Simmons	1912636, 1912637
SM 2540 C-97	07/11/2017			07/13/2017	Yijie Li	1912634, 1912635, 1912636, 1912637
SM 2540 D-97	07/11/2017			07/13/2017	Yijie Li	1912634, 1912635, 1912636, 1912637
SM 4500 F-C-97	07/11/2017			07/20/2017	Dale L. Simmons	1912634, 1912635, 1912636, 1912637
SM 5310 B-00	07/11/2017			07/19/2017	Sofia Elnemr	1912638, 1912639, 1912640, 1912641
USGS O-2060-01	07/11/2017	07/12/2017	Hoor Shaik	07/20/2017	Juyoung Kim	1912650
	07/11/2017	07/13/2017	Hoor Shaik	07/20/2017	Juyoung Kim	1912651, 1912652, 1912653
	07/11/2017	07/13/2017	Hoor Shaik	07/26/2017	Juyoung Kim	1912651