

Chemical Analysis Report

TLH-ROC-2017-11-16-02

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

Event Description: **kit C_pesticides**
Request ID: **RQ-2017-11-06-40**
Customer: **TLH-ROC**
Project ID: **SMP**

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

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Certified by: Colin Wright, Program Administrator

Date Certified: 18-DEC-2017 11:45

A handwritten signature in black ink, appearing to read "Colin Wright", is written on a light-colored rectangular background.

Case Narrative

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

Results for the following analytical groups are included in this report: Metals, Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited 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: LAKE SEMINOLE 200M FROM BOAT RAMP @ RIVER RD. Collection Date/Time: 11/16/2017 09:55

Field ID: G2TLHR0002-2017-03

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1947262	EPA 180.1 Rev. 2.0	Turbidity	3.4		NTU	P335464	
	EPA 300.0 Rev. 2.1	Chloride	7.6		mg Cl/L	P335684	
		Sulfate	11		mg SO4/L	P335686	
	SM 2120 B	Color (true)	14		PCU	P335548	
	SM 2320 B-97	Total Alkalinity	48		mg CaCO3/L	P336013	
	SM 2540 C-97	TDS	91		mg/L	P335958	
	SM 2540 D-97	TSS	3	IA	mg/L	P335786	
	SM 4500 F-C-97	Fluoride	0.11		mg F/L	P335923	
1947265	EPA 350.1 Rev. 2.0	Ammonia-N	0.011		mg N/L	P336253	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.96		mg N/L	P336052	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.37		mg N/L	P335903	
	EPA 365.1 Rev. 2.0	Total-P	0.024		mg P/L	P335882	
	SM 5310 B-00	Organic Carbon	2.9		mg C/L	P336098	
1947268	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.005	I	mg P/L	P335486	
1947283	EPA 200.7 Rev. 4.4	Calcium	14.2		mg/L	P335750	
		Iron	190		ug/L	P335750	
		Magnesium	3.29		mg/L	P335750	
		Potassium	2.6		mg/L	P335750	
		Sodium	10.1		mg/L	P335750	
		Zinc	5.0	U	ug/L	P335750	
	EPA 200.8 Rev. 5.4	Arsenic	0.47		ug/L	P335750	
		Cadmium	0.020	U	ug/L	P335750	
		Chromium	0.40	U	ug/L	P335750	
		Copper	0.73	I	ug/L	P335750	
		Lead	0.28		ug/L	P335750	
		Nickel	0.34	I	ug/L	P335750	
		Silver	0.010	U	ug/L	P335750	

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: CHIPLOA RIVER @ MAGNOLIA RD.

Collection Date/Time: 11/16/2017 11:55

Field ID: G2TLHR0016-2017-02

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1947263	EPA 180.1 Rev. 2.0	Turbidity	3.4		NTU	P335464	
	EPA 300.0 Rev. 2.1	Chloride	5.2		mg Cl/L	P335684	
		Sulfate	1.3		mg SO4/L	P335686	
	SM 2120 B	Color (true)	5.2	I	PCU	P335548	
	SM 2320 B-97	Total Alkalinity	128		mg CaCO3/L	P336013	
	SM 2540 C-97	TDS	154		mg/L	P335958	
	SM 2540 D-97	TSS	4	I	mg/L	P335786	
	SM 4500 F-C-97	Fluoride	0.042	I	mg F/L	P335923	
1947266	EPA 350.1 Rev. 2.0	Ammonia-N	0.014		mg N/L	P336253	

Field ID: G2TLHR0016-2017-02

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1947266	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.26		mg N/L	P336052	
	EPA 353.2 Rev. 2.0	NO2NO3-N	2.2		mg N/L	P335903	
	EPA 365.1 Rev. 2.0	Total-P	0.020		mg P/L	P335882	
	SM 5310 B-00	Organic Carbon	1.3		mg C/L	P336098	
1947269	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.012		mg P/L	P335486	
1947284	EPA 200.7 Rev. 4.4	Calcium	52.5		mg/L	P335750	
		Iron	110	I	ug/L	P335750	
		Magnesium	2.76		mg/L	P335750	
		Potassium	0.69	I	mg/L	P335750	
		Sodium	2.7		mg/L	P335750	
	EPA 200.8 Rev. 5.4	Zinc	5.0	U	ug/L	P335750	
		Arsenic	0.40		ug/L	P335750	
		Cadmium	0.020	U	ug/L	P335750	
		Chromium	0.86	I	ug/L	P335750	
		Copper	0.20	U	ug/L	P335750	
		Lead	0.15	I	ug/L	P335750	
		Nickel	0.20	U	ug/L	P335750	
		Silver	0.010	U	ug/L	P335750	

Ref. Method and Comment:

EPA 180.1 Rev. 2.0: The result was confirmed on 11/16/2017

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. The result was confirmed on 11/21/2017.

EPA 350.1 Rev. 2.0: The result was confirmed on 12/05/2017.

EPA 200.7 Rev. 4.4: The iron result was confirmed in the undigested sample on 12/07/2017.

Sample Location: CHIPLOA RIVER @ MAGNOLIA RD.

Collection Date/Time: 11/16/2017 12:05

Field ID: G2TLHR0016-2017-02_DUP

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1947264	EPA 180.1 Rev. 2.0	Turbidity	6.8		NTU	P335464	
	EPA 300.0 Rev. 2.1	Chloride	5.2		mg Cl/L	P335684	
		Sulfate	1.4		mg SO4/L	P335686	
		Color (true)	5.7	I	PCU	P335548	
	SM 2320 B-97	Total Alkalinity	128		mg CaCO3/L	P336013	
	SM 2540 C-97	TDS	156		mg/L	P335958	
	SM 2540 D-97	TSS	21		mg/L	P335786	
	SM 4500 F-C-97	Fluoride	0.041	I	mg F/L	P335923	
1947267	EPA 350.1 Rev. 2.0	Ammonia-N	0.011		mg N/L	P336253	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.24		mg N/L	P336052	
	EPA 353.2 Rev. 2.0	NO2NO3-N	2.2		mg N/L	P335903	
	EPA 365.1 Rev. 2.0	Total-P	0.022		mg P/L	P335882	
	SM 5310 B-00	Organic Carbon	1.2		mg C/L	P336098	
1947270	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.012		mg P/L	P335486	
1947285	EPA 200.7 Rev. 4.4	Calcium	51.8		mg/L	P335750	
		Iron	190		ug/L	P335750	
		Magnesium	2.94		mg/L	P335750	

Field ID: G2TLHR0016-2017-02_DUP

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1947285	EPA 200.7 Rev. 4.4	Potassium	0.68	I	mg/L	P335750	
		Sodium	2.7		mg/L	P335750	
		Zinc	5.0	U	ug/L	P335750	
	EPA 200.8 Rev. 5.4	Arsenic	0.43		ug/L	P335750	
		Cadmium	0.020	U	ug/L	P335750	
		Chromium	1.2	I	ug/L	P335750	
		Copper	0.48	I	ug/L	P335750	
		Lead	0.27		ug/L	P335750	
		Nickel	0.20	U	ug/L	P335750	
		Silver	0.010	U	ug/L	P335750	

Ref. Method and Comment:

EPA 180.1 Rev. 2.0: The result was confirmed on 11/16/2017

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. The result was confirmed on 11/21/2017.

EPA 350.1 Rev. 2.0: The result was confirmed on 12/05/2017.

EPA 200.7 Rev. 4.4: The iron result was confirmed in the undigested sample on 12/07/2017.

Sample Location: LAKE SEMINOLE 200M FROM BOAT RAMP @ RIVER RD. Collection Date/Time: 11/16/2017 09:55

Field ID: G2TLHR0002-2017-03

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1947274	EPA 8321B	Glyphosate**	0.10	U	ug/L	P335313	
		Pyraclostrobin**	0.0020	U	ug/L	P335612	
		Sucralose**	2.7		ug/L	P335633	
	USGS O-2060-01	2,4-D	0.013	Q	ug/L	P336263	
		Diuron	0.0057		ug/L	P335611	
		Fenuron	0.0080	U	ug/L	P335611	
		Imidacloprid	9.6E-04	I	ug/L	P335611	
		Bentazon	8.0E-04	UQ	ug/L	P336263	
		Linuron	0.0040	U	ug/L	P335611	
		Acetaminophen**	0.0080	U	ug/L	P335611	
		MCP	0.0020	UQ	ug/L	P336263	
		Carbamazepine**	0.0032		ug/L	P335611	
		Triclopyr**	0.0040	UQ	ug/L	P336263	
		Primidone**	0.0051	I	ug/L	P335611	
		Fluridone**	0.038		ug/L	P335611	
	EPA 8270D	Aldrin	4.3	UQ	ng/L	P336458	
		Alpha-BHC	2.2	UQ	ng/L	P336458	
		Beta-BHC	4.3	UQ	ng/L	P336458	RPD
		Delta-BHC	4.3	UQ	ng/L	P336458	
		Gamma-BHC	4.3	UQ	ng/L	P336458	
		Carbophenothion	4.3	UQ	ng/L	P336458	
		Chlorothalonil	2.2	UQJ	ng/L	P336458	RPD
		Cypermethrin	22	UQ	ng/L	P336458	
		DDD-p,p'	3.2	UQ	ng/L	P336458	
		DDE-p,p'	3.2	UQ	ng/L	P336458	

Field ID: G2TLHR0002-2017-03

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1947277	EPA 8270D	DDT-p,p'	3.2	UQ	ng/L	P336458	MS
		Dieldrin	4.3	UQ	ng/L	P336458	
		Endosulfan I	4.3	UQ	ng/L	P336458	
		Endosulfan II	4.3	UQ	ng/L	P336458	
		Endosulfan Sulfate	2.2	UQ	ng/L	P336458	
		Endrin	2.2	UQ	ng/L	P336458	
		Endrin Aldehyde	2.2	UQ	ng/L	P336458	
		Heptachlor	1.6	UQ	ng/L	P336458	
		Heptachlor Epoxide	2.2	UQ	ng/L	P336458	
		Methoxychlor	4.3	UQ	ng/L	P336458	
		Mirex	2.2	UQ	ng/L	P336458	
		Permethrin	11	UQ	ng/L	P336458	RPD
		Trifluralin	1.1	UQ	ng/L	P336458	
		Alpha-Chlordane	1.1	UQ	ng/L	P336458	
		Gamma-Chlordane	1.1	UQ	ng/L	P336458	
		Endrin Ketone	2.2	UQ	ng/L	P336458	
		Dicofol	32	UQ	ng/L	P336458	
		Chlordane**	2.7	UQ	ng/L	P336458	
		Toxaphene**	13	UQ	ng/L	P336458	
1947280	EPA 8270D	Alachlor	0.24	U	ng/L	P335622	
		Ametryn	0.31	UJ	ng/L	P335622	LCS
		Atrazine	6.3		ng/L	P335622	
		Atrazine Desethyl	2.9	I	ng/L	P335622	
		Azinphos Methyl	2.1	U	ng/L	P335622	
		Bromacil	2.1		ng/L	P335622	
		Butylate	0.38	U	ng/L	P335622	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P335622	
		Chlorpyrifos Methyl	0.094	U	ng/L	P335622	
		Demeton	1.9	UJ	ng/L	P335622	RPD
		Diazinon	0.12	UJ	ng/L	P335622	LCS, MS
		Disulfoton	0.47	UJ	ng/L	P335622	RPD
		EPTC	1.2	UJ	ng/L	P335622	LCS
		Ethion	0.14	U	ng/L	P335622	
		Ethoprop	0.094	U	ng/L	P335622	
		Fenamiphos	0.24	U	ng/L	P335622	
		Fipronil	0.24	U	ng/L	P335622	
		Fipronil Sulfide	0.14	U	ng/L	P335622	
		Fipronil Sulfone	0.23	I	ng/L	P335622	
		Hexazinone	0.73	I	ng/L	P335622	
		Malathion	0.33	U	ng/L	P335622	
		Metribuzin	0.19	U	ng/L	P335622	MS
		Mevinphos	0.47	U	ng/L	P335622	
		Molinate	0.28	UJ	ng/L	P335622	LCS
		Norflurazon	0.47	U	ng/L	P335622	
		Pendimethalin	0.94	U	ng/L	P335622	

Field ID: G2TLHR0002-2017-03

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1947280	EPA 8270D	Phorate	0.24	U	ng/L	P335622	
		Prometon	1.1	I	ng/L	P335622	
		Prometryn	0.19	UJ	ng/L	P335622	LCS
		Simazine	9.9		ng/L	P335622	
		Terbufos	0.094	U	ng/L	P335622	
		Terbuthylazine	0.40	U	ng/L	P335622	
		Fonofos	0.19	U	ng/L	P335622	
		Metalaxyl	0.35	I	ng/L	P335622	
		Metolachlor	3.0	J	ng/L	P335622	LCS
		Acetochlor	0.39	IJ	ng/L	P335622	LCS, MS
		Cyanazine	0.47	UJ	ng/L	P335622	LCS
		Parathion Ethyl	0.24	U	ng/L	P335622	
		Parathion Methyl	0.24	U	ng/L	P335622	

Ref. Method and Comment:

USGS O-2060-01: Sample required re-extraction beyond normal holding time due to reagent performance inconsistencies.

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

EPA 8276: Sample expired for preparation due to necessary re-extraction.

EPA 8270D: MS accuracy for Atrazine, Simazine, Bromacil, Fipronil Sulfide and Fipronil Sulfone not assessed due to high content of these parameters in the sample spiked. Refer to the narrative for an explanation of QC Codes.

Sample Location: CHIPLOA RIVER @ MAGNOLIA RD.

Collection Date/Time: 11/16/2017 11:55

Field ID: G2TLHR0016-2017-02

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1947275	EPA 8321B	Glyphosate**	0.10	U	ug/L	P335313	
		Pyraclostrobin**	0.0020	U	ug/L	P335612	
		Sucralose**	0.24		ug/L	P335633	
	USGS O-2060-01	2,4-D	0.0020	UQ	ug/L	P335859	
		Diuron	8.0E-04	U	ug/L	P335611	
		Fenuron	0.0080	U	ug/L	P335611	
		Imidacloprid	8.0E-04	U	ug/L	P335611	
		Bentazon	8.0E-04	UQ	ug/L	P335859	
		Linuron	0.0040	U	ug/L	P335611	
		Acetaminophen**	0.0080	U	ug/L	P335611	
		MCP	0.0020	UQ	ug/L	P335859	
		Carbamazepine**	4.0E-04	U	ug/L	P335611	
		Triclopyr**	0.0040	UQ	ug/L	P335859	
		Primidone**	0.0040	U	ug/L	P335611	
		Fluridone**	4.0E-04	U	ug/L	P335611	
	EPA 8270D	Aldrin	4.3	UQ	ng/L	P336458	
		Alpha-BHC	2.2	UQ	ng/L	P336458	
		Beta-BHC	4.3	UQ	ng/L	P336458	RPD
		Delta-BHC	4.3	UQ	ng/L	P336458	
		Gamma-BHC	4.3	UQ	ng/L	P336458	
		Carbophenothion	4.3	UQ	ng/L	P336458	
		Chlorothalonil	2.2	UQJ	ng/L	P336458	RPD
		Cypermethrin	22	UQ	ng/L	P336458	

Field ID: G2TLHR0016-2017-02

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1947278	EPA 8270D	DDD-p,p'	3.2	UQ	ng/L	P336458	
		DDE-p,p'	3.2	UQ	ng/L	P336458	
		DDT-p,p'	3.2	UQ	ng/L	P336458	MS
		Dieldrin	4.3	UQ	ng/L	P336458	
		Endosulfan I	4.3	UQ	ng/L	P336458	
		Endosulfan II	4.3	UQ	ng/L	P336458	
		Endosulfan Sulfate	2.2	UQ	ng/L	P336458	
		Endrin	2.2	UQ	ng/L	P336458	
		Endrin Aldehyde	2.2	UQ	ng/L	P336458	
		Heptachlor	1.6	UQ	ng/L	P336458	
		Heptachlor Epoxide	2.2	UQ	ng/L	P336458	
		Methoxychlor	4.3	UQ	ng/L	P336458	
		Mirex	2.2	UQ	ng/L	P336458	
		Permethrin	11	UQ	ng/L	P336458	RPD
		Trifluralin	1.1	UQ	ng/L	P336458	
		Alpha-Chlordane	1.1	UQ	ng/L	P336458	
		Gamma-Chlordane	1.1	UQ	ng/L	P336458	
		Endrin Ketone	2.2	UQ	ng/L	P336458	
		Dicofol	32	UQ	ng/L	P336458	
		Chlordane**	2.7	UQ	ng/L	P336458	
		Toxaphene**	13	UQ	ng/L	P336458	
1947281	EPA 8270D	Alachlor	0.26	U	ng/L	P335622	
		Ametryn	0.34	UJ	ng/L	P335622	LCS
		Atrazine	1.4		ng/L	P335622	
		Atrazine Desethyl	3.8	I	ng/L	P335622	
		Azinphos Methyl	2.3	U	ng/L	P335622	
		Bromacil	0.52	U	ng/L	P335622	
		Butylate	0.42	U	ng/L	P335622	
		Chlorpyrifos Ethyl	0.26	U	ng/L	P335622	
		Chlorpyrifos Methyl	0.10	U	ng/L	P335622	
		Demeton	2.1	UJ	ng/L	P335622	RPD
		Diazinon	0.13	UJ	ng/L	P335622	LCS, MS
		Disulfoton	0.52	UJ	ng/L	P335622	RPD
		EPTC	1.3	UJ	ng/L	P335622	LCS
		Ethion	0.16	U	ng/L	P335622	
		Ethoprop	0.10	U	ng/L	P335622	
		Fenamiphos	0.26	U	ng/L	P335622	
		Fipronil	0.26	U	ng/L	P335622	
		Fipronil Sulfide	0.16	U	ng/L	P335622	
		Fipronil Sulfone	0.16	U	ng/L	P335622	
		Hexazinone	2.2	J	ng/L	P335622	
		Malathion	0.36	U	ng/L	P335622	
		Metribuzin	0.21	U	ng/L	P335622	MS
		Mevinphos	0.52	U	ng/L	P335622	
		Molinate	0.31	UJ	ng/L	P335622	LCS

Field ID: G2TLHR0016-2017-02

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1947281	EPA 8270D	Norflurazon	0.52	U	ng/L	P335622	
		Pendimethalin	1.0	U	ng/L	P335622	
		Phorate	0.26	U	ng/L	P335622	
		Prometon	0.94	U	ng/L	P335622	
		Prometryn	0.21	UJ	ng/L	P335622	LCS
		Simazine	0.52	U	ng/L	P335622	
		Terbufos	0.10	U	ng/L	P335622	
		Terbuthylazine	0.44	U	ng/L	P335622	
		Fonofos	0.21	U	ng/L	P335622	
		Metalaxyl	0.26	U	ng/L	P335622	
		Metolachlor	2.8	J	ng/L	P335622	LCS
		Acetochlor	0.26	UJ	ng/L	P335622	LCS, MS
		Cyanazine	0.52	UJ	ng/L	P335622	LCS
		Parathion Ethyl	0.26	U	ng/L	P335622	
		Parathion Methyl	0.26	U	ng/L	P335622	

Ref. Method and Comment:

USGS O-2060-01: Sample required re-extraction beyond normal holding time due to reagent performance inconsistencies.

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

EPA 8276: Sample expired for preparation due to necessary re-extraction.

EPA 8270D: MS accuracy for Atrazine, Simazine, Bromacil, Fipronil Sulfide and Fipronil Sulfone not assessed due to high content of these parameters in the sample spiked. Refer to the narrative for an explanation of QC Codes. Estimated value for Hexazinone due to internal standard recovery outside control limits.

Sample Location: CHIPLOA RIVER @ MAGNOLIA RD.

Collection Date/Time: 11/16/2017 12:05

Field ID: G2TLHR0016-2017-02_DUP

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1947276	EPA 8321B	Glyphosate**	0.10	U	ug/L	P335313	
		Pyraclostrobin**	0.0020	U	ug/L	P335612	
		Sucralose**	0.20		ug/L	P335633	
	USGS O-2060-01	2,4-D	0.0020	UQ	ug/L	P335859	
		Diuron	8.0E-04	U	ug/L	P335611	
		Fenuron	0.0080	U	ug/L	P335611	
		Imidacloprid	8.0E-04	U	ug/L	P335611	
		Bentazon	8.0E-04	UQ	ug/L	P335859	
		Linuron	0.0040	U	ug/L	P335611	
		Acetaminophen**	0.0080	U	ug/L	P335611	
		MCP	0.0020	UQ	ug/L	P335859	
		Carbamazepine**	4.0E-04	U	ug/L	P335611	
		Triclopyr**	0.0040	UQ	ug/L	P335859	
		Primidone**	0.0040	U	ug/L	P335611	
		Fluridone**	4.0E-04	U	ug/L	P335611	
	EPA 8270D	Aldrin	4.1	U	ng/L	P335591	
		Alpha-BHC	2.1	U	ng/L	P335591	
		Beta-BHC	4.1	U	ng/L	P335591	
		Delta-BHC	4.1	U	ng/L	P335591	
		Gamma-BHC	4.1	U	ng/L	P335591	

Field ID: G2TLHR0016-2017-02_DUP

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1947279	EPA 8270D	Carbophenothion	4.1	U	ng/L	P335591	
		Chlorothalonil	2.1	U	ng/L	P335591	
		Cypermethrin	21	U	ng/L	P335591	
		DDD-p,p'	3.1	U	ng/L	P335591	
		DDE-p,p'	3.1	U	ng/L	P335591	
		DDT-p,p'	3.1	U	ng/L	P335591	
		Dieldrin	4.1	U	ng/L	P335591	
		Endosulfan I	4.1	U	ng/L	P335591	
		Endosulfan II	4.1	U	ng/L	P335591	
		Endosulfan Sulfate	2.1	U	ng/L	P335591	
		Endrin	2.1	U	ng/L	P335591	
		Endrin Aldehyde	2.1	U	ng/L	P335591	
		Heptachlor	1.5	U	ng/L	P335591	
		Heptachlor Epoxide	2.1	U	ng/L	P335591	
		Methoxychlor	4.1	U	ng/L	P335591	
		Mirex	2.1	U	ng/L	P335591	
		Permethrin	10	U	ng/L	P335591	
		Trifluralin	1.0	U	ng/L	P335591	
		Alpha-Chlordane	1.0	U	ng/L	P335591	
		Gamma-Chlordane	1.0	U	ng/L	P335591	
		Endrin Ketone	2.1	U	ng/L	P335591	
		Dicofol	31	U	ng/L	P335591	
	EPA 8276	Chlordane**	2.6	U	ng/L	P335591	
		Toxaphene**	13	U	ng/L	P335591	
1947282	EPA 8270D	Alachlor	0.24	U	ng/L	P335622	
		Ametryn	0.31	UJ	ng/L	P335622	LCS
		Atrazine	1.4		ng/L	P335622	
		Atrazine Desethyl	1.6	I	ng/L	P335622	
		Azinphos Methyl	2.1	U	ng/L	P335622	
		Bromacil	0.48	U	ng/L	P335622	
		Butylate	0.38	U	ng/L	P335622	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P335622	
		Chlorpyrifos Methyl	0.095	U	ng/L	P335622	
		Demeton	1.9	UJ	ng/L	P335622	RPD
		Diazinon	0.12	UJ	ng/L	P335622	LCS, MS
		Disulfoton	0.48	UJ	ng/L	P335622	RPD
		EPTC	1.2	UJ	ng/L	P335622	LCS
		Ethion	0.14	U	ng/L	P335622	
		Ethoprop	0.095	U	ng/L	P335622	
		Fenamiphos	0.24	U	ng/L	P335622	
		Fipronil	0.24	U	ng/L	P335622	
		Fipronil Sulfide	0.14	U	ng/L	P335622	
		Fipronil Sulfone	0.14	U	ng/L	P335622	
		Hexazinone	1.9	I	ng/L	P335622	
		Malathion	0.33	U	ng/L	P335622	

Field ID: G2TLHR0016-2017-02_DUP

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1947282	EPA 8270D	Metribuzin	0.19	U	ng/L	P335622	MS
		Mevinphos	0.48	U	ng/L	P335622	
		Molinate	0.29	UJ	ng/L	P335622	LCS
		Norflurazon	0.48	U	ng/L	P335622	
		Pendimethalin	0.95	U	ng/L	P335622	
		Phorate	0.24	U	ng/L	P335622	
		Prometon	0.86	U	ng/L	P335622	
		Prometryn	0.19	UJ	ng/L	P335622	LCS
		Simazine	0.48	U	ng/L	P335622	
		Terbufos	0.095	U	ng/L	P335622	
		Terbuthylazine	0.40	U	ng/L	P335622	
		Fonofos	0.19	U	ng/L	P335622	
		Metalaxyl	0.24	U	ng/L	P335622	
		Metolachlor	3.2	J	ng/L	P335622	LCS
		Acetochlor	0.24	UJ	ng/L	P335622	LCS, MS
		Cyanazine	0.48	UJ	ng/L	P335622	LCS
		Parathion Ethyl	0.24	U	ng/L	P335622	
		Parathion Methyl	0.24	U	ng/L	P335622	

Ref. Method and Comment:

USGS O-2060-01: Sample required re-extraction beyond normal holding time due to reagent performance inconsistencies.

EPA 8270D: Sample results confirmed by re-extraction and re-analysis.

EPA 8276: Sample results confirmed by re-extraction and re-analysis.

EPA 8270D: MS accuracy for Atrazine, Simazine, Bromacil, Fipronil Sulfide and Fipronil Sulfone not assessed due to high content of these parameters in the sample spiked. 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: P335464

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P335750

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: P335750

Component	Result	Code	Units
Arsenic	0.050	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P335750

Component	Result	Code	Units
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: P335684

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P335686

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P336253

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P336052

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P335903

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P335882

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P335486

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

Reference Method: EPA 8270D
Batch ID: P335591

Component	Result	Code	Units
Aldrin	4.0	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270D

Batch ID: P335591

Component	Result	Code	Units
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'	3.0	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 8270D

Batch ID: P335622

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	0.50	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D

Batch ID: P335622

Component	Result	Code	Units
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.25	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	1.0	U	ng/L
Phorate	0.25	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Simazine	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L

Reference Method: EPA 8270D

Batch ID: P336458

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'	3.0	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8276
Batch ID: P335591

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

Reference Method: EPA 8276
Batch ID: P336458

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

Reference Method: EPA 8321B
Batch ID: P335313

Component	Result	Code	Units
Glyphosate	0.10	U	ug/L

Reference Method: EPA 8321B
Batch ID: P335612

Component	Result	Code	Units
Pyraclostrobin	0.0020	U	ug/L

Reference Method: EPA 8321B
Batch ID: P335633

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: SM 2120 B
Batch ID: P335548

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P336013

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

Reference Method: SM 2540 C-97
Batch ID: P335958

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P335786

Component	Result	Code	Units
TSS	2	U	mg/L

Quality Assurance Report Method Blank Results

Reference Method: SM 4500 F-C-97
 Batch ID: P335923

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
 Batch ID: P336098

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

Reference Method: USGS O-2060-01
 Batch ID: P335611

Component	Result	Code	Units
Acetaminophen	0.0080	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
Primidone	0.0040	U	ug/L

Reference Method: USGS O-2060-01
 Batch ID: P335859

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
MCP	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: USGS O-2060-01
 Batch ID: P336263

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
MCP	0.0020	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: P335750

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	103		P	85 - 115
Iron	102		P	85 - 115
Magnesium	106		P	85 - 115
Potassium	104		P	85 - 115
Sodium	102		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
 Batch ID: P335750

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Zinc	97.0		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
 Batch ID: P335750

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	104		P	85 - 115
Cadmium	105		P	85 - 115
Chromium	102		P	85 - 115
Copper	102		P	85 - 115
Lead	103		P	85 - 115
Nickel	104		P	85 - 115
Silver	107		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P335684

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	96.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P335686

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

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P336253

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P336052

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

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P335903

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO ₂ NO ₃ -N	105		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P335882

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P335486

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

Reference Method: EPA 8270D
 Batch ID: P335591

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	67.0	64.0	P/P	26 - 88.0
Alpha-BHC	102	107	P/P	63 - 114
Alpha-Chlordane	102	100	P/P	56 - 117
Beta-BHC	107	113	P/P	57 - 138
Carbophenothion	102	102	P/P	36 - 148
Chlorothalonil	113	117	P/P	26 - 173
Cypermethrin	121	128	P/P	42 - 159
DDD-p,p'	117	111	P/P	62 - 126
DDE-p,p'	104	102	P/P	53 - 115
DDT-p,p'	106	108	P/P	54 - 117
Delta-BHC	133	136	P/P	68 - 158
Dicofol	71.0	68.3	P/P	25 - 114
Dieldrin	109	100	P/P	59 - 126
Endosulfan I	108	104	P/P	62 - 138
Endosulfan II	114	103	P/P	61 - 150
Endosulfan Sulfate	104	104	P/P	63 - 132
Endrin	103	103	P/P	49 - 148
Endrin Aldehyde	108	102	P/P	50 - 144
Endrin Ketone	101	102	P/P	66 - 122
Gamma-BHC	102	107	P/P	60 - 137
Gamma-Chlordane	97.8	99.5	P/P	54 - 113
Heptachlor	86.1	85.9	P/P	43 - 104
Heptachlor Epoxide	102	100	P/P	64 - 118
Methoxychlor	110	114	P/P	63 - 129
Mirex	84.7	92.0	P/P	40 - 96.0
Permethrin	91.2	96.6	P/P	51 - 123
Trifluralin	91.7	97.5	P/P	35 - 187

Reference Method: EPA 8270D
 Batch ID: P335622

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	76.2	77.3	F/F	78 - 118
Alachlor	77.1	78.9	P/P	77 - 119
Ametryn	61.9	56.4	P/F	61 - 136
Atrazine	78.1	82.8	P/P	73 - 120
Atrazine Desethyl	99.9	103	P/P	16 - 122
Azinphos Methyl	118	113	P/P	69 - 186
Bromacil	81.9	81.9	P/P	40 - 125
Butylate	35.9	35.8	P/P	32 - 87.0
Chlorpyrifos Ethyl	82.9	80.8	P/P	53 - 110
Chlorpyrifos Methyl	86.5	84.9	P/P	31 - 119
Cyanazine	260	265	F/F	36 - 224
Demeton	44.5	66.6	P/P	39 - 122
Diazinon	72.9	72.8	F/F	75 - 119
Disulfoton	58.2	84.0	P/P	42 - 139

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
 Batch ID: P335622

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
EPTC	31.5	34.2	F/P	33 - 96.0
Ethion	75.1	86.1	P/P	63 - 127
Ethoprop	77.2	76.7	P/P	65 - 107
Fenamiphos	80.4	88.3	P/P	64 - 137
Fipronil	76.6	79.3	P/P	60 - 126
Fipronil Sulfide	71.9	73.6	P/P	58 - 124
Fipronil Sulfone	75.6	77.7	P/P	57 - 126
Fonofos	79.8	81.3	P/P	65 - 111
Hexazinone	76.8	78.0	P/P	46 - 151
Malathion	86.0	88.3	P/P	68 - 132
Metaxyl	70.6	71.0	P/P	51 - 132
Metolachlor	77.7	79.3	F/P	78 - 119
Metribuzin	135	144	P/P	58 - 148
Mevinphos	61.3	61.9	P/P	34 - 128
Molinate	37.0	38.5	F/F	44 - 101
Norflurazon	75.2	78.7	P/P	63 - 129
Parathion Ethyl	83.8	84.2	P/P	80 - 109
Parathion Methyl	92.1	96.1	P/P	74 - 125
Pendimethalin	79.5	81.7	P/P	48 - 134
Phorate	60.4	66.5	P/P	52 - 119
Prometon	72.9	75.3	P/P	69 - 124
Prometryn	69.5	61.6	P/F	66 - 124
Simazine	89.9	93.9	P/P	61 - 134
Terbufos	69.8	77.3	P/P	58 - 115
Terbuthylazine	84.3	85.3	P/P	77 - 113

Reference Method: EPA 8270D
 Batch ID: P336458

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	61.5	62.7	P/P	26 - 88.0
Alpha-BHC	94.4	97.0	P/P	63 - 114
Alpha-Chlordane	98.7	94.5	P/P	56 - 117
Beta-BHC	114	108	P/P	57 - 138
Carbophenothion	92.1	87.7	P/P	36 - 148
Chlorothalonil	73.7	49.7	P/P	26 - 173
Cypermethrin	93.5	91.3	P/P	42 - 159
DDD-p,p'	106	102	P/P	62 - 126
DDE-p,p'	101	99.6	P/P	53 - 115
DDT-p,p'	98.9	99.2	P/P	54 - 117
Delta-BHC	118	114	P/P	68 - 158
Dicofol	96.8	95.5	P/P	25 - 114
Dieldrin	98.7	96.0	P/P	59 - 126
Endosulfan I	104	106	P/P	62 - 138
Endosulfan II	109	98.0	P/P	61 - 150
Endosulfan Sulfate	99.2	88.4	P/P	63 - 132
Endrin	101	96.9	P/P	49 - 148
Endrin Aldehyde	104	97.4	P/P	50 - 144
Endrin Ketone	96.8	92.0	P/P	66 - 122
Gamma-BHC	105	101	P/P	60 - 137
Gamma-Chlordane	97.1	92.2	P/P	54 - 113
Heptachlor	85.8	82.5	P/P	43 - 104

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P336458

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Heptachlor Epoxide	97.5	94.7	P/P	64 - 118
Methoxychlor	105	101	P/P	63 - 129
Mirex	84.8	81.2	P/P	40 - 96.0
Permethrin	89.4	90.8	P/P	51 - 123
Trifluralin	94.0	90.2	P/P	35 - 187

Reference Method: EPA 8276
Batch ID: P335591

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	66.6	73.8	P/P	48 - 121
Toxaphene	116	114	P/P	43 - 135

Reference Method: EPA 8276
Batch ID: P336458

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	93.2	95.7	P/P	48 - 121
Toxaphene	114	111	P/P	43 - 135

Reference Method: EPA 8321B
Batch ID: P335313

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Glyphosate	124		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P335612

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pyraclostrobin	85.2		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P335633

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	100		P	40 - 150

Reference Method: SM 2320 B-97
Batch ID: P336013

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	95 - 108

Reference Method: SM 4500 F-C-97
Batch ID: P335923

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	94.3		P	92 - 103

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-00
 Batch ID: P336098

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.2		P	85 - 115

Reference Method: USGS O-2060-01
 Batch ID: P335611

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetaminophen	87.8		P	30 - 150
Carbamazepine	104		P	40 - 150
Diuron	90.0		P	40 - 150
Fenuron	80.4		P	40 - 150
Fluridone	91.1		P	40 - 150
Imidacloprid	76.7		P	40 - 160
Linuron	78.4		P	40 - 150
Primidone	85.0		P	40 - 150

Reference Method: USGS O-2060-01
 Batch ID: P335859

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	84.9		P	40 - 150
Bentazon	83.3		P	30 - 150
MCP	77.4		P	40 - 150
Triclopyr	71.9		P	40 - 150

Reference Method: USGS O-2060-01
 Batch ID: P336263

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	113		P	40 - 150
Bentazon	83.2		P	30 - 150
MCP	111		P	40 - 150
Triclopyr	107		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
 Batch ID: P335750

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947324	Calcium	100		P	80 - 120
1947324	Iron	99.9		P	80 - 120
1947324	Magnesium	99.4		P	80 - 120
1947324	Potassium	101		P	80 - 120
1947324	Sodium	98.8		P	80 - 120
1947324	Zinc	97.7		P	80 - 120
1947419	Calcium	98.4	98.8	P/P	80 - 120
1947419	Iron	97.5	97.8	P/P	80 - 120
1947419	Magnesium	103	102	P/P	80 - 120
1947419	Potassium	100	101	P/P	80 - 120
1947419	Sodium	97.3	97.4	P/P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P335750

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947419	Zinc	96.1	96.8	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P335750

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947324	Arsenic	105		P	80 - 120
1947324	Cadmium	107		P	80 - 120
1947324	Chromium	102		P	80 - 120
1947324	Copper	102		P	80 - 120
1947324	Lead	104		P	80 - 120
1947324	Nickel	104		P	80 - 120
1947324	Silver	106		P	80 - 120
1947419	Arsenic	106	108	P/P	80 - 120
1947419	Cadmium	107	109	P/P	80 - 120
1947419	Chromium	105	106	P/P	80 - 120
1947419	Copper	105	106	P/P	80 - 120
1947419	Lead	106	107	P/P	80 - 120
1947419	Nickel	106	106	P/P	80 - 120
1947419	Silver	108	108	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P335684

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947161	Chloride	95.6		P	90 - 110
1947426	Chloride	93.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P335686

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947161	Sulfate	96.3		P	90 - 110
1947426	Sulfate	96.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P336253

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947251	Ammonia-N	91.9	95.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P336052

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947267	Kjeldahl Nitrogen	97.4	96.9	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P335903

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947265	NO2NO3-N	102		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P335882

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947251	Total-P	106	99.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P335486

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947254	O-Phosphate-P	100	104	P/P	90 - 110

Reference Method: EPA 8270D

Batch ID: P335591

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1946575	Aldrin	64.0	63.4	P/P	22 - 97.0
1946575	Alpha-BHC	106	107	P/P	43 - 132
1946575	Alpha-Chlordane	102	95.3	P/P	36 - 126
1946575	Beta-BHC	107	108	P/P	41 - 150
1946575	Carbophenothion	107	104	P/P	13 - 196
1946575	Chlorothalonil	189	199	P/P	10 - 266
1946575	Cypermethrin	130	135	P/P	37 - 161
1946575	DDD-p,p'	100	105	P/P	44 - 131
1946575	DDE-p,p'	103	95.4	P/P	32 - 127
1946575	DDT-p,p'	102	105	P/P	45 - 116
1946575	Delta-BHC	145	127	P/P	50 - 201
1946575	Dicofol	61.8	58.0	P/P	10 - 100
1946575	Dieldrin	101	101	P/P	39 - 142
1946575	Endosulfan I	109	103	P/P	51 - 139
1946575	Endosulfan II	110	108	P/P	49 - 155
1946575	Endosulfan Sulfate	107	112	P/P	54 - 136
1946575	Endrin	104	102	P/P	38 - 141
1946575	Endrin Aldehyde	107	101	P/P	14 - 152
1946575	Endrin Ketone	104	107	P/P	60 - 128
1946575	Gamma-BHC	110	100	P/P	48 - 157
1946575	Gamma-Chlordane	99.4	93.9	P/P	35 - 123
1946575	Heptachlor	90.6	86.0	P/P	25 - 112
1946575	Heptachlor Epoxide	102	97.1	P/P	48 - 125
1946575	Methoxychlor	107	107	P/P	52 - 127
1946575	Mirex	91.1	87.7	P/P	25 - 108
1946575	Permethrin	98.8	105	P/P	46 - 133
1946575	Trifluralin	95.3	93.4	P/P	29 - 254

Reference Method: EPA 8270D

Batch ID: P335622

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1946969	Acetochlor	79.4	73.2	P/F	74 - 123
1946969	Alachlor	79.6	75.4	P/P	73 - 124
1946969	Ametryn	84.7	73.2	P/P	56 - 149
1946969	Atrazine Desethyl	78.9	68.5	P/P	12 - 103
1946969	Azinphos Methyl	97.3	93.9	P/P	60 - 202
1946969	Butylate	25.0	20.1	P/P	10 - 85.0
1946969	Chlorpyrifos Ethyl	79.3	70.3	P/P	53 - 113
1946969	Chlorpyrifos Methyl	77.8	70.2	P/P	40 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P335622

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1946969	Cyanazine	182	147	P/P	22 - 210
1946969	Demeton	53.9	47.1	P/P	17 - 149
1946969	Diazinon	71.4	62.4	F/F	72 - 124
1946969	Disulfoton	72.9	64.8	P/P	43 - 139
1946969	EPTC	24.8	21.3	P/P	10 - 86.0
1946969	Ethion	88.0	84.3	P/P	65 - 131
1946969	Ethoprop	71.5	63.0	P/P	59 - 110
1946969	Fenamiphos	81.8	80.5	P/P	57 - 138
1946969	Fipronil	73.0	71.7	P/P	40 - 130
1946969	Fonofos	68.3	62.3	P/P	60 - 112
1946969	Hexazinone	90.4	87.2	P/P	69 - 142
1946969	Malathion	84.8	81.3	P/P	68 - 132
1946969	Metalaxyl	72.5	69.6	P/P	66 - 118
1946969	Metolachlor	81.2	73.7	P/P	71 - 124
1946969	Metribuzin	177	160	F/F	61 - 140
1946969	Mevinphos	51.2	49.4	P/P	38 - 130
1946969	Molinate	32.6	30.3	P/P	23 - 99.0
1946969	Norflurazon	71.2	76.0	P/P	39 - 139
1946969	Parathion Ethyl	82.5	78.1	P/P	75 - 111
1946969	Parathion Methyl	89.1	80.3	P/P	64 - 130
1946969	Pendimethalin	84.0	77.6	P/P	26 - 173
1946969	Phorate	52.5	46.9	P/P	43 - 127
1946969	Prometon	90.2	97.9	P/P	50 - 144
1946969	Prometryn	79.2	74.0	P/P	69 - 126
1946969	Terbufos	70.5	60.5	P/P	54 - 125
1946969	Terbutylazine	85.4	79.5	P/P	76 - 113

Reference Method: EPA 8270D
Batch ID: P336458

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1950931	Aldrin	72.2	72.9	P/P	22 - 97.0
1950931	Alpha-BHC	98.5	90.9	P/P	43 - 132
1950931	Alpha-Chlordane	84.4	82.8	P/P	36 - 126
1950931	Beta-BHC	91.9	65.3	P/P	41 - 150
1950931	Carbophenothion	91.8	68.9	P/P	13 - 196
1950931	Chlorothalonil	50.6	72.5	P/P	10 - 266
1950931	Cypermethrin	96.3	94.8	P/P	37 - 161
1950931	DDD-p,p'	87.4	94.4	P/P	44 - 131
1950931	DDE-p,p'	85.5	84.8	P/P	32 - 127
1950931	DDT-p,p'	105	129	P/F	45 - 116
1950931	Delta-BHC	94.3	94.6	P/P	50 - 201
1950931	Dicofol	71.1	72.1	P/P	10 - 100
1950931	Dieldrin	86.0	82.3	P/P	39 - 142
1950931	Endosulfan I	98.0	105	P/P	51 - 139
1950931	Endosulfan II	116	112	P/P	49 - 155
1950931	Endosulfan Sulfate	91.5	85.2	P/P	54 - 136
1950931	Endrin	88.8	91.3	P/P	38 - 141
1950931	Endrin Aldehyde	81.7	86.9	P/P	14 - 152
1950931	Endrin Ketone	87.8	97.5	P/P	60 - 128
1950931	Gamma-BHC	102	101	P/P	48 - 157
1950931	Gamma-Chlordane	83.2	81.9	P/P	35 - 123

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D

Batch ID: P336458

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1950931	Heptachlor	75.5	78.7	P/P	25 - 112
1950931	Heptachlor Epoxide	85.1	84.3	P/P	48 - 125
1950931	Methoxychlor	113	95.2	P/P	52 - 127
1950931	Mirex	83.5	79.4	P/P	25 - 108
1950931	Permethrin	92.1	129	P/P	46 - 133
1950931	Trifluralin	86.3	83.8	P/P	29 - 254

Reference Method: EPA 8276

Batch ID: P335591

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1946579	Chlordane	55.1	57.7	P/P	44 - 134
1946579	Toxaphene	125	119	P/P	36 - 147

Reference Method: EPA 8276

Batch ID: P336458

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1951219	Chlordane	71.4	76.1	P/P	44 - 134
1951219	Toxaphene	77.1	91.0	P/P	36 - 147

Reference Method: EPA 8321B

Batch ID: P335313

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1946205	Glyphosate	128	128	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P335612

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1946205	Pyraclostrobin	86.0	91.6	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P335633

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947274	Sucralose	55.4	114	P/P	40 - 150

Reference Method: SM 4500 F-C-97

Batch ID: P335923

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947248	Fluoride	97.5	97.0	P/P	91 - 105

Reference Method: SM 5310 B-00

Batch ID: P336098

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947061	Organic Carbon	95.8	95.4	P/P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: USGS O-2060-01
Batch ID: P335611

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947128	Acetaminophen	53.2	60.5	P/P	30 - 150
1947128	Carbamazepine	90.9	101	P/P	40 - 150
1947128	Diuron	50.7	51.1	P/P	40 - 150
1947128	Fenuron	71.9	80.3	P/P	40 - 150
1947128	Fluridone	72.0	76.4	P/P	40 - 150
1947128	Imidacloprid	123	138	P/P	40 - 160
1947128	Linuron	86.0	94.6	P/P	40 - 150
1947128	Primidone	79.2	86.7	P/P	40 - 150

Reference Method: USGS O-2060-01
Batch ID: P335859

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947131	2,4-D	97.5	88.0	P/P	40 - 150
1947131	Bentazon	79.0	75.5	P/P	30 - 150
1947131	MCP	70.8	63.9	P/P	40 - 150
1947131	Triclopyr	67.4	59.9	P/P	40 - 150

Reference Method: USGS O-2060-01
Batch ID: P336263

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947129	2,4-D	75.9	83.8	P/P	40 - 150
1947129	Bentazon	49.7	57.0	P/P	30 - 150
1947129	MCP	64.8	68.5	P/P	40 - 150
1947129	Triclopyr	54.0	68.8	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P335464

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947247	Turbidity	3.12	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P335750

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947419	Calcium	0.310	Spike	P	0 - 20
1947419	Iron	0.292	Spike	P	0 - 20
1947419	Magnesium	0.187	Spike	P	0 - 20
1947419	Potassium	0.261	Spike	P	0 - 20
1947419	Sodium	0.0790	Spike	P	0 - 20
1947419	Zinc	0.687	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P335750

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947419	Arsenic	1.60	Spike	P	0 - 20
1947419	Cadmium	1.41	Spike	P	0 - 20
1947419	Chromium	1.58	Spike	P	0 - 20
1947419	Copper	1.07	Spike	P	0 - 20
1947419	Lead	1.62	Spike	P	0 - 20
1947419	Nickel	0.0672	Spike	P	0 - 20
1947419	Silver	0.196	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P335684

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947161	Chloride	0.489	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P335686

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947161	Sulfate	0.618	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P336253

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947251	Ammonia-N	3.26	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P336052

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947267	Kjeldahl Nitrogen	0.420	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P335903

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947265	NO2NO3-N	0.345	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P335882

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947251	Total-P	6.76	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P335486

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947254	O-Phosphate-P	3.26	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P335591

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946575	Aldrin	1.03	Spike	P	0 - 30
1946575	Alpha-BHC	0.628	Spike	P	0 - 30
1946575	Alpha-Chlordane	6.50	Spike	P	0 - 30
1946575	Beta-BHC	0.796	Spike	P	0 - 30
1946575	Carbophenothion	2.61	Spike	P	0 - 30
1946575	Chlorothalonil	5.17	Spike	P	0 - 30
1946575	Cypermethrin	3.50	Spike	P	0 - 30
1946575	DDD-p,p'	4.43	Spike	P	0 - 30
1946575	DDE-p,p'	7.67	Spike	P	0 - 30
1946575	DDT-p,p'	3.10	Spike	P	0 - 30
1946575	Delta-BHC	13.3	Spike	P	0 - 30
1946575	Dicofol	6.37	Spike	P	0 - 30
1946575	Dieldrin	0.381	Spike	P	0 - 30
1946575	Endosulfan I	5.45	Spike	P	0 - 30
1946575	Endosulfan II	1.35	Spike	P	0 - 30
1946575	Endosulfan Sulfate	4.56	Spike	P	0 - 30
1946575	Endrin	1.62	Spike	P	0 - 30
1946575	Endrin Aldehyde	5.10	Spike	P	0 - 30
1946575	Endrin Ketone	2.92	Spike	P	0 - 30
1946575	Gamma-BHC	8.84	Spike	P	0 - 30
1946575	Gamma-Chlordane	5.70	Spike	P	0 - 30
1946575	Heptachlor	5.25	Spike	P	0 - 30
1946575	Heptachlor Epoxide	5.30	Spike	P	0 - 30
1946575	Methoxychlor	0.686	Spike	P	0 - 30
1946575	Mirex	3.76	Spike	P	0 - 30
1946575	Permethrin	5.71	Spike	P	0 - 30
1946575	Trifluralin	2.05	Spike	P	0 - 30
LFB	Aldrin	4.59	LCS	P	0 - 30
LFB	Alpha-BHC	4.59	LCS	P	0 - 30
LFB	Alpha-Chlordane	1.19	LCS	P	0 - 30
LFB	Beta-BHC	5.28	LCS	P	0 - 30
LFB	Carbophenothion	0.479	LCS	P	0 - 30
LFB	Chlorothalonil	3.36	LCS	P	0 - 30
LFB	Cypermethrin	5.24	LCS	P	0 - 30
LFB	DDD-p,p'	5.50	LCS	P	0 - 30
LFB	DDE-p,p'	2.09	LCS	P	0 - 30
LFB	DDT-p,p'	1.69	LCS	P	0 - 30
LFB	Delta-BHC	2.36	LCS	P	0 - 30
LFB	Dicofol	3.89	LCS	P	0 - 30
LFB	Dieldrin	8.82	LCS	P	0 - 30
LFB	Endosulfan I	4.14	LCS	P	0 - 30
LFB	Endosulfan II	9.53	LCS	P	0 - 30
LFB	Endosulfan Sulfate	0.112	LCS	P	0 - 30
LFB	Endrin	0.508	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D

Batch ID: P335591

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Endrin Aldehyde	6.16	LCS	P	0 - 30
LFB	Endrin Ketone	1.27	LCS	P	0 - 30
LFB	Gamma-BHC	4.83	LCS	P	0 - 30
LFB	Gamma-Chlordane	1.79	LCS	P	0 - 30
LFB	Heptachlor	0.230	LCS	P	0 - 30
LFB	Heptachlor Epoxide	1.94	LCS	P	0 - 30
LFB	Methoxychlor	3.75	LCS	P	0 - 30
LFB	Mirex	8.24	LCS	P	0 - 30
LFB	Permethrin	5.82	LCS	P	0 - 30
LFB	Trifluralin	6.05	LCS	P	0 - 30

Reference Method: EPA 8270D

Batch ID: P335622

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946969	Acetochlor	8.13	Spike	P	0 - 30
1946969	Alachlor	5.49	Spike	P	0 - 30
1946969	Ametryn	14.5	Spike	P	0 - 30
1946969	Atrazine	6.04	Spike	P	0 - 30
1946969	Atrazine Desethyl	11.6	Spike	P	0 - 30
1946969	Azinphos Methyl	3.53	Spike	P	0 - 30
1946969	Bromacil	4.05	Spike	P	0 - 30
1946969	Butylate	21.4	Spike	P	0 - 30
1946969	Chlorpyrifos Ethyl	12.0	Spike	P	0 - 30
1946969	Chlorpyrifos Methyl	10.2	Spike	P	0 - 30
1946969	Cyanazine	21.0	Spike	P	0 - 30
1946969	Demeton	13.4	Spike	P	0 - 30
1946969	Diazinon	13.5	Spike	P	0 - 30
1946969	Disulfoton	11.8	Spike	P	0 - 30
1946969	EPTC	15.3	Spike	P	0 - 30
1946969	Ethion	4.20	Spike	P	0 - 30
1946969	Ethoprop	12.5	Spike	P	0 - 30
1946969	Fenamiphos	1.63	Spike	P	0 - 30
1946969	Fipronil	1.27	Spike	P	0 - 30
1946969	Fipronil Sulfide	6.87	Spike	P	0 - 30
1946969	Fipronil Sulfone	7.01	Spike	P	0 - 30
1946969	Fonofos	9.16	Spike	P	0 - 30
1946969	Hexazinone	3.57	Spike	P	0 - 30
1946969	Malathion	4.30	Spike	P	0 - 30
1946969	Metalaxyl	4.04	Spike	P	0 - 30
1946969	Metolachlor	9.62	Spike	P	0 - 30
1946969	Metribuzin	10.2	Spike	P	0 - 30
1946969	Mevinphos	3.52	Spike	P	0 - 30
1946969	Molinate	7.23	Spike	P	0 - 30
1946969	Norflurazon	6.57	Spike	P	0 - 30
1946969	Parathion Ethyl	5.43	Spike	P	0 - 30
1946969	Parathion Methyl	10.4	Spike	P	0 - 30
1946969	Pendimethalin	7.95	Spike	P	0 - 30
1946969	Phorate	11.3	Spike	P	0 - 30
1946969	Prometon	8.21	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D

Batch ID: P335622

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946969	Prometryn	6.81	Spike	P	0 - 30
1946969	Simazine	6.90	Spike	P	0 - 30
1946969	Terbufos	15.3	Spike	P	0 - 30
1946969	Terbutylazine	7.06	Spike	P	0 - 30
LFB	Acetochlor	1.44	LCS	P	0 - 30
LFB	Alachlor	2.42	LCS	P	0 - 30
LFB	Ametryn	9.34	LCS	P	0 - 30
LFB	Atrazine	5.79	LCS	P	0 - 30
LFB	Atrazine Desethyl	3.16	LCS	P	0 - 30
LFB	Azinphos Methyl	4.48	LCS	P	0 - 30
LFB	Bromacil	0.0359	LCS	P	0 - 30
LFB	Butylate	0.0994	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	2.50	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	1.89	LCS	P	0 - 30
LFB	Cyanazine	2.20	LCS	P	0 - 30
LFB	Demeton	39.6	LCS	F	0 - 30
LFB	Diazinon	0.0995	LCS	P	0 - 30
LFB	Disulfoton	36.3	LCS	F	0 - 30
LFB	EPTC	8.23	LCS	P	0 - 30
LFB	Ethion	13.7	LCS	P	0 - 30
LFB	Ethoprop	0.608	LCS	P	0 - 30
LFB	Fenamiphos	9.38	LCS	P	0 - 30
LFB	Fipronil	3.51	LCS	P	0 - 30
LFB	Fipronil Sulfide	2.38	LCS	P	0 - 30
LFB	Fipronil Sulfone	2.75	LCS	P	0 - 30
LFB	Fonofos	1.79	LCS	P	0 - 30
LFB	Hexazinone	1.56	LCS	P	0 - 30
LFB	Malathion	2.73	LCS	P	0 - 30
LFB	Metalaxyl	0.476	LCS	P	0 - 30
LFB	Metolachlor	2.01	LCS	P	0 - 30
LFB	Metribuzin	6.31	LCS	P	0 - 30
LFB	Mevinphos	0.974	LCS	P	0 - 30
LFB	Molinate	3.79	LCS	P	0 - 30
LFB	Norflurazon	4.55	LCS	P	0 - 30
LFB	Parathion Ethyl	0.491	LCS	P	0 - 30
LFB	Parathion Methyl	4.27	LCS	P	0 - 30
LFB	Pendimethalin	2.78	LCS	P	0 - 30
LFB	Phorate	9.63	LCS	P	0 - 30
LFB	Prometon	3.20	LCS	P	0 - 30
LFB	Prometryn	12.0	LCS	P	0 - 30
LFB	Simazine	4.36	LCS	P	0 - 30
LFB	Terbufos	10.2	LCS	P	0 - 30
LFB	Terbutylazine	1.17	LCS	P	0 - 30

Reference Method: EPA 8270D

Batch ID: P336458

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1950931	Aldrin	0.902	Spike	P	0 - 30
1950931	Alpha-BHC	7.99	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P336458

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1950931	Alpha-Chlordane	2.00	Spike	P	0 - 30
1950931	Beta-BHC	33.8	Spike	F	0 - 30
1950931	Carbophenothion	28.5	Spike	P	0 - 30
1950931	Chlorothalonil	35.7	Spike	F	0 - 30
1950931	Cypermethrin	1.57	Spike	P	0 - 30
1950931	DDD-p,p'	7.70	Spike	P	0 - 30
1950931	DDE-p,p'	0.795	Spike	P	0 - 30
1950931	DDT-p,p'	20.8	Spike	P	0 - 30
1950931	Delta-BHC	0.370	Spike	P	0 - 30
1950931	Dicofol	1.34	Spike	P	0 - 30
1950931	Dieldrin	4.33	Spike	P	0 - 30
1950931	Endosulfan I	6.94	Spike	P	0 - 30
1950931	Endosulfan II	3.68	Spike	P	0 - 30
1950931	Endosulfan Sulfate	7.15	Spike	P	0 - 30
1950931	Endrin	2.80	Spike	P	0 - 30
1950931	Endrin Aldehyde	6.15	Spike	P	0 - 30
1950931	Endrin Ketone	10.5	Spike	P	0 - 30
1950931	Gamma-BHC	1.17	Spike	P	0 - 30
1950931	Gamma-Chlordane	1.67	Spike	P	0 - 30
1950931	Heptachlor	4.09	Spike	P	0 - 30
1950931	Heptachlor Epoxide	0.981	Spike	P	0 - 30
1950931	Methoxychlor	16.9	Spike	P	0 - 30
1950931	Mirex	5.03	Spike	P	0 - 30
1950931	Permethrin	33.7	Spike	F	0 - 30
1950931	Trifluralin	2.93	Spike	P	0 - 30
LFB	Aldrin	1.94	LCS	P	0 - 30
LFB	Alpha-BHC	2.72	LCS	P	0 - 30
LFB	Alpha-Chlordane	4.30	LCS	P	0 - 30
LFB	Beta-BHC	5.56	LCS	P	0 - 30
LFB	Carbophenothion	4.88	LCS	P	0 - 30
LFB	Chlorothalonil	38.9	LCS	F	0 - 30
LFB	Cypermethrin	2.37	LCS	P	0 - 30
LFB	DDD-p,p'	3.09	LCS	P	0 - 30
LFB	DDE-p,p'	1.88	LCS	P	0 - 30
LFB	DDT-p,p'	0.280	LCS	P	0 - 30
LFB	Delta-BHC	3.65	LCS	P	0 - 30
LFB	Dicofol	1.42	LCS	P	0 - 30
LFB	Dieldrin	2.80	LCS	P	0 - 30
LFB	Endosulfan I	1.23	LCS	P	0 - 30
LFB	Endosulfan II	10.7	LCS	P	0 - 30
LFB	Endosulfan Sulfate	11.6	LCS	P	0 - 30
LFB	Endrin	4.17	LCS	P	0 - 30
LFB	Endrin Aldehyde	6.45	LCS	P	0 - 30
LFB	Endrin Ketone	5.17	LCS	P	0 - 30
LFB	Gamma-BHC	3.64	LCS	P	0 - 30
LFB	Gamma-Chlordane	5.23	LCS	P	0 - 30
LFB	Heptachlor	3.90	LCS	P	0 - 30
LFB	Heptachlor Epoxide	2.97	LCS	P	0 - 30
LFB	Methoxychlor	3.99	LCS	P	0 - 30
LFB	Mirex	4.26	LCS	P	0 - 30
LFB	Permethrin	1.53	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P336458

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Trifluralin	4.15	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P335591

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946579	Chlordane	3.94	Spike	P	0 - 30
1946579	Toxaphene	5.55	Spike	P	0 - 30
LFB	Chlordane	10.3	LCS	P	0 - 30
LFB	Toxaphene	1.41	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P336458

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1951219	Chlordane	6.32	Spike	P	0 - 30
1951219	Toxaphene	14.6	Spike	P	0 - 30
LFB	Chlordane	2.66	LCS	P	0 - 30
LFB	Toxaphene	2.74	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P335313

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946205	Glyphosate	0.234	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P335612

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1946205	Pyraclostrobin	6.31	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P335633

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947274	Sucralose	27.9	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P335548

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947247	Color (true)	0.188	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-97
 Batch ID: P336013

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947248	Total Alkalinity	0.128	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
 Batch ID: P335958

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947318	TDS	6.67	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
 Batch ID: P335923

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947248	Fluoride	0.487	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
 Batch ID: P336098

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947061	Organic Carbon	0.362	Spike	P	0 - 20

Reference Method: USGS O-2060-01
 Batch ID: P335611

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947128	Acetaminophen	8.55	Spike	P	0 - 30
1947128	Carbamazepine	10.6	Spike	P	0 - 30
1947128	Diuron	0.747	Spike	P	0 - 30
1947128	Fenuron	11.0	Spike	P	0 - 30
1947128	Fluridone	5.95	Spike	P	0 - 30
1947128	Imidacloprid	11.5	Spike	P	0 - 30
1947128	Linuron	9.63	Spike	P	0 - 30
1947128	Primidone	9.02	Spike	P	0 - 30

Reference Method: USGS O-2060-01
 Batch ID: P335859

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947131	2,4-D	10.2	Spike	P	0 - 30
1947131	Bentazon	4.27	Spike	P	0 - 30
1947131	MCP	10.2	Spike	P	0 - 30
1947131	Triclopyr	11.7	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: USGS O-2060-01
Batch ID: P336263

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947129	2,4-D	9.89	Spike	P	0 - 30
1947129	Bentazon	13.7	Spike	P	0 - 30
1947129	MCP	5.52	Spike	P	0 - 30
1947129	Triclopyr	24.0	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: 1947274
Field Sample ID: G2TLHR0002-2017-03

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	85.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	85.8	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	100	P	30 - 160
EPA 8321B	Diuron-d6	76.0	P	30 - 160
EPA 8321B	Diuron-d6	100	P	30 - 160
EPA 8321B	Diuron-d6	76.0	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	116	P	40 - 160
EPA 8321B	Primidone-d5	97.8	P	30 - 160
EPA 8321B	Primidone-d5	97.8	P	30 - 160
EPA 8321B	Sucralose-d6	146	P	40 - 160
EPA 8321B	Sucralose-d6	146	P	40 - 160
USGS O-2060-01	2,4-D-d3	60.9	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	85.8	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	89.6	P	30 - 160
USGS O-2060-01	Diuron-d6	100	P	30 - 160
USGS O-2060-01	Diuron-d6	76.0	P	30 - 160
USGS O-2060-01	Primidone-d5	97.8	P	30 - 160
USGS O-2060-01	Sucralose-d6	146	P	40 - 160

Lab Sample ID: 1947275
Field Sample ID: G2TLHR0016-2017-02

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	86.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	86.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	107	P	30 - 160
EPA 8321B	Carbamazepine-d10	107	P	30 - 160
EPA 8321B	Diuron-d6	102	P	30 - 160
EPA 8321B	Diuron-d6	96.9	P	30 - 160
EPA 8321B	Diuron-d6	102	P	30 - 160
EPA 8321B	Diuron-d6	96.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	112	P	40 - 160
EPA 8321B	Primidone-d5	95.3	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 1947275

Field Sample ID: G2TLHR0016-2017-02

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Primidone-d5	95.3	P	30 - 160
EPA 8321B	Sucralose-d6	148	P	40 - 160
EPA 8321B	Sucralose-d6	148	P	40 - 160
USGS O-2060-01	2,4-D-d3	59.4	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	86.9	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	107	P	30 - 160
USGS O-2060-01	Diuron-d6	102	P	30 - 160
USGS O-2060-01	Diuron-d6	96.9	P	30 - 160
USGS O-2060-01	Primidone-d5	95.3	P	30 - 160
USGS O-2060-01	Sucralose-d6	148	P	40 - 160

Lab Sample ID: 1947276

Field Sample ID: G2TLHR0016-2017-02_DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	83.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	83.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	101	P	30 - 160
EPA 8321B	Carbamazepine-d10	101	P	30 - 160
EPA 8321B	Diuron-d6	101	P	30 - 160
EPA 8321B	Diuron-d6	89.0	P	30 - 160
EPA 8321B	Diuron-d6	101	P	30 - 160
EPA 8321B	Diuron-d6	89.0	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	110	P	40 - 160
EPA 8321B	Primidone-d5	93.7	P	30 - 160
EPA 8321B	Primidone-d5	93.7	P	30 - 160
EPA 8321B	Sucralose-d6	101	P	40 - 160
EPA 8321B	Sucralose-d6	101	P	40 - 160
USGS O-2060-01	2,4-D-d3	63.8	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	83.5	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	101	P	30 - 160
USGS O-2060-01	Diuron-d6	101	P	30 - 160
USGS O-2060-01	Diuron-d6	89.0	P	30 - 160
USGS O-2060-01	Primidone-d5	93.7	P	30 - 160
USGS O-2060-01	Sucralose-d6	101	P	40 - 160

Lab Sample ID: 1947277

Field Sample ID: G2TLHR0002-2017-03

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	79.5	P	39 - 118
EPA 8270D	Decachlorobiphenyl	71.5	P	39 - 118
EPA 8270D	Tetrachloro-m-xylene	66.1	P	32 - 103
EPA 8270D	Tetrachloro-m-xylene	51.0	P	32 - 103
EPA 8276	Decachlorobiphenyl	64.9	P	31 - 100
EPA 8276	Decachlorobiphenyl	65.1	P	31 - 100

Lab Sample ID: 1947278

Field Sample ID: G2TLHR0016-2017-02

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	72.9	P	39 - 118

Quality Assurance Report Surrogates

Lab Sample ID: 1947278

Field Sample ID: G2TLHR0016-2017-02

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	88.9	P	39 - 118
EPA 8270D	Tetrachloro-m-xylene	61.3	P	32 - 103
EPA 8270D	Tetrachloro-m-xylene	79.8	P	32 - 103
EPA 8276	Decachlorobiphenyl	79.5	P	31 - 100
EPA 8276	Decachlorobiphenyl	55.2	P	31 - 100

Lab Sample ID: 1947279

Field Sample ID: G2TLHR0016-2017-02_DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	82.6	P	39 - 118
EPA 8270D	Tetrachloro-m-xylene	65.0	P	32 - 103
EPA 8276	Decachlorobiphenyl	73.9	P	31 - 100

Lab Sample ID: 1947280

Field Sample ID: G2TLHR0002-2017-03

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	86.4	P	53 - 135
EPA 8270D	Simazine-d10	84.6	P	71 - 126

Lab Sample ID: 1947281

Field Sample ID: G2TLHR0016-2017-02

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	84.0	P	53 - 135
EPA 8270D	Simazine-d10	85.6	P	71 - 126

Lab Sample ID: 1947282

Field Sample ID: G2TLHR0016-2017-02_DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	83.4	P	53 - 135
EPA 8270D	Simazine-d10	78.7	P	71 - 126

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A80230

Included Lab Sample IDs: 1947262, 1947263, 1947264

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A80322

Included Lab Sample IDs: 1947262, 1947263, 1947264

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A80322

Included Lab Sample IDs: 1947262, 1947263, 1947264

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A80325

Included Lab Sample IDs: 1947268

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	99.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A80349

Included Lab Sample IDs: 1947269, 1947270

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

Reference Method: SM 2120 B

Run ID: A80364

Included Lab Sample IDs: 1947262, 1947263, 1947264

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	104	P/P	85 - 115

Reference Method: EPA 8321B

Run ID: A80410

Included Lab Sample IDs: 1947274, 1947275, 1947276

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraclostrobin	104	106	P/P	60 - 150

Reference Method: EPA 8321B

Run ID: A80412

Included Lab Sample IDs: 1947274, 1947275, 1947276

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Glyphosate	105	106	P/P	70 - 160

Reference Method: USGS O-2060-01

Run ID: A80455

Included Lab Sample IDs: 1947274, 1947275, 1947276

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetaminophen	98.1	99.3	P/P	60 - 150
Carbamazepine	102	102	P/P	60 - 150
Diuron	103	104	P/P	60 - 150
Fenuron	104	106	P/P	60 - 150
Fluridone	106	111	P/P	60 - 160
Imidacloprid	93.4	92.2	P/P	60 - 150
Linuron	113	103	P/P	60 - 150
Primidone	104	101	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A80499

Included Lab Sample IDs: 1947283, 1947284, 1947285

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	100	96.7	P/P	90 - 110
Calcium	96.7	97.0	P/P	90 - 110
Iron	97.2	96.1	P/P	90 - 110
Iron	98.3	97.2	P/P	90 - 110
Magnesium	97.6	96.6	P/P	90 - 110
Magnesium	98.9	97.6	P/P	90 - 110
Potassium	98.5	98.6	P/P	90 - 110
Potassium	98.6	98.4	P/P	90 - 110
Sodium	96.7	97.1	P/P	90 - 110
Sodium	97.9	96.7	P/P	90 - 110
Zinc	98.7	99.4	P/P	90 - 110
Zinc	99.4	99.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A80516

Included Lab Sample IDs: 1947265, 1947266, 1947267

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

Reference Method: USGS O-2060-01

Run ID: A80527

Included Lab Sample IDs: 1947275, 1947276

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	80.8	81.6	P/P	50 - 150
Bentazon	122	120	P/P	50 - 150
MCP	84.3	80.9	P/P	50 - 150
Triclopyr	78.9	75.1	P/P	50 - 150

Reference Method: SM 4500 F-C-97

Run ID: A80534

Included Lab Sample IDs: 1947262, 1947263, 1947264

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	106	99.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A80536

Included Lab Sample IDs: 1947274

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	76.7	72.8	P/P	60 - 150

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A80548

Included Lab Sample IDs: 1947265, 1947266, 1947267

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

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-97

Run ID: A80565

Included Lab Sample IDs: 1947262, 1947263, 1947264

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.5	103	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A80568

Included Lab Sample IDs: 1947275, 1947276

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	118	117	P/P	60 - 150

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A80570

Included Lab Sample IDs: 1947283, 1947284, 1947285

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	103	104	P/P	90 - 110
Cadmium	103	104	P/P	90 - 110
Chromium	100	102	P/P	90 - 110
Copper	103	105	P/P	90 - 110
Lead	102	104	P/P	90 - 110
Nickel	104	106	P/P	90 - 110
Silver	104	106	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A80598

Included Lab Sample IDs: 1947265, 1947266, 1947267

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.4	96.7	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A80634

Included Lab Sample IDs: 1947279

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	85.1		P	80 - 120
Toxaphene	111		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A80655

Included Lab Sample IDs: 1947265, 1947266, 1947267

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A80668

Included Lab Sample IDs: 1947265, 1947266, 1947267

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	97.9	P/P	90 - 110
Kjeldahl Nitrogen	97.7	103	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A80682

Included Lab Sample IDs: 1947279

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	104		P	80 - 120
Alpha-BHC	97.7		P	80 - 120
Alpha-Chlordane	103		P	80 - 120
Beta-BHC	95.1		P	80 - 120
Carbophenothion	96.3		P	80 - 120
Chlorothalonil	111		P	80 - 120
Cypermethrin	110		P	80 - 120
DDD-p,p'	106		P	80 - 120
DDE-p,p'	107		P	80 - 120
DDT-p,p'	107		P	80 - 120
Delta-BHC	95.6		P	80 - 120
Dicofol	101		P	80 - 120
Dieldrin	101		P	80 - 120
Endosulfan I	101		P	80 - 120
Endosulfan II	105		P	80 - 120
Endosulfan Sulfate	98.5		P	80 - 120
Endrin	108		P	80 - 120
Endrin Aldehyde	102		P	80 - 120
Endrin Ketone	98.8		P	80 - 120
Gamma-BHC	84.8		P	80 - 120
Gamma-Chlordane	102		P	80 - 120
Heptachlor	100		P	80 - 120
Heptachlor Epoxide	103		P	80 - 120
Methoxychlor	107		P	80 - 120
Mirex	99.5		P	80 - 120
Permethrin	92.2		P	80 - 120
Trifluralin	100		P	80 - 120

Reference Method: USGS O-2060-01

Run ID: A80693

Included Lab Sample IDs: 1947274

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	92.3	91.6	P/P	50 - 150
Bentazon	110	102	P/P	50 - 150
MCPP	103	95.4	P/P	50 - 150
Triclopyr	92.6	93.3	P/P	50 - 150

Reference Method: EPA 8270D

Run ID: A80805

Included Lab Sample IDs: 1947280, 1947281, 1947282

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	102		P	80 - 120
Alachlor	102		P	80 - 120
Ametryn	104		P	80 - 120
Atrazine	93.9		P	80 - 120
Atrazine Desethyl	94.8		P	80 - 120
Azinphos Methyl	92.6		P	80 - 120
Bromacil	103		P	80 - 120
Butylate	98.8		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A80805

Included Lab Sample IDs: 1947280, 1947281, 1947282

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlorpyrifos Ethyl	98.7		P	80 - 120
Chlorpyrifos Methyl	98.0		P	80 - 120
Cyanazine	90.9		P	80 - 120
Demeton	95.0		P	80 - 120
Diazinon	96.1		P	80 - 120
Disulfoton	97.9		P	80 - 120
EPTC	103		P	80 - 120
Ethion	94.9		P	80 - 120
Ethoprop	102		P	80 - 120
Fenamiphos	94.9		P	80 - 120
Fipronil	99.8		P	80 - 120
Fipronil Sulfide	85.5		P	80 - 120
Fipronil Sulfone	96.9		P	80 - 120
Fonofos	96.0		P	80 - 120
Hexazinone	93.4		P	80 - 120
Malathion	95.7		P	80 - 120
Metalaxyl	102		P	80 - 120
Metolachlor	106		P	80 - 120
Metribuzin	86.7		P	80 - 120
Mevinphos	97.0		P	80 - 120
Molinate	95.3		P	80 - 120
Norflurazon	98.0		P	80 - 120
Parathion Ethyl	91.5		P	80 - 120
Parathion Methyl	91.7		P	80 - 120
Pendimethalin	87.8		P	80 - 120
Phorate	94.8		P	80 - 120
Prometon	100		P	80 - 120
Prometryn	102		P	80 - 120
Simazine	94.3		P	80 - 120
Terbufos	96.0		P	80 - 120
Terbutylazine	97.8		P	80 - 120

Reference Method: EPA 8270D

Run ID: A80868

Included Lab Sample IDs: 1947277, 1947278

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	97.0		P	80 - 120
Alpha-BHC	97.4		P	80 - 120
Alpha-Chlordane	97.6		P	80 - 120
Beta-BHC	105		P	80 - 120
Carbophenothion	90.5		P	80 - 120
Chlorothalonil	96.5		P	80 - 120
Cypermethrin	92.5		P	80 - 120
DDD-p,p'	103		P	80 - 120
DDE-p,p'	99.7		P	80 - 120
DDT-p,p'	107		P	80 - 120
Delta-BHC	99.6		P	80 - 120
Dicofol	105		P	80 - 120
Dieldrin	98.8		P	80 - 120
Endosulfan I	91.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A80868

Included Lab Sample IDs: 1947277, 1947278

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endosulfan II	107		P	80 - 120
Endosulfan Sulfate	98.5		P	80 - 120
Endrin	93.5		P	80 - 120
Endrin Aldehyde	91.9		P	80 - 120
Endrin Ketone	103		P	80 - 120
Gamma-BHC	91.4		P	80 - 120
Gamma-Chlordane	99.3		P	80 - 120
Heptachlor	93.4		P	80 - 120
Heptachlor Epoxide	99.2		P	80 - 120
Methoxychlor	106		P	80 - 120
Mirex	100		P	80 - 120
Permethrin	95.6		P	80 - 120
Trifluralin	98.2		P	80 - 120

Reference Method: EPA 8276

Run ID: A80885

Included Lab Sample IDs: 1947277, 1947278

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	108		P	80 - 120
Toxaphene	109		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			Precision SMP	MS
			LCS				
EPA 180.1 Rev. 2.0	Turbidity					3.12	
EPA 200.7 Rev. 4.4	Calcium	103	100	98.4	98.8		0.310
	Iron	102	99.9	97.5	97.8		0.292
	Magnesium	106	99.4	103	102		0.187
	Potassium	104	101	100	101		0.261
	Sodium	102	98.8	97.3	97.4		0.0790
	Zinc	97.0	97.7	96.1	96.8		0.687
EPA 200.8 Rev. 5.4	Arsenic	104	105	106	108		1.60
	Cadmium	105	107	107	109		1.41
	Chromium	102	102	105	106		1.58
	Copper	102	102	105	106		1.07
	Lead	103	104	106	107		1.62
	Nickel	104	104	106	106		0.0672
	Silver	107	106	108	108		0.196
EPA 300.0 Rev. 2.1	Chloride	96.5	95.6	93.7		0.489	
	Sulfate	97.7	96.3	96.2		0.618	
EPA 350.1 Rev. 2.0	Ammonia-N	97.8	91.9	95.4			3.26
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	96.6	97.4	96.9			0.420
EPA 353.2 Rev. 2.0	NO2NO3-N	105	102				0.345

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision	MS
							SMP	
EPA 365.1 Rev. 2.0	Total-P	99.0		106	99.3			6.76
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	107		100	104			3.26
EPA 8270D	Acetochlor	76.2	77.3	73.2	79.4	1.44		8.13
	Alachlor	77.1	78.9	79.6	75.4	2.42		5.49
	Aldrin	67.0	64.0	63.4	64.0	4.59		1.03
	Aldrin	61.5	62.7	72.2	72.9	1.94		0.902
	Alpha-BHC	102	107	106	107	4.59		0.628
	Alpha-BHC	94.4	97.0	98.5	90.9	2.72		7.99
	Alpha-Chlordane	102	100	102	95.3	1.19		6.50
	Alpha-Chlordane	98.7	94.5	84.4	82.8	4.30		2.00
	Ametryn	61.9	56.4	84.7	73.2	9.34		14.5
	Atrazine	78.1	82.8			5.79		6.04
	Atrazine Desethyl	99.9	103	78.9	68.5	3.16		11.6
	Azinphos Methyl	118	113	97.3	93.9	4.48		3.53
	Beta-BHC	107	113	107	108	5.28		0.796
	Beta-BHC	114	108	91.9	65.3	5.56		33.8
	Bromacil	81.9	81.9			0.0359		4.05
	Butylate	35.9	35.8	25.0	20.1	0.0994		21.4
	Carbophenothion	102	102	107	104	0.479		2.61
	Carbophenothion	92.1	87.7	91.8	68.9	4.88		28.5
	Chlorothalonil	113	117	189	199	3.36		5.17
	Chlorothalonil	73.7	49.7	50.6	72.5	38.9		35.7
	Chlorpyrifos Ethyl	82.9	80.8	79.3	70.3	2.50		12.0
	Chlorpyrifos Methyl	86.5	84.9	77.8	70.2	1.89		10.2
	Cyanazine	260	265	182	147	2.20		21.0
	Cypermethrin	121	128	130	135	5.24		3.50
	Cypermethrin	93.5	91.3	96.3	94.8	2.37		1.57
	DDD-p,p'	117	111	100	105	5.50		4.43
	DDD-p,p'	106	102	87.4	94.4	3.09		7.70
	DDE-p,p'	104	102	95.4	103	2.09		7.67
	DDE-p,p'	101	99.6	85.5	84.8	1.88		0.795
	DDT-p,p'	106	108	105	102	1.69		3.10
	DDT-p,p'	98.9	99.2	105	129	0.280		20.8
	Delta-BHC	133	136	145	127	2.36		13.3
	Delta-BHC	118	114	94.3	94.6	3.65		0.370
	Demeton	44.5	66.6	53.9	47.1	39.6		13.4
	Diazinon	72.9	72.8	71.4	62.4	0.0995		13.5
	Dicofol	71.0	68.3	61.8	58.0	3.89		6.37
	Dicofol	96.8	95.5	71.1	72.1	1.42		1.34
	Dieldrin	109	100	101	101	8.82		0.381
	Dieldrin	98.7	96.0	86.0	82.3	2.80		4.33
	Disulfoton	58.2	84.0	72.9	64.8	36.3		11.8
	Endosulfan I	108	104	103	109	4.14		5.45
	Endosulfan I	104	106	98.0	105	1.23		6.94
	Endosulfan II	114	103	108	110	9.53		1.35
	Endosulfan II	109	98.0	116	112	10.7		3.68
	Endosulfan Sulfate	104	104	112	107	0.112		4.56
	Endosulfan Sulfate	99.2	88.4	91.5	85.2	11.6		7.15
	Endrin	103	103	104	102	0.508		1.62
	Endrin	101	96.9	88.8	91.3	4.17		2.80
	Endrin Aldehyde	108	102	107	101	6.16		5.10
	Endrin Aldehyde	104	97.4	81.7	86.9	6.45		6.15
	Endrin Ketone	101	102	104	107	1.27		2.92
	Endrin Ketone	96.8	92.0	87.8	97.5	5.17		10.5

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	EPTC	31.5	34.2	24.8	21.3	8.23	15.3
	Ethion	75.1	86.1	88.0	84.3	13.7	4.20
	Ethoprop	77.2	76.7	71.5	63.0	0.608	12.5
	Fenamiphos	80.4	88.3	81.8	80.5	9.38	1.63
	Fipronil	76.6	79.3	73.0	71.7	3.51	1.27
	Fipronil Sulfide	71.9	73.6			2.38	6.87
	Fipronil Sulfone	75.6	77.7			2.75	7.01
	Fonofos	79.8	81.3	68.3	62.3	1.79	9.16
	Gamma-BHC	102	107	110	100	4.83	8.84
	Gamma-BHC	105	101	102	101	3.64	1.17
	Gamma-Chlordane	97.8	99.5	99.4	93.9	1.79	5.70
	Gamma-Chlordane	97.1	92.2	83.2	81.9	5.23	1.67
	Heptachlor	86.1	85.9	90.6	86.0	0.230	5.25
	Heptachlor	85.8	82.5	75.5	78.7	3.90	4.09
	Heptachlor Epoxide	102	100	102	97.1	1.94	5.30
	Heptachlor Epoxide	97.5	94.7	85.1	84.3	2.97	0.981
	Hexazinone	76.8	78.0	90.4	87.2	1.56	3.57
	Malathion	86.0	88.3	84.8	81.3	2.73	4.30
	Metalaxyl	70.6	71.0	72.5	69.6	0.476	4.04
	Methoxychlor	110	114	107	107	3.75	0.686
	Methoxychlor	105	101	113	95.2	3.99	16.9
	Metolachlor	77.7	79.3	81.2	73.7	2.01	9.62
	Metribuzin	135	144	177	160	6.31	10.2
	Mevinphos	61.3	61.9	51.2	49.4	0.974	3.52
	Mirex	84.7	92.0	91.1	87.7	8.24	3.76
	Mirex	84.8	81.2	83.5	79.4	4.26	5.03
	Molinate	37.0	38.5	32.6	30.3	3.79	7.23
	Norflurazon	75.2	78.7	71.2	76.0	4.55	6.57
	Parathion Ethyl	83.8	84.2	82.5	78.1	0.491	5.43
	Parathion Methyl	92.1	96.1	89.1	80.3	4.27	10.4
	Pendimethalin	79.5	81.7	84.0	77.6	2.78	7.95
	Permethrin	91.2	96.6	98.8	105	5.82	5.71
	Permethrin	89.4	90.8	92.1	129	1.53	33.7
	Phorate	60.4	66.5	52.5	46.9	9.63	11.3
	Prometon	72.9	75.3	90.2	97.9	3.20	8.21
	Prometryn	69.5	61.6	79.2	74.0	12.0	6.81
	Simazine	89.9	93.9			4.36	6.90
	Terbufos	69.8	77.3	70.5	60.5	10.2	15.3
	Terbutylazine	84.3	85.3	85.4	79.5	1.17	7.06
	Trifluralin	91.7	97.5	95.3	93.4	6.05	2.05
	Trifluralin	94.0	90.2	86.3	83.8	4.15	2.93
EPA 8276	Chlordane	66.6	73.8	55.1	57.7	10.3	3.94
	Chlordane	93.2	95.7	71.4	76.1	2.66	6.32
	Toxaphene	116	114	125	119	1.41	5.55
	Toxaphene	114	111	77.1	91.0	2.74	14.6
EPA 8321B	Glyphosate	124		128	128		0.234
	Pyraclostrobin	85.2		86.0	91.6		6.31
	Sucralose	100		55.4	114		27.9
SM 2120 B	Color (true)					0.188	
SM 2320 B-97	Total Alkalinity	101				0.128	
SM 2540 C-97	TDS					6.67	
SM 4500 F-C-97	Fluoride	94.3		97.5	97.0		0.487
SM 5310 B-00	Organic Carbon	95.2		95.8	95.4		0.362
USGS O-2060-01	2,4-D	84.9		97.5	88.0		10.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
USGS O-2060-01	2,4-D	113	75.9	83.8		9.89
	Acetaminophen	87.8	53.2	60.5		8.55
	Bentazon	83.3	75.5	79.0		4.27
	Bentazon	83.2	49.7	57.0		13.7
	Carbamazepine	104	90.9	101		10.6
	Diuron	90.0	50.7	51.1		0.747
	Fenuron	80.4	71.9	80.3		11.0
	Fluridone	91.1	72.0	76.4		5.95
	Imidacloprid	76.7	123	138		11.5
	Linuron	78.4	86.0	94.6		9.63
	MCPP	77.4	70.8	63.9		10.2
	MCPP	111	64.8	68.5		5.52
	Primidone	85.0	79.2	86.7		9.02
	Triclopyr	71.9	67.4	59.9		11.7
	Triclopyr	107	54.0	68.8		24.0

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1947262, 1947263, 1947264
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1947283, 1947284, 1947285
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1947283, 1947284, 1947285
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1947262, 1947263, 1947264
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1947262, 1947263, 1947264
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1947265, 1947266, 1947267
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1947265, 1947266, 1947267
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1947265, 1947266, 1947267
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1947265, 1947266, 1947267
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1947268, 1947269, 1947270
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	1947277, 1947278, 1947279
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1947280, 1947281, 1947282
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	1947277, 1947278, 1947279
EPA 8321B / E31780	Analysis of sucralose in water matrices by HPLC/MS/MS	1947274, 1947275, 1947276
EPA 8321B / E31780	Glyphosate in water matrices by HPLC/MS/MS	1947274, 1947275, 1947276
EPA 8321B / E31780	Pyraclostrobin in water matrices by HPLC/MS/MS	1947274, 1947275, 1947276
SM 2120 B / E31780	True Color measured at 450 nm	1947262, 1947263, 1947264
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1947262, 1947263, 1947264
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1947262, 1947263, 1947264
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1947262, 1947263, 1947264
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1947262, 1947263, 1947264
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1947265, 1947266, 1947267
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1947274, 1947275, 1947276
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1947274, 1947275, 1947276

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	11/16/2017			11/16/2017 16:18	DeAsia Armster	1947262, 1947263, 1947264
EPA 200.7 Rev. 4.4	11/16/2017	11/21/2017	Elliott D. Healy	11/22/2017	Martin Acosta	1947283, 1947284, 1947285
EPA 200.8 Rev. 5.4	11/16/2017	11/21/2017	Elliott D. Healy	11/27/2017	Nadine Brooks	1947283, 1947284, 1947285
EPA 300.0 Rev. 2.1	11/16/2017			11/17/2017	Irina Carbone	1947262, 1947263, 1947264
EPA 350.1 Rev. 2.0	11/16/2017			12/01/2017	Sofia Elnemr	1947265, 1947266, 1947267
EPA 351.2 Rev. 2.0	11/16/2017	11/29/2017	Adrian Shelby	12/01/2017	Tanya Welborn	1947265, 1947266, 1947267
EPA 353.2 Rev. 2.0	11/16/2017			11/27/2017	Beverly Y. Sanders	1947265, 1947266, 1947267
EPA 365.1 Rev. 2.0	11/16/2017	11/27/2017	Sima Feizi	11/28/2017	Lipi Saha	1947265, 1947266, 1947267
EPA 365.1 Rev. 2.0 dissolved	11/16/2017			11/16/2017 16:03	Megan Treadwell	1947268
	11/16/2017			11/17/2017 10:46	Megan Treadwell	1947269
	11/16/2017			11/17/2017 10:47	Megan Treadwell	1947270
EPA 8270D	11/16/2017	11/20/2017	Fe-Val Siddell	11/28/2017	Goutam Palui	1947279
	11/16/2017	11/20/2017	John Kaba	11/28/2017	Marek Topolski	1947280, 1947281, 1947282
	11/16/2017	12/07/2017	Fe-Val Siddell	12/08/2017	Goutam Palui	1947277, 1947278
EPA 8276	11/16/2017	11/20/2017	Fe-Val Siddell	11/29/2017	John P. Burgos	1947279
	11/16/2017	12/07/2017	Fe-Val Siddell	12/11/2017	John P. Burgos	1947277, 1947278
EPA 8321B	11/16/2017	11/20/2017	Mohammad Ghaffari	11/20/2017	Mohammad Ghaffari	1947274, 1947275, 1947276
	11/16/2017	11/22/2017	Mohammad Ghaffari	11/24/2017	Mohammad Ghaffari	1947274
	11/16/2017	11/22/2017	Mohammad Ghaffari	11/29/2017	Mohammad Ghaffari	1947275, 1947276
SM 2120 B	11/16/2017			11/17/2017 14:54	Tanya Welborn	1947262
	11/16/2017			11/17/2017 14:55	Tanya Welborn	1947263, 1947264
SM 2320 B-97	11/16/2017			11/28/2017	Dale L. Simmons	1947262, 1947263, 1947264
SM 2540 C-97	11/16/2017			11/17/2017	DeAsia Armster	1947262, 1947263, 1947264
SM 2540 D-97	11/16/2017			11/17/2017	DeAsia Armster	1947262, 1947263, 1947264
SM 4500 F-C-97	11/16/2017			11/28/2017	Dale L. Simmons	1947262, 1947263, 1947264
SM 5310 B-00	11/16/2017			11/28/2017	Ping Hua	1947265, 1947266, 1947267
USGS O-2060-01	11/16/2017	11/20/2017	Hoor Shaik	11/22/2017	Julie Michelle Frank	1947274, 1947275, 1947276
	11/16/2017	11/27/2017	Hoor Shaik	11/30/2017	Julie Michelle Frank	1947275, 1947276
	11/16/2017	12/04/2017	Hoor Shaik	12/04/2017	Julie Michelle Frank	1947274