

Chemical Analysis Report

SO-DIST-2017-08-23-02

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

Event Description: **Sarasota Streams**
Request ID: **RQ-2017-07-17-06**
Customer: **SO-DIST**
Project ID: **SMP**

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

For additional information please contact
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 18-SEP-2017 16:51

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

Case Narrative

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

Results for the following analytical groups are included in this report: 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: Walker Creek at 32nd Street

Collection Date/Time: 08/22/2017 09:30

Field ID: G2SD082217-1

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923359	EPA 180.1 Rev. 2.0	Turbidity	1.6		NTU	P330724	
	EPA 300.0 Rev. 2.1	Chloride	72		mg Cl/L	P330749	
		Sulfate	91		mg SO4/L	P330752	
	SM 2120 B	Color (true)	62	A	PCU	P330739	
	SM 2320 B-97	Total Alkalinity	188		mg CaCO3/L	P330956	
	SM 2540 C-97	TDS	495		mg/L	P331043	
	SM 2540 D-97	TSS	2	I	mg/L	P331176	
	SM 4500 F-C-97	Fluoride	0.66		mg F/L	P330958	
1923364	EPA 350.1 Rev. 2.0	Ammonia-N	0.023		mg N/L	P331008	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.76		mg N/L	P330781	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.26		mg N/L	P330848	
	EPA 365.1 Rev. 2.0	Total-P	0.23		mg P/L	P330789	
	SM 5310 B-00	Organic Carbon	15		mg C/L	P330910	
1923369	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.18		mg P/L	P330728	
1923446	EPA 200.7 Rev. 4.4	Calcium	83.3		mg/L	P330710	
		Iron	210		ug/L	P330710	
		Magnesium	22.6		mg/L	P330710	
		Potassium	3.4		mg/L	P330710	
		Sodium	48.6		mg/L	P330710	
	EPA 200.8 Rev. 5.4	Zinc	5.0	U	ug/L	P330710	
		Arsenic	3.32		ug/L	P330710	
		Cadmium	0.020	U	ug/L	P330710	
		Chromium	0.72	I	ug/L	P330710	
		Copper	1.19		ug/L	P330710	
		Lead	0.13	I	ug/L	P330710	
		Nickel	1.09		ug/L	P330710	
		Silver	0.010	U	ug/L	P330710	

Ref. Method and Comment:

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: Walker Creek at 32nd Street

Collection Date/Time: 08/22/2017 09:30

Field ID: G2SD082217-1

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923409	EPA 8321B	Glyphosate**	2.4		ug/L	P330738	
		Pyraclostrobin**	0.0020	U	ug/L	P330680	
		Sucralose**	0.25		ug/L	P330689	
	USGS O-2060-01	2,4-D	0.016		ug/L	P330679	
		Diuron	0.0036		ug/L	P330679	
		Fenuron	0.0080	U	ug/L	P330679	
		Imidacloprid	0.021		ug/L	P330679	MS
		Bentazon	0.0028	I	ug/L	P330679	
		Linuron	0.0040	U	ug/L	P330679	

Field ID: G2SD082217-1

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923409	USGS O-2060-01	Acetaminophen**	0.0080	U	ug/L	P330679	
		MCP	0.0031	I	ug/L	P330679	
		Carbamazepine**	0.0044		ug/L	P330679	MS
		Triclopyr**	0.0040	U	ug/L	P330679	
		Primidone**	0.013	I	ug/L	P330679	
		Fluridone**	0.57		ug/L	P330679	
1923423	EPA 8270D	Aldrin	4.4	U	ng/L	P330746	
		Alpha-BHC	2.2	U	ng/L	P330746	
		Beta-BHC	4.4	U	ng/L	P330746	
		Delta-BHC	4.4	U	ng/L	P330746	
		Gamma-BHC	4.4	U	ng/L	P330746	
		Carbophenothion	4.4	U	ng/L	P330746	
		Chlorothalonil	2.2	U	ng/L	P330746	
		Cypermethrin	22	U	ng/L	P330746	
		DDD-p,p'	3.3	U	ng/L	P330746	
		DDE-p,p'	3.3	U	ng/L	P330746	
		DDT-p,p'	3.3	U	ng/L	P330746	
		Dieldrin	4.4	U	ng/L	P330746	
		Endosulfan I	4.4	U	ng/L	P330746	
		Endosulfan II	4.4	U	ng/L	P330746	
		Endosulfan Sulfate	2.2	U	ng/L	P330746	
		Endrin	2.2	UJ	ng/L	P330746	RPD
		Endrin Aldehyde	2.2	U	ng/L	P330746	RPD
		Heptachlor	1.6	U	ng/L	P330746	
		Heptachlor Epoxide	2.2	U	ng/L	P330746	
		Methoxychlor	4.4	U	ng/L	P330746	
		Mirex	2.2	U	ng/L	P330746	
		Permethrin	11	U	ng/L	P330746	
		Trifluralin	1.1	U	ng/L	P330746	
		Alpha-Chlordane	1.1	U	ng/L	P330746	
		Gamma-Chlordane	1.1	U	ng/L	P330746	
		Endrin Ketone	2.2	U	ng/L	P330746	
		Dicofol	33	U	ng/L	P330746	RPD
		Chlordane**	3.5	I	ng/L	P330746	
		Toxaphene**	14	U	ng/L	P330746	
1923428	EPA 8270D	Alachlor	0.24	U	ng/L	P330733	
		Ametryn	0.32	U	ng/L	P330733	
		Atrazine	0.51	I	ng/L	P330733	
		Atrazine Desethyl	1.5	U	ng/L	P330733	
		Azinphos Methyl	2.2	U	ng/L	P330733	
		Bromacil	0.49	U	ng/L	P330733	
		Butylate	0.39	U	ng/L	P330733	RPD
		Chlorpyrifos Ethyl	0.24	U	ng/L	P330733	
		Chlorpyrifos Methyl	0.097	U	ng/L	P330733	
		Demeton	1.9	U	ng/L	P330733	

Field ID: G2SD082217-1

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923428	EPA 8270D	Diazinon	0.12	U	ng/L	P330733	
		Disulfoton	0.49	U	ng/L	P330733	
		EPTC	1.2	U	ng/L	P330733	RPD
		Ethion	0.15	U	ng/L	P330733	
		Ethoprop	0.097	U	ng/L	P330733	
		Fenamiphos	0.24	U	ng/L	P330733	
		Fipronil	0.24	U	ng/L	P330733	
		Fipronil Sulfide	0.15	U	ng/L	P330733	
		Fipronil Sulfone	0.15	U	ng/L	P330733	
		Hexazinone	0.52	I	ng/L	P330733	
		Malathion	0.34	U	ng/L	P330733	
		Metribuzin	0.19	UJ	ng/L	P330733	CCV, MS
		Mevinphos	0.49	U	ng/L	P330733	
		Molinate	0.29	U	ng/L	P330733	
		Norflurazon	0.49	U	ng/L	P330733	
		Pendimethalin	0.97	U	ng/L	P330733	
		Phorate	0.24	U	ng/L	P330733	
		Prometon	0.88	U	ng/L	P330733	
		Prometryn	0.19	U	ng/L	P330733	
		Simazine	0.49	U	ng/L	P330733	
		Terbufos	0.097	U	ng/L	P330733	
		Terbuthylazine	0.41	U	ng/L	P330733	
		Fonofos	0.19	U	ng/L	P330733	
		Metalaxyl	0.19	U	ng/L	P330733	
		Metolachlor	3.1		ng/L	P330733	
		Acetochlor	0.34	I	ng/L	P330733	
		Cyanazine	0.49	U	ng/L	P330733	
		Parathion Ethyl	0.24	U	ng/L	P330733	
		Parathion Methyl	0.24	U	ng/L	P330733	

Ref. Method and Comment:

EPA 8321B: Results confirmed in re-extraction.

EPA 8270D: MS accuracy for Dieldrin not assessed due to high content of this parameter in the sample spiked. Refer to the narrative for an explanation of QC Codes.

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

Sample Location: Indian Creek @ Fruitville Rd.

Collection Date/Time: 08/22/2017 10:20

Field ID: G2SD082217-2

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923360	EPA 180.1 Rev. 2.0	Turbidity	7.1		NTU	P330724	
	EPA 300.0 Rev. 2.1	Chloride	12		mg Cl/L	P330749	
		Sulfate	33		mg SO4/L	P330752	
	SM 2120 B	Color (true)	300		PCU	P330739	
	SM 2320 B-97	Total Alkalinity	49		mg CaCO3/L	P330956	
	SM 2540 C-97	TDS	180		mg/L	P331043	
	SM 2540 D-97	TSS	8	I	mg/L	P331176	
	SM 4500 F-C-97	Fluoride	0.35		mg F/L	P330958	

Field ID: G2SD082217-2

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923365	EPA 350.1 Rev. 2.0	Ammonia-N	0.25		mg N/L	P331008	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.6		mg N/L	P330781	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.12		mg N/L	P330848	
	EPA 365.1 Rev. 2.0	Total-P	0.80		mg P/L	P330789	
	SM 5310 B-00	Organic Carbon	25		mg C/L	P330910	
1923370	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.59		mg P/L	P330728	
1923447	EPA 200.7 Rev. 4.4	Calcium	23.2		mg/L	P330710	
		Iron	2.78E+03		ug/L	P330710	
		Magnesium	9.64		mg/L	P330710	
		Potassium	2.5		mg/L	P330710	
		Sodium	8.2		mg/L	P330710	
	EPA 200.8 Rev. 5.4	Zinc	5.0	U	ug/L	P330710	
		Arsenic	2.80		ug/L	P330710	
		Cadmium	0.020	U	ug/L	P330710	
		Chromium	1.3	I	ug/L	P330710	
		Copper	1.40		ug/L	P330710	
		Lead	0.35		ug/L	P330710	
		Nickel	0.61	I	ug/L	P330710	
		Silver	0.010	U	ug/L	P330710	

Ref. Method and Comment:

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: Indian Creek @ Fruitville Rd.

Collection Date/Time: 08/22/2017 10:20

Field ID: G2SD082217-2

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923410	EPA 8321B	Glyphosate**	0.50	U	ug/L	P330738	
		Pyraclostrobin**	0.0020	U	ug/L	P330680	
		Sucralose**	0.020	U	ug/L	P330689	
	USGS O-2060-01	2,4-D	0.0020	U	ug/L	P330679	
		Diuron	8.0E-04	U	ug/L	P330679	
		Fenuron	0.0080	U	ug/L	P330679	
		Imidacloprid	0.010		ug/L	P330679	MS
		Bentazon	8.0E-04	U	ug/L	P330679	
		Linuron	0.0040	U	ug/L	P330679	
		Acetaminophen**	0.0080	U	ug/L	P330679	
		MCP	0.0020	U	ug/L	P330679	
		Carbamazepine**	4.0E-04	U	ug/L	P330679	MS
		Triclopyr**	0.0040	U	ug/L	P330679	
		Primidone**	0.0040	U	ug/L	P330679	
		Fluridone**	4.0E-04	U	ug/L	P330679	
1923424	EPA 8270D	Aldrin	4.2	U	ng/L	P330746	
		Alpha-BHC	2.1	U	ng/L	P330746	
		Beta-BHC	4.2	U	ng/L	P330746	
		Delta-BHC	4.2	U	ng/L	P330746	

Field ID: G2SD082217-2

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923424	EPA 8270D	Gamma-BHC	4.2	U	ng/L	P330746	
		Carbophenothion	4.2	U	ng/L	P330746	
		Chlorothalonil	2.1	U	ng/L	P330746	
		Cypermethrin	21	U	ng/L	P330746	
		DDD-p,p'	3.2	U	ng/L	P330746	
		DDE-p,p'	3.2	U	ng/L	P330746	
		DDT-p,p'	3.2	U	ng/L	P330746	
		Dieldrin	4.2	U	ng/L	P330746	
		Endosulfan I	4.2	U	ng/L	P330746	
		Endosulfan II	4.2	U	ng/L	P330746	
		Endosulfan Sulfate	2.1	U	ng/L	P330746	
		Endrin	2.1	UJ	ng/L	P330746	RPD
		Endrin Aldehyde	2.1	U	ng/L	P330746	RPD
		Heptachlor	1.6	U	ng/L	P330746	
		Heptachlor Epoxide	2.1	U	ng/L	P330746	
		Methoxychlor	4.2	U	ng/L	P330746	
		Mirex	2.1	U	ng/L	P330746	
		Permethrin	11	U	ng/L	P330746	
		Trifluralin	1.1	U	ng/L	P330746	
		Alpha-Chlordane	1.1	U	ng/L	P330746	
		Gamma-Chlordane	1.1	U	ng/L	P330746	
		Endrin Ketone	2.1	U	ng/L	P330746	
		Dicofol	32	U	ng/L	P330746	RPD
		Chlordane**	5.4	I	ng/L	P330746	
		Toxaphene**	13	U	ng/L	P330746	
1923429	EPA 8270D	Alachlor	0.24	U	ng/L	P330733	
		Ametryn	0.31	U	ng/L	P330733	
		Atrazine	0.24	U	ng/L	P330733	
		Atrazine Desethyl	1.4	U	ng/L	P330733	
		Azinphos Methyl	2.1	U	ng/L	P330733	
		Bromacil	0.48	U	ng/L	P330733	
		Butylate	0.38	U	ng/L	P330733	RPD
		Chlorpyrifos Ethyl	0.24	U	ng/L	P330733	
		Chlorpyrifos Methyl	0.095	U	ng/L	P330733	
		Demeton	1.9	U	ng/L	P330733	
		Diazinon	0.12	U	ng/L	P330733	
		Disulfoton	0.48	U	ng/L	P330733	
		EPTC	1.2	U	ng/L	P330733	RPD
		Ethion	0.14	U	ng/L	P330733	
		Ethoprop	0.095	U	ng/L	P330733	
		Fenamiphos	0.24	U	ng/L	P330733	
		Fipronil	0.24	U	ng/L	P330733	
		Fipronil Sulfide	0.14	U	ng/L	P330733	
		Fipronil Sulfone	0.14	U	ng/L	P330733	
		Hexazinone	0.48	U	ng/L	P330733	

Field ID: G2SD082217-2

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923429	EPA 8270D	Malathion	0.33	U	ng/L	P330733	CCV, MS
		Metribuzin	0.19	UJ	ng/L	P330733	
		Mevinphos	0.48	U	ng/L	P330733	
		Molinate	0.29	U	ng/L	P330733	
		Norflurazon	0.99	I	ng/L	P330733	
		Pendimethalin	0.95	U	ng/L	P330733	
		Phorate	0.24	U	ng/L	P330733	
		Prometon	0.86	U	ng/L	P330733	
		Prometryn	0.19	U	ng/L	P330733	
		Simazine	0.48	U	ng/L	P330733	
		Terbufos	0.095	U	ng/L	P330733	
		Terbuthylazine	0.40	U	ng/L	P330733	
		Fonofos	0.19	U	ng/L	P330733	
		Metalaxyl	0.19	U	ng/L	P330733	
		Metolachlor	3.8		ng/L	P330733	
		Acetochlor	0.24	U	ng/L	P330733	
		Cyanazine	0.48	U	ng/L	P330733	
		Parathion Ethyl	0.24	U	ng/L	P330733	
		Parathion Methyl	0.24	U	ng/L	P330733	

Ref. Method and Comment:

EPA 8321B: MDL elevated due to matrix interference.

EPA 8270D: MS accuracy for Dieldrin not assessed due to high content of this parameter in the sample spiked. Refer to the narrative for an explanation of QC Codes.

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

Sample Location: Howard Creek N.E. Branch Lot 185

Collection Date/Time: 08/22/2017 11:10

Field ID: G2SD082217-3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923361	EPA 180.1 Rev. 2.0	Turbidity	15		NTU	P330724	
	EPA 300.0 Rev. 2.1	Chloride	22		mg Cl/L	P330749	
		Sulfate	7.1		mg SO4/L	P330752	
	SM 2120 B	Color (true)	250	A	PCU	P330743	
	SM 2320 B-97	Total Alkalinity	55		mg CaCO3/L	P330857	
	SM 2540 C-97	TDS	171		mg/L	P331043	
	SM 2540 D-97	TSS	11		mg/L	P331176	
	SM 4500 F-C-97	Fluoride	0.38		mg F/L	P330960	
1923366	EPA 350.1 Rev. 2.0	Ammonia-N	0.14		mg N/L	P331008	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P330781	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.16		mg N/L	P330848	
	EPA 365.1 Rev. 2.0	Total-P	0.83		mg P/L	P330789	
	SM 5310 B-00	Organic Carbon	25		mg C/L	P330910	
1923371	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.51		mg P/L	P330728	
1923448	EPA 200.7 Rev. 4.4	Calcium	23.3		mg/L	P330710	
		Iron	4.30E+03		ug/L	P330710	
		Magnesium	7.78		mg/L	P330710	

Field ID: G2SD082217-3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923448	EPA 200.7 Rev. 4.4	Potassium	0.98	I	mg/L	P330710	
		Sodium	10.6		mg/L	P330710	
		Zinc	5.0	U	ug/L	P330710	
	EPA 200.8 Rev. 5.4	Arsenic	3.92		ug/L	P330710	
		Cadmium	0.020	U	ug/L	P330710	
		Chromium	2.1		ug/L	P330710	
		Copper	0.51	I	ug/L	P330710	
		Lead	0.48		ug/L	P330710	
		Nickel	1.10		ug/L	P330710	
		Silver	0.010	U	ug/L	P330710	

Ref. Method and Comment:

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: Howard Creek N.E. Branch Lot 185

Collection Date/Time: 08/22/2017 11:10

Field ID: G2SD082217-3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923411	EPA 8321B	Glyphosate**	0.50	U	ug/L	P330738	
		Pyraclostrobin**	0.0020	U	ug/L	P330680	
		Sucralose**	0.11		ug/L	P330689	
	USGS O-2060-01	2,4-D	0.0020	U	ug/L	P330679	
		Diuron	8.0E-04	U	ug/L	P330679	
		Fenuron	0.0080	U	ug/L	P330679	
		Imidacloprid	0.0078		ug/L	P330679	MS
		Bentazon	0.0013	I	ug/L	P330679	
		Linuron	0.0040	U	ug/L	P330679	
		Acetaminophen**	0.0080	U	ug/L	P330679	
		MCP	0.0020	U	ug/L	P330679	
		Carbamazepine**	4.0E-04	U	ug/L	P330679	MS
		Triclopyr**	0.0040	U	ug/L	P330679	
		Primidone**	0.0040	U	ug/L	P330679	
		Fluridone**	4.0E-04	U	ug/L	P330679	
1923425	EPA 8270D	Aldrin	4.2	UJ	ng/L	P330732	RPD
		Alpha-BHC	2.1	U	ng/L	P330732	
		Beta-BHC	4.2	U	ng/L	P330732	
		Delta-BHC	4.2	U	ng/L	P330732	
		Gamma-BHC	4.2	U	ng/L	P330732	
		Carbophenothion	4.2	U	ng/L	P330732	RPD
		Chlorothalonil	2.1	U	ng/L	P330732	
		Cypermethrin	21	U	ng/L	P330732	
		DDD-p,p'	3.1	U	ng/L	P330732	
		DDE-p,p'	3.1	U	ng/L	P330732	
		DDT-p,p'	3.1	U	ng/L	P330732	
		Dieldrin	4.2	U	ng/L	P330732	
		Endosulfan I	4.2	U	ng/L	P330732	

Field ID: G2SD082217-3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923425	EPA 8270D	Endosulfan II	4.2	U	ng/L	P330732	
		Endosulfan Sulfate	2.1	U	ng/L	P330732	
		Endrin	2.1	U	ng/L	P330732	
		Endrin Aldehyde	2.1	U	ng/L	P330732	RPD
		Heptachlor	1.6	U	ng/L	P330732	
		Heptachlor Epoxide	2.1	U	ng/L	P330732	
		Methoxychlor	4.2	U	ng/L	P330732	
		Mirex	2.1	U	ng/L	P330732	
		Permethrin	10	U	ng/L	P330732	
		Trifluralin	1.0	U	ng/L	P330732	RPD
		Alpha-Chlordane	1.0	U	ng/L	P330732	
		Gamma-Chlordane	1.0	U	ng/L	P330732	
		Endrin Ketone	2.1	U	ng/L	P330732	
		Dicofol	31	UJ	ng/L	P330732	CCV
		Chlordane**	2.6	U	ng/L	P330732	
1923430	EPA 8276	Toxaphene**	13	U	ng/L	P330732	
		Alachlor	0.24	U	ng/L	P330733	
		Ametryn	1.2	I	ng/L	P330733	
	EPA 8270D	Atrazine	6.6		ng/L	P330733	
		Atrazine Desethyl	1.4	U	ng/L	P330733	
		Azinphos Methyl	2.2	U	ng/L	P330733	
		Bromacil	0.48	U	ng/L	P330733	
		Butylate	0.39	U	ng/L	P330733	RPD
		Chlorpyrifos Ethyl	0.24	U	ng/L	P330733	
		Chlorpyrifos Methyl	0.096	U	ng/L	P330733	
		Demeton	1.9	U	ng/L	P330733	
		Diazinon	0.12	U	ng/L	P330733	
		Disulfoton	0.48	U	ng/L	P330733	
		EPTC	1.2	U	ng/L	P330733	RPD
		Ethion	0.14	U	ng/L	P330733	
		Ethoprop	0.096	U	ng/L	P330733	
		Fenamiphos	0.24	U	ng/L	P330733	
		Fipronil	0.24	U	ng/L	P330733	
		Fipronil Sulfide	0.27	I	ng/L	P330733	
		Fipronil Sulfone	0.61		ng/L	P330733	
		Hexazinone	0.96	I	ng/L	P330733	
		Malathion	0.34	U	ng/L	P330733	
		Metribuzin	0.19	UJ	ng/L	P330733	CCV, MS
		Mevinphos	0.48	U	ng/L	P330733	
		Molinate	0.29	U	ng/L	P330733	
		Norflurazon	0.48	U	ng/L	P330733	
		Pendimethalin	0.96	U	ng/L	P330733	
		Phorate	0.24	U	ng/L	P330733	
		Prometon	0.87	U	ng/L	P330733	
		Prometryn	0.19	U	ng/L	P330733	

Field ID: G2SD082217-3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923430	EPA 8270D	Simazine	0.48	U	ng/L	P330733	
		Terbufos	0.096	U	ng/L	P330733	
		Terbuthylazine	0.41	U	ng/L	P330733	
		Fonofos	0.19	U	ng/L	P330733	
		Metalaxyl	0.19	U	ng/L	P330733	
		Metolachlor	1.2		ng/L	P330733	
		Acetochlor	0.24	U	ng/L	P330733	
		Cyanazine	0.48	U	ng/L	P330733	
		Parathion Ethyl	0.24	U	ng/L	P330733	
		Parathion Methyl	0.24	U	ng/L	P330733	

Ref. Method and Comment:

EPA 8270D: Refer to the narrative for an explanation of QC Codes. MS accuracy for Heptachlor Epoxide and Dieldrin not assessed due to high content of these parameters in the sample spiked.

Sample Location: North Creek by Oaks Creek Ct.

Collection Date/Time: 08/22/2017 12:15

Field ID: G2SD082217-4

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923362	EPA 180.1 Rev. 2.0	Turbidity	10		NTU	P330724	
	EPA 300.0 Rev. 2.1	Chloride	100		mg Cl/L	P330749	
		Sulfate	380		mg SO4/L	P330752	
	SM 2120 B	Color (true)	78		PCU	P330739	
	SM 2320 B-97	Total Alkalinity	335		mg CaCO3/L	P330857	
	SM 2540 C-97	TDS	1.05E+03		mg/L	P331043	
	SM 2540 D-97	TSS	12		mg/L	P331176	
	SM 4500 F-C-97	Fluoride	0.46		mg F/L	P330960	
1923367	EPA 350.1 Rev. 2.0	Ammonia-N	0.061		mg N/L	P331008	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P330784	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.40		mg N/L	P330849	
	EPA 365.1 Rev. 2.0	Total-P	0.29		mg P/L	P330789	
	SM 5310 B-00	Organic Carbon	18		mg C/L	P330910	
1923372	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.12		mg P/L	P330728	
1923449	EPA 200.7 Rev. 4.4	Calcium	235		mg/L	P330710	
		Iron	1.50E+03		ug/L	P330710	
		Magnesium	46.0		mg/L	P330710	
		Potassium	7.1		mg/L	P330710	
		Sodium	67.8		mg/L	P330710	
		Zinc	5.0	U	ug/L	P330710	
	EPA 200.8 Rev. 5.4	Arsenic	7.63		ug/L	P330710	
		Cadmium	0.020	U	ug/L	P330710	
		Chromium	0.84	I	ug/L	P330710	
		Copper	3.39		ug/L	P330710	
		Lead	0.20	I	ug/L	P330710	
		Nickel	1.12		ug/L	P330710	
		Silver	0.010	U	ug/L	P330710	

Field ID: G2SD082217-4

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
Ref. Method and Comment:							
SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.							
SM 5310 B-00: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.							

Sample Location: North Creek by Oaks Creek Ct.

Collection Date/Time: 08/22/2017 12:15

Field ID: G2SD082217-4

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923412	EPA 8321B	Glyphosate**	7.2		ug/L	P330738	
		Pyraclostrobin**	0.0020	U	ug/L	P330680	
		Sucralose**	0.32		ug/L	P330689	
	USGS O-2060-01	2,4-D	0.82		ug/L	P330679	
		Diuron	8.0E-04	U	ug/L	P330679	
		Fenuron	0.0080	U	ug/L	P330679	
		Imidacloprid	0.057		ug/L	P330679	MS
		Bentazon	0.020		ug/L	P330679	
		Linuron	0.0040	U	ug/L	P330679	
		Acetaminophen**	0.0080	U	ug/L	P330679	
		MCP	0.0023	I	ug/L	P330679	
		Carbamazepine**	5.2E-04	I	ug/L	P330679	MS
		Triclopyr**	0.0040	U	ug/L	P330679	
		Primidone**	0.0069	I	ug/L	P330679	
		Fluridone**	0.16		ug/L	P330679	
1923426	EPA 8270D	Aldrin	4.2	UJ	ng/L	P330732	RPD
		Alpha-BHC	2.1	U	ng/L	P330732	
		Beta-BHC	4.2	U	ng/L	P330732	
		Delta-BHC	4.2	U	ng/L	P330732	
		Gamma-BHC	4.2	U	ng/L	P330732	
		Carbophenothion	4.2	U	ng/L	P330732	RPD
		Chlorothalonil	2.1	U	ng/L	P330732	
		Cypermethrin	21	U	ng/L	P330732	
		DDD-p,p'	3.1	U	ng/L	P330732	
		DDE-p,p'	3.1	U	ng/L	P330732	
		DDT-p,p'	3.1	U	ng/L	P330732	
		Dieldrin	4.2	U	ng/L	P330732	
		Endosulfan I	4.2	U	ng/L	P330732	
		Endosulfan II	4.2	U	ng/L	P330732	
		Endosulfan Sulfate	2.1	U	ng/L	P330732	
		Endrin	2.1	U	ng/L	P330732	
		Endrin Aldehyde	2.1	U	ng/L	P330732	RPD
		Heptachlor	1.6	U	ng/L	P330732	
		Heptachlor Epoxide	2.1	U	ng/L	P330732	
		Methoxychlor	4.2	U	ng/L	P330732	
		Mirex	2.1	U	ng/L	P330732	
		Permethrin	10	U	ng/L	P330732	
		Trifluralin	1.0	U	ng/L	P330732	RPD

Field ID: G2SD082217-4

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923426	EPA 8270D	Alpha-Chlordane	1.0	U	ng/L	P330732	
		Gamma-Chlordane	1.0	U	ng/L	P330732	
		Endrin Ketone	2.1	U	ng/L	P330732	
		Dicofol	31	UJ	ng/L	P330732	CCV
	EPA 8276	Chlordane**	2.6	U	ng/L	P330732	
		Toxaphene**	13	U	ng/L	P330732	
1923431	EPA 8270D	Alachlor	0.25	U	ng/L	P330733	
		Ametryn	2.8		ng/L	P330733	
		Atrazine	1.1		ng/L	P330733	
		Atrazine Desethyl	1.5	U	ng/L	P330733	
		Azinphos Methyl	2.2	U	ng/L	P330733	
		Bromacil	0.50	U	ng/L	P330733	
		Butylate	0.40	U	ng/L	P330733	RPD
		Chlorpyrifos Ethyl	0.25	U	ng/L	P330733	
		Chlorpyrifos Methyl	0.099	U	ng/L	P330733	
		Demeton	2.0	U	ng/L	P330733	
		Diazinon	0.12	U	ng/L	P330733	
		Disulfoton	0.50	U	ng/L	P330733	
		EPTC	1.2	U	ng/L	P330733	RPD
		Ethion	0.15	U	ng/L	P330733	
		Ethoprop	0.099	U	ng/L	P330733	
		Fenamiphos	0.25	U	ng/L	P330733	
		Fipronil	0.25	U	ng/L	P330733	
		Fipronil Sulfide	0.81		ng/L	P330733	
		Fipronil Sulfone	3.1		ng/L	P330733	
		Hexazinone	3.5		ng/L	P330733	
		Malathion	0.35	U	ng/L	P330733	
		Metribuzin	0.20	UJ	ng/L	P330733	CCV, MS
		Mevinphos	0.50	U	ng/L	P330733	
		Molinate	0.30	U	ng/L	P330733	
		Norflurazon	0.50	U	ng/L	P330733	
		Pendimethalin	0.99	U	ng/L	P330733	
		Phorate	0.25	U	ng/L	P330733	
		Prometon	0.89	U	ng/L	P330733	
		Prometryn	0.20	U	ng/L	P330733	
		Simazine	0.50	U	ng/L	P330733	
		Terbufos	0.099	U	ng/L	P330733	
		Terbuthylazine	0.42	U	ng/L	P330733	
		Fonofos	0.20	U	ng/L	P330733	
		Metalaxyl	0.20	U	ng/L	P330733	
		Metolachlor	0.25	I	ng/L	P330733	
		Acetochlor	0.25	U	ng/L	P330733	
		Cyanazine	0.50	U	ng/L	P330733	
		Parathion Ethyl	0.25	U	ng/L	P330733	
		Parathion Methyl	0.25	U	ng/L	P330733	

Field ID: G2SD082217-4

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
Ref. Method and Comment:							
EPA 8321B: Results confirmed in re-extraction.							
EPA 8270D: Refer to the narrative for an explanation of QC Codes. MS accuracy for Heptachlor Epoxide and Dieldrin not assessed due to high content of these parameters in the sample spiked.							

Sample Location: Field Blank

Collection Date/Time: 08/22/2017 11:25

Field ID: G2SD082217-5

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923363	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P330724	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P330749	
		Sulfate	0.20	U	mg SO4/L	P330752	
	SM 2120 B	Color (true)	2.5	U	PCU	P330739	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P330857	
	SM 2540 C-97	TDS	15	U	mg/L	P331042	
	SM 2540 D-97	TSS	2	U	mg/L	P331175	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P330960	
1923368	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P331008	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P330784	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P330849	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P330789	
	SM 5310 B-00	Organic Carbon	0.50	U	mg C/L	P330910	
1923373	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P330728	
1923450	EPA 200.7 Rev. 4.4	Calcium	0.075	U	mg/L	P330710	
		Iron	30	U	ug/L	P330710	
		Magnesium	0.040	U	mg/L	P330710	
		Potassium	0.30	U	mg/L	P330710	
		Sodium	0.50	U	mg/L	P330710	
		Zinc	5.0	U	ug/L	P330710	
	EPA 200.8 Rev. 5.4	Arsenic	0.050	U	ug/L	P330710	
		Cadmium	0.020	U	ug/L	P330710	
		Chromium	0.40	U	ug/L	P330710	
		Copper	0.20	U	ug/L	P330710	
		Lead	0.050	U	ug/L	P330710	
		Nickel	0.20	U	ug/L	P330710	
		Silver	0.010	U	ug/L	P330710	

Ref. Method and Comment:
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: Field Blank

Collection Date/Time: 08/22/2017 11:25

Field ID: G2SD082217-5

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923427	EPA 8270D	Aldrin	4.1	UJ	ng/L	P330732	RPD
		Alpha-BHC	2.1	U	ng/L	P330732	
		Beta-BHC	4.1	U	ng/L	P330732	

Field ID: G2SD082217-5

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923427	EPA 8270D	Delta-BHC	4.1	U	ng/L	P330732	
		Gamma-BHC	4.1	U	ng/L	P330732	
		Carbophenothion	4.1	U	ng/L	P330732	RPD
		Chlorothalonil	2.1	U	ng/L	P330732	
		Cypermethrin	21	U	ng/L	P330732	
		DDD-p,p'	3.1	U	ng/L	P330732	
		DDE-p,p'	3.1	U	ng/L	P330732	
		DDT-p,p'	3.1	U	ng/L	P330732	
		Dieldrin	4.1	U	ng/L	P330732	
		Endosulfan I	4.1	U	ng/L	P330732	
		Endosulfan II	4.1	U	ng/L	P330732	
		Endosulfan Sulfate	2.1	U	ng/L	P330732	
		Endrin	2.1	U	ng/L	P330732	
		Endrin Aldehyde	2.1	U	ng/L	P330732	RPD
		Heptachlor	1.6	U	ng/L	P330732	
		Heptachlor Epoxide	2.1	U	ng/L	P330732	
		Methoxychlor	4.1	U	ng/L	P330732	
		Mirex	2.1	U	ng/L	P330732	
		Permethrin	10	U	ng/L	P330732	
		Trifluralin	1.0	U	ng/L	P330732	RPD
		Alpha-Chlordane	1.0	U	ng/L	P330732	
		Gamma-Chlordane	1.0	U	ng/L	P330732	
		Endrin Ketone	2.1	U	ng/L	P330732	
		Dicofol	31	UJ	ng/L	P330732	CCV
		Chlordane**	2.6	U	ng/L	P330732	
		Toxaphene**	13	U	ng/L	P330732	
1923432	EPA 8270D	Alachlor	0.24	U	ng/L	P330733	
		Ametryn	0.31	U	ng/L	P330733	
		Atrazine	0.24	U	ng/L	P330733	
		Atrazine Desethyl	1.4	U	ng/L	P330733	
		Azinphos Methyl	2.2	U	ng/L	P330733	
		Bromacil	0.48	U	ng/L	P330733	
		Butylate	0.38	U	ng/L	P330733	RPD
		Chlorpyrifos Ethyl	0.24	U	ng/L	P330733	
		Chlorpyrifos Methyl	0.096	U	ng/L	P330733	
		Demeton	1.9	U	ng/L	P330733	
		Diazinon	0.12	U	ng/L	P330733	
		Disulfoton	0.48	U	ng/L	P330733	
		EPTC	1.2	U	ng/L	P330733	RPD
		Ethion	0.14	U	ng/L	P330733	
		Ethoprop	0.096	U	ng/L	P330733	
		Fenamiphos	0.24	U	ng/L	P330733	
		Fipronil	0.24	U	ng/L	P330733	
		Fipronil Sulfide	0.14	U	ng/L	P330733	
		Fipronil Sulfone	0.14	U	ng/L	P330733	

Field ID: G2SD082217-5

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923432	EPA 8270D	Hexazinone	0.48	U	ng/L	P330733	CCV, MS
		Malathion	0.34	U	ng/L	P330733	
		Metribuzin	0.19	UJ	ng/L	P330733	
		Mevinphos	0.48	U	ng/L	P330733	
		Molinate	0.29	U	ng/L	P330733	
		Norflurazon	0.48	U	ng/L	P330733	
		Pendimethalin	0.96	U	ng/L	P330733	
		Phorate	0.24	U	ng/L	P330733	
		Prometon	0.87	U	ng/L	P330733	
		Prometryn	0.19	U	ng/L	P330733	
		Simazine	0.48	U	ng/L	P330733	
		Terbufos	0.096	U	ng/L	P330733	
		Terbuthylazine	0.41	U	ng/L	P330733	
		Fonofos	0.19	U	ng/L	P330733	
		Metalaxyl	0.19	U	ng/L	P330733	
		Metolachlor	0.24	U	ng/L	P330733	
		Acetochlor	0.24	U	ng/L	P330733	
		Cyanazine	0.48	U	ng/L	P330733	
		Parathion Ethyl	0.24	U	ng/L	P330733	
		Parathion Methyl	0.24	U	ng/L	P330733	

Ref. Method and Comment:

EPA 8270D: Refer to the narrative for an explanation of QC Codes. MS accuracy for Heptachlor Epoxide and Dieldrin not assessed due to high content of these parameters in the sample spiked.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P330724

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P330710

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: P330710

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: P330710

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: P330749

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P330752

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331008

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P330781

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P330784

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P330848

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P330849

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P330789

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P330728

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

Reference Method: EPA 8270D
Batch ID: P330732

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

Reference Method: EPA 8270D
Batch ID: P330733

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D
Batch ID: P330733

Component	Result	Code	Units
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	1.0	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
Terbuthylazine	0.42	U	ng/L

Reference Method: EPA 8270D
Batch ID: P330746

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D
Batch ID: P330746

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 8276
Batch ID: P330732

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

Reference Method: EPA 8276
Batch ID: P330746

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

Reference Method: EPA 8321B
Batch ID: P330680

Component	Result	Code	Units
Pyraclostrobin	0.0020	U	ug/L

Reference Method: EPA 8321B
Batch ID: P330689

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B
Batch ID: P330738

Component	Result	Code	Units
Glyphosate	0.50	U	ug/L

Reference Method: SM 2120 B
Batch ID: P330739

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P330743

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P330857

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2320 B-97
Batch ID: P330956

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-97
Batch ID: P331042

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P331043

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P331175

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P331176

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P330958

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P330960

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P330910

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

Quality Assurance Report Method Blank Results

Reference Method: USGS O-2060-01
Batch ID: P330679

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
MCPP	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: P330710

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	101		P	85 - 115
Iron	108		P	85 - 115
Magnesium	101		P	85 - 115
Potassium	95.7		P	85 - 115
Sodium	98.5		P	85 - 115
Zinc	102		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P330710

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	104		P	85 - 115
Cadmium	98.4		P	85 - 115
Chromium	97.4		P	85 - 115
Copper	99.5		P	85 - 115
Lead	99.5		P	85 - 115
Nickel	101		P	85 - 115
Silver	103		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P330749

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P330752

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331008

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P330781

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P330784

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P330848

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	106		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P330849

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	106		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P330789

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	96.4		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P330728

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

Reference Method: EPA 8270D
Batch ID: P330732

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	33.0	47.9	P/P	26 - 88.0
Alpha-BHC	79.4	80.9	P/P	63 - 114
Alpha-Chlordane	80.1	83.3	P/P	56 - 117
Beta-BHC	87.8	87.0	P/P	57 - 138
Carbophenothion	71.1	93.6	P/P	36 - 148
Chlorothalonil	53.0	55.6	P/P	26 - 173
Cypermethrin	74.1	79.4	P/P	42 - 159
DDD-p,p'	81.3	83.0	P/P	62 - 126
DDE-p,p'	77.8	83.1	P/P	53 - 115
DDT-p,p'	79.8	82.0	P/P	54 - 117

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P330732

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Delta-BHC	94.5	88.6	P/P	68 - 158
Dicofol	77.3	61.9	P/P	25 - 114
Dieldrin	77.5	80.6	P/P	59 - 126
Endosulfan I	80.8	84.4	P/P	62 - 138
Endosulfan II	83.9	83.1	P/P	61 - 150
Endosulfan Sulfate	77.4	74.1	P/P	63 - 132
Endrin	80.4	74.7	P/P	49 - 148
Endrin Aldehyde	77.5	75.8	P/P	50 - 144
Endrin Ketone	78.3	79.2	P/P	66 - 122
Gamma-BHC	86.5	87.1	P/P	60 - 137
Gamma-Chlordane	77.9	81.0	P/P	54 - 113
Heptachlor	67.1	69.6	P/P	43 - 104
Heptachlor Epoxide	78.2	79.9	P/P	64 - 118
Methoxychlor	82.5	87.7	P/P	63 - 129
Mirex	65.6	70.9	P/P	39 - 93.0
Permethrin	73.6	79.3	P/P	51 - 123
Trifluralin	97.8	108	P/P	35 - 187

Reference Method: EPA 8270D
Batch ID: P330733

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	98.0	89.3	P/P	78 - 118
Alachlor	97.6	92.7	P/P	77 - 119
Ametryn	92.2	106	P/P	61 - 136
Atrazine	87.5	87.1	P/P	73 - 120
Atrazine Desethyl	90.8	97.4	P/P	16 - 122
Azinphos Methyl	113	109	P/P	69 - 186
Bromacil	93.9	90.9	P/P	40 - 125
Butylate	50.3	51.0	P/P	32 - 87.0
Chlorpyrifos Ethyl	87.9	83.5	P/P	53 - 110
Chlorpyrifos Methyl	90.8	88.7	P/P	31 - 119
Cyanazine	156	146	P/P	36 - 224
Demeton	75.7	68.3	P/P	39 - 122
Diazinon	92.7	89.5	P/P	75 - 119
Disulfoton	86.7	87.7	P/P	42 - 139
EPTC	45.6	47.4	P/P	33 - 96.0
Ethion	85.5	82.3	P/P	63 - 127
Ethoprop	69.4	70.7	P/P	65 - 107
Fenamiphos	93.5	91.0	P/P	64 - 137
Fipronil	102	96.6	P/P	60 - 126
Fipronil Sulfide	92.2	82.8	P/P	58 - 124
Fipronil Sulfone	78.3	74.4	P/P	57 - 126
Fonofos	78.3	84.5	P/P	65 - 111
Hexazinone	87.2	81.7	P/P	46 - 151
Malathion	87.3	83.3	P/P	68 - 132
Metalaxyl	92.5	83.9	P/P	51 - 132
Metolachlor	91.1	85.7	P/P	78 - 119
Metribuzin	98.4	122	P/P	58 - 148
Mevinphos	70.7	72.1	P/P	34 - 128
Molinate	48.4	49.0	P/P	44 - 101
Norflurazon	93.7	89.3	P/P	63 - 129

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270D

Batch ID: P330733

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Parathion Ethyl	85.3	85.4	P/P	80 - 109
Parathion Methyl	98.4	96.3	P/P	74 - 125
Pendimethalin	75.7	72.5	P/P	48 - 134
Phorate	68.9	75.1	P/P	52 - 119
Prometon	90.6	83.2	P/P	69 - 124
Prometryn	101	90.5	P/P	66 - 124
Simazine	89.6	95.1	P/P	61 - 134
Terbufos	79.1	79.6	P/P	58 - 115
Terbutylazine	82.5	81.1	P/P	77 - 113

Reference Method: EPA 8270D

Batch ID: P330746

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	49.1	49.5	P/P	26 - 88.0
Alpha-BHC	75.1	84.5	P/P	63 - 114
Alpha-Chlordane	85.0	85.1	P/P	56 - 117
Beta-BHC	91.6	101	P/P	57 - 138
Carbophenothion	75.6	84.1	P/P	36 - 148
Chlorothalonil	99.2	79.5	P/P	26 - 173
Cypermethrin	88.3	88.6	P/P	42 - 159
DDD-p,p'	92.7	92.1	P/P	62 - 126
DDE-p,p'	86.5	83.9	P/P	53 - 115
DDT-p,p'	79.8	83.9	P/P	54 - 117
Delta-BHC	118	123	P/P	68 - 158
Dicofol	42.2	44.9	P/P	25 - 114
Dieldrin	89.8	87.8	P/P	59 - 126
Endosulfan I	94.5	94.2	P/P	62 - 138
Endosulfan II	97.8	96.4	P/P	61 - 150
Endosulfan Sulfate	86.6	91.5	P/P	63 - 132
Endrin	66.7	90.4	P/P	49 - 148
Endrin Aldehyde	112	108	P/P	50 - 144
Endrin Ketone	96.5	86.6	P/P	66 - 122
Gamma-BHC	87.5	93.0	P/P	60 - 137
Gamma-Chlordane	83.8	83.3	P/P	54 - 113
Heptachlor	67.1	70.7	P/P	43 - 104
Heptachlor Epoxide	85.4	86.3	P/P	64 - 118
Methoxychlor	94.0	95.9	P/P	63 - 129
Mirex	64.8	66.1	P/P	39 - 93.0
Permethrin	76.5	76.3	P/P	51 - 123
Trifluralin	108	113	P/P	35 - 187

Reference Method: EPA 8276

Batch ID: P330732

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	110	102	P/P	48 - 121
Toxaphene	107	98.2	P/P	43 - 135

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P330746

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	101	106	P/P	48 - 121
Toxaphene	108	118	P/P	43 - 135

Reference Method: EPA 8321B
Batch ID: P330680

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pyraclostrobin	119		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P330689

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	93.5		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P330738

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Glyphosate	102		P	40 - 150

Reference Method: SM 2320 B-97
Batch ID: P330857

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

Reference Method: SM 2320 B-97
Batch ID: P330956

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

Reference Method: SM 4500 F-C-97
Batch ID: P330958

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.5		P	92 - 103

Reference Method: SM 4500 F-C-97
Batch ID: P330960

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P330910

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.4		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: USGS O-2060-01
Batch ID: P330679

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	134		P	40 - 150
Acetaminophen	117		P	30 - 150
Bentazon	87.2		P	40 - 150
Carbamazepine	128		P	40 - 150
Diuron	141		P	40 - 150
Fenuron	144		P	40 - 150
Fluridone	126		P	40 - 150
Imidacloprid	137		P	40 - 160
Linuron	119		P	40 - 150
MCPP	103		P	40 - 150
Primidone	133		P	40 - 150
Triclopyr	85.6		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P330710

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1922957	Calcium	98.9		P	80 - 120
1922957	Iron	107		P	80 - 120
1922957	Magnesium	102		P	80 - 120
1922957	Potassium	98.0		P	80 - 120
1922957	Sodium	98.3		P	80 - 120
1922957	Zinc	101		P	80 - 120
1923027	Calcium	104		P	80 - 120
1923027	Iron	110	110	P/P	80 - 120
1923027	Magnesium	104		P	80 - 120
1923027	Potassium	94.6		P	80 - 120
1923027	Sodium	99.2		P	80 - 120
1923027	Zinc	102	103	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P330710

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1922957	Arsenic	108		P	80 - 120
1922957	Cadmium	104		P	80 - 120
1922957	Chromium	98.7		P	80 - 120
1922957	Copper	98.1		P	80 - 120
1922957	Lead	103		P	80 - 120
1922957	Nickel	100		P	80 - 120
1922957	Silver	107		P	80 - 120
1923027	Arsenic	106	107	P/P	80 - 120
1923027	Cadmium	104	105	P/P	80 - 120
1923027	Chromium	98.7	101	P/P	80 - 120
1923027	Copper	97.7	99.8	P/P	80 - 120
1923027	Lead	104	105	P/P	80 - 120
1923027	Nickel	100	102	P/P	80 - 120
1923027	Silver	105	106	P/P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P330749

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923333	Chloride	96.5		P	90 - 110
1923478	Chloride	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P330752

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923333	Sulfate	98.2		P	90 - 110
1923478	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331008

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923364	Ammonia-N	103	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P330781

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923339	Kjeldahl Nitrogen	103	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P330784

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923481	Kjeldahl Nitrogen	95.0	95.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P330848

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923278	NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P330849

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923408	NO2NO3-N	102	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P330789

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923339	Total-P	97.2	98.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P330728

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923340	O-Phosphate-P	94.4	95.8	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P330732

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1924296	Aldrin	50.1	60.0	P/P	22 - 97.0
1924296	Alpha-BHC	83.0	77.6	P/P	43 - 132
1924296	Alpha-Chlordane	80.0	80.7	P/P	36 - 126
1924296	Beta-BHC	95.6	77.9	P/P	41 - 150
1924296	Carbophenothion	90.3	59.1	P/P	13 - 196
1924296	Chlorothalonil	79.0	82.4	P/P	10 - 266
1924296	Cypermethrin	75.4	58.9	P/P	37 - 161
1924296	DDD-p,p'	78.8	69.4	P/P	44 - 131
1924296	DDE-p,p'	81.5	81.0	P/P	32 - 127
1924296	DDT-p,p'	82.5	76.2	P/P	45 - 116
1924296	Delta-BHC	111	87.2	P/P	50 - 201
1924296	Dicofol	44.8	34.3	P/P	10 - 100
1924296	Endosulfan I	80.8	82.4	P/P	51 - 139
1924296	Endosulfan II	90.1	90.6	P/P	49 - 155
1924296	Endosulfan Sulfate	69.6	65.4	P/P	54 - 136
1924296	Endrin	72.6	69.5	P/P	38 - 141
1924296	Endrin Aldehyde	52.2	74.3	P/P	14 - 152
1924296	Endrin Ketone	76.0	73.7	P/P	60 - 128
1924296	Gamma-BHC	93.9	75.4	P/P	48 - 157
1924296	Gamma-Chlordane	78.6	78.2	P/P	35 - 123
1924296	Heptachlor	68.3	70.5	P/P	25 - 112
1924296	Methoxychlor	85.4	79.6	P/P	52 - 127
1924296	Mirex	70.4	66.9	P/P	25 - 108
1924296	Permethrin	76.3	66.9	P/P	46 - 133
1924296	Trifluralin	145	107	P/P	29 - 254

Reference Method: EPA 8270D
Batch ID: P330733

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923026	Acetochlor	89.2	95.3	P/P	74 - 123
1923026	Alachlor	86.7	92.3	P/P	73 - 124
1923026	Ametryn	94.8	97.1	P/P	56 - 149
1923026	Atrazine	88.0	94.0	P/P	73 - 124
1923026	Atrazine Desethyl	76.4	87.2	P/P	12 - 103
1923026	Azinphos Methyl	103	104	P/P	60 - 202
1923026	Bromacil	105	94.0	P/P	42 - 133
1923026	Butylate	24.8	38.7	P/P	10 - 85.0
1923026	Chlorpyrifos Ethyl	76.8	84.1	P/P	53 - 113
1923026	Chlorpyrifos Methyl	83.5	86.9	P/P	40 - 115
1923026	Cyanazine	115	127	P/P	22 - 210
1923026	Demeton	82.7	84.3	P/P	17 - 149
1923026	Diazinon	92.9	99.7	P/P	72 - 124
1923026	Disulfoton	90.6	100	P/P	43 - 139
1923026	EPTC	24.9	35.5	P/P	10 - 86.0
1923026	Ethion	87.3	91.9	P/P	65 - 131
1923026	Ethoprop	72.5	77.8	P/P	59 - 110
1923026	Fenamiphos	86.3	80.8	P/P	57 - 138
1923026	Fipronil	104	105	P/P	40 - 130
1923026	Fipronil Sulfide	88.4	89.9	P/P	36 - 128
1923026	Fipronil Sulfone	74.4	76.0	P/P	16 - 145
1923026	Fonofos	75.3	88.6	P/P	60 - 112

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P330733

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923026	Hexazinone	88.9	91.1	P/P	69 - 142
1923026	Malathion	78.1	82.9	P/P	68 - 132
1923026	Metalaxyl	87.8	88.0	P/P	66 - 118
1923026	Metolachlor	87.1	91.1	P/P	71 - 124
1923026	Metribuzin	150	161	F/F	61 - 140
1923026	Mevinphos	66.3	73.6	P/P	38 - 130
1923026	Molinate	33.0	41.4	P/P	23 - 99.0
1923026	Norflurazon	98.0	93.3	P/P	39 - 139
1923026	Parathion Ethyl	86.0	86.1	P/P	75 - 111
1923026	Parathion Methyl	96.7	100	P/P	64 - 130
1923026	Pendimethalin	80.5	81.4	P/P	26 - 173
1923026	Phorate	70.8	76.5	P/P	43 - 127
1923026	Prometon	92.2	100	P/P	50 - 144
1923026	Prometryn	96.3	101	P/P	69 - 126
1923026	Simazine	95.0	103	P/P	51 - 152
1923026	Terbufos	79.5	88.6	P/P	54 - 125
1923026	Terbutylazine	82.4	84.6	P/P	76 - 113

Reference Method: EPA 8270D
Batch ID: P330746

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923194	Aldrin	62.2	61.7	P/P	22 - 97.0
1923194	Alpha-BHC	82.8	94.4	P/P	43 - 132
1923194	Alpha-Chlordane	85.5	97.1	P/P	36 - 126
1923194	Beta-BHC	102	134	P/P	41 - 150
1923194	Carbophenothion	91.3	105	P/P	13 - 196
1923194	Chlorothalonil	116	117	P/P	10 - 266
1923194	Cypermethrin	95.3	108	P/P	37 - 161
1923194	DDD-p,p'	89.9	109	P/P	44 - 131
1923194	DDE-p,p'	88.3	96.9	P/P	32 - 127
1923194	DDT-p,p'	81.4	88.1	P/P	45 - 116
1923194	Delta-BHC	143	164	P/P	50 - 201
1923194	Dicofol	23.2	36.3	P/P	10 - 100
1923194	Endosulfan I	99.9	113	P/P	51 - 139
1923194	Endosulfan II	103	121	P/P	49 - 155
1923194	Endosulfan Sulfate	77.4	104	P/P	54 - 136
1923194	Endrin	78.5	99.4	P/P	38 - 141
1923194	Endrin Aldehyde	68.3	118	P/P	14 - 152
1923194	Endrin Ketone	86.8	103	P/P	60 - 128
1923194	Gamma-BHC	117	110	P/P	48 - 157
1923194	Gamma-Chlordane	83.0	95.7	P/P	35 - 123
1923194	Heptachlor	67.7	70.8	P/P	25 - 112
1923194	Heptachlor Epoxide	92.4	106	P/P	48 - 125
1923194	Methoxychlor	90.7	99.2	P/P	52 - 127
1923194	Mirex	68.7	72.5	P/P	25 - 108
1923194	Permethrin	80.6	86.6	P/P	46 - 133
1923194	Trifluralin	140	156	P/P	29 - 254

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8276
Batch ID: P330732

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1924366	Chlordane	98.6	103	P/P	44 - 134
1924366	Toxaphene	102	110	P/P	36 - 147

Reference Method: EPA 8276
Batch ID: P330746

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1922737	Chlordane	92.6	101	P/P	44 - 134
1922737	Toxaphene	104	109	P/P	36 - 147

Reference Method: EPA 8321B
Batch ID: P330680

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923412	Pyraclostrobin	120	115	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P330689

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923138	Sucralose	111	106	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P330738

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923017	Glyphosate	92.6	95.6	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P330958

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923276	Fluoride	101	102	P/P	91 - 105

Reference Method: SM 4500 F-C-97
Batch ID: P330960

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923361	Fluoride	100	100	P/P	91 - 105

Reference Method: USGS O-2060-01
Batch ID: P330679

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923137	2,4-D	138	130	P/P	40 - 150
1923137	Acetaminophen	109	112	P/P	30 - 150
1923137	Bentazon	51.6	52.6	P/P	40 - 150
1923137	Carbamazepine	155	153	F/F	40 - 150
1923137	Diuron	113	122	P/P	40 - 150
1923137	Fenuron	113	128	P/P	40 - 150
1923137	Fluridone	94.5	110	P/P	40 - 150
1923137	Imidacloprid	220	235	F/F	40 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: USGS O-2060-01
Batch ID: P330679

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923137	Linuron	110	126	P/P	40 - 150
1923137	MCCP	99.5	111	P/P	40 - 150
1923137	Primidone	129	145	P/P	40 - 150
1923137	Triclopyr	101	106	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P330724

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923333	Turbidity	4.06	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P330710

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923027	Calcium	0.0484	Spike	P	0 - 20
1923027	Iron	0.316	Spike	P	0 - 20
1923027	Magnesium	0.0659	Spike	P	0 - 20
1923027	Potassium	0.00705	Spike	P	0 - 20
1923027	Sodium	0.278	Spike	P	0 - 20
1923027	Zinc	0.746	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P330710

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923027	Arsenic	1.37	Spike	P	0 - 20
1923027	Cadmium	1.13	Spike	P	0 - 20
1923027	Chromium	1.91	Spike	P	0 - 20
1923027	Copper	2.04	Spike	P	0 - 20
1923027	Lead	0.962	Spike	P	0 - 20
1923027	Nickel	1.56	Spike	P	0 - 20
1923027	Silver	1.40	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P330749

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923333	Chloride	3.90	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P330752

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923333	Sulfate	2.52	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331008

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923364	Ammonia-N	1.93	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P330781

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923339	Kjeldahl Nitrogen	0.221	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P330784

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923481	Kjeldahl Nitrogen	0.136	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P330848

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923278	NO2NO3-N	0.466	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P330849

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923408	NO2NO3-N	0.743	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P330789

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923339	Total-P	1.72	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P330728

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923340	O-Phosphate-P	1.47	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P330732

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1924296	Aldrin	18.0	Spike	P	0 - 30
1924296	Alpha-BHC	6.63	Spike	P	0 - 30
1924296	Alpha-Chlordane	0.608	Spike	P	0 - 30
1924296	Beta-BHC	20.4	Spike	P	0 - 30
1924296	Carbophenothion	41.8	Spike	F	0 - 30
1924296	Chlorothalonil	4.29	Spike	P	0 - 30
1924296	Cypermethrin	24.5	Spike	P	0 - 30
1924296	DDD-p,p'	12.8	Spike	P	0 - 30
1924296	DDE-p,p'	0.550	Spike	P	0 - 30
1924296	DDT-p,p'	7.98	Spike	P	0 - 30
1924296	Delta-BHC	24.1	Spike	P	0 - 30
1924296	Dicofol	26.5	Spike	P	0 - 30
1924296	Dieldrin	3.24	Spike	P	0 - 30
1924296	Endosulfan I	1.87	Spike	P	0 - 30
1924296	Endosulfan II	0.585	Spike	P	0 - 30
1924296	Endosulfan Sulfate	6.17	Spike	P	0 - 30
1924296	Endrin	4.29	Spike	P	0 - 30
1924296	Endrin Aldehyde	34.8	Spike	F	0 - 30
1924296	Endrin Ketone	2.51	Spike	P	0 - 30
1924296	Gamma-BHC	21.9	Spike	P	0 - 30
1924296	Gamma-Chlordane	0.424	Spike	P	0 - 30
1924296	Heptachlor	3.16	Spike	P	0 - 30
1924296	Heptachlor Epoxide	1.61	Spike	P	0 - 30
1924296	Methoxychlor	7.02	Spike	P	0 - 30
1924296	Mirex	5.10	Spike	P	0 - 30
1924296	Permethrin	13.1	Spike	P	0 - 30
1924296	Trifluralin	30.4	Spike	F	0 - 30
LFB	Aldrin	36.7	LCS	F	0 - 30
LFB	Alpha-BHC	1.86	LCS	P	0 - 30
LFB	Alpha-Chlordane	3.97	LCS	P	0 - 30
LFB	Beta-BHC	0.974	LCS	P	0 - 30
LFB	Carbophenothion	27.4	LCS	P	0 - 30
LFB	Chlorothalonil	4.86	LCS	P	0 - 30
LFB	Cypermethrin	6.98	LCS	P	0 - 30
LFB	DDD-p,p'	1.97	LCS	P	0 - 30
LFB	DDE-p,p'	6.66	LCS	P	0 - 30
LFB	DDT-p,p'	2.74	LCS	P	0 - 30
LFB	Delta-BHC	6.51	LCS	P	0 - 30
LFB	Dicofol	22.2	LCS	P	0 - 30
LFB	Dieldrin	3.93	LCS	P	0 - 30
LFB	Endosulfan I	4.37	LCS	P	0 - 30
LFB	Endosulfan II	1.01	LCS	P	0 - 30
LFB	Endosulfan Sulfate	4.28	LCS	P	0 - 30
LFB	Endrin	7.38	LCS	P	0 - 30
LFB	Endrin Aldehyde	2.19	LCS	P	0 - 30
LFB	Endrin Ketone	1.09	LCS	P	0 - 30
LFB	Gamma-BHC	0.685	LCS	P	0 - 30
LFB	Gamma-Chlordane	3.79	LCS	P	0 - 30
LFB	Heptachlor	3.78	LCS	P	0 - 30
LFB	Heptachlor Epoxide	2.16	LCS	P	0 - 30
LFB	Methoxychlor	6.09	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P330732

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Mirex	7.79	LCS	P	0 - 30
LFB	Permethrin	7.52	LCS	P	0 - 30
LFB	Trifluralin	9.84	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P330733

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923026	Acetochlor	6.70	Spike	P	0 - 30
1923026	Alachlor	6.24	Spike	P	0 - 30
1923026	Ametryn	2.40	Spike	P	0 - 30
1923026	Atrazine	5.43	Spike	P	0 - 30
1923026	Atrazine Desethyl	13.3	Spike	P	0 - 30
1923026	Azinphos Methyl	1.26	Spike	P	0 - 30
1923026	Bromacil	10.7	Spike	P	0 - 30
1923026	Butylate	43.9	Spike	F	0 - 30
1923026	Chlorpyrifos Ethyl	6.79	Spike	P	0 - 30
1923026	Chlorpyrifos Methyl	4.05	Spike	P	0 - 30
1923026	Cyanazine	10.1	Spike	P	0 - 30
1923026	Demeton	1.91	Spike	P	0 - 30
1923026	Diazinon	6.99	Spike	P	0 - 30
1923026	Disulfoton	10.1	Spike	P	0 - 30
1923026	EPTC	35.1	Spike	F	0 - 30
1923026	Ethion	5.12	Spike	P	0 - 30
1923026	Ethoprop	6.94	Spike	P	0 - 30
1923026	Fenamiphos	6.63	Spike	P	0 - 30
1923026	Fipronil	0.945	Spike	P	0 - 30
1923026	Fipronil Sulfide	1.63	Spike	P	0 - 30
1923026	Fipronil Sulfone	2.20	Spike	P	0 - 30
1923026	Fonofos	16.2	Spike	P	0 - 30
1923026	Hexazinone	2.44	Spike	P	0 - 30
1923026	Malathion	6.05	Spike	P	0 - 30
1923026	Metalaxyl	0.166	Spike	P	0 - 30
1923026	Metolachlor	3.99	Spike	P	0 - 30
1923026	Metribuzin	6.59	Spike	P	0 - 30
1923026	Mevinphos	10.5	Spike	P	0 - 30
1923026	Molinate	22.4	Spike	P	0 - 30
1923026	Norflurazon	4.98	Spike	P	0 - 30
1923026	Parathion Ethyl	0.0871	Spike	P	0 - 30
1923026	Parathion Methyl	3.42	Spike	P	0 - 30
1923026	Pendimethalin	1.20	Spike	P	0 - 30
1923026	Phorate	7.85	Spike	P	0 - 30
1923026	Prometon	8.08	Spike	P	0 - 30
1923026	Prometryn	5.08	Spike	P	0 - 30
1923026	Simazine	8.15	Spike	P	0 - 30
1923026	Terbufos	10.8	Spike	P	0 - 30
1923026	Terbuthylazine	2.69	Spike	P	0 - 30
LFB	Acetochlor	9.29	LCS	P	0 - 30
LFB	Alachlor	5.10	LCS	P	0 - 30
LFB	Ametryn	13.5	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P330733

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Atrazine	0.505	LCS	P	0 - 30
LFB	Atrazine Desethyl	6.95	LCS	P	0 - 30
LFB	Azinphos Methyl	4.19	LCS	P	0 - 30
LFB	Bromacil	3.27	LCS	P	0 - 30
LFB	Butylate	1.39	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	5.14	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	2.34	LCS	P	0 - 30
LFB	Cyanazine	6.39	LCS	P	0 - 30
LFB	Demeton	10.2	LCS	P	0 - 30
LFB	Diazinon	3.53	LCS	P	0 - 30
LFB	Disulfoton	1.21	LCS	P	0 - 30
LFB	EPTC	3.76	LCS	P	0 - 30
LFB	Ethion	3.81	LCS	P	0 - 30
LFB	Ethoprop	1.94	LCS	P	0 - 30
LFB	Fenamiphos	2.65	LCS	P	0 - 30
LFB	Fipronil	5.34	LCS	P	0 - 30
LFB	Fipronil Sulfide	10.7	LCS	P	0 - 30
LFB	Fipronil Sulfone	5.19	LCS	P	0 - 30
LFB	Fonofos	7.61	LCS	P	0 - 30
LFB	Hexazinone	6.58	LCS	P	0 - 30
LFB	Malathion	4.73	LCS	P	0 - 30
LFB	Metaxyl	9.75	LCS	P	0 - 30
LFB	Metolachlor	6.13	LCS	P	0 - 30
LFB	Metribuzin	21.7	LCS	P	0 - 30
LFB	Mevinphos	1.96	LCS	P	0 - 30
LFB	Molinate	1.21	LCS	P	0 - 30
LFB	Norflurazon	4.77	LCS	P	0 - 30
LFB	Parathion Ethyl	0.129	LCS	P	0 - 30
LFB	Parathion Methyl	2.08	LCS	P	0 - 30
LFB	Pendimethalin	4.30	LCS	P	0 - 30
LFB	Phorate	8.62	LCS	P	0 - 30
LFB	Prometon	8.61	LCS	P	0 - 30
LFB	Prometryn	10.5	LCS	P	0 - 30
LFB	Simazine	5.88	LCS	P	0 - 30
LFB	Terbufos	0.640	LCS	P	0 - 30
LFB	Terbuthylazine	1.78	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P330746

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923194	Aldrin	0.764	Spike	P	0 - 30
1923194	Alpha-BHC	13.1	Spike	P	0 - 30
1923194	Alpha-Chlordane	11.7	Spike	P	0 - 30
1923194	Beta-BHC	27.6	Spike	P	0 - 30
1923194	Carbophenothion	13.6	Spike	P	0 - 30
1923194	Chlorothalonil	1.36	Spike	P	0 - 30
1923194	Cypermethrin	12.5	Spike	P	0 - 30
1923194	DDD-p,p'	18.7	Spike	P	0 - 30
1923194	DDE-p,p'	9.31	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P330746

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923194	DDT-p,p'	7.97	Spike	P	0 - 30
1923194	Delta-BHC	13.1	Spike	P	0 - 30
1923194	Dicofol	44.1	Spike	F	0 - 30
1923194	Dieldrin	16.1	Spike	P	0 - 30
1923194	Endosulfan I	12.0	Spike	P	0 - 30
1923194	Endosulfan II	16.5	Spike	P	0 - 30
1923194	Endosulfan Sulfate	29.7	Spike	P	0 - 30
1923194	Endrin	23.5	Spike	P	0 - 30
1923194	Endrin Aldehyde	53.3	Spike	F	0 - 30
1923194	Endrin Ketone	17.3	Spike	P	0 - 30
1923194	Gamma-BHC	5.92	Spike	P	0 - 30
1923194	Gamma-Chlordane	13.3	Spike	P	0 - 30
1923194	Heptachlor	4.58	Spike	P	0 - 30
1923194	Heptachlor Epoxide	14.1	Spike	P	0 - 30
1923194	Methoxychlor	8.95	Spike	P	0 - 30
1923194	Mirex	5.39	Spike	P	0 - 30
1923194	Permethrin	7.12	Spike	P	0 - 30
1923194	Trifluralin	10.8	Spike	P	0 - 30
LFB	Aldrin	0.641	LCS	P	0 - 30
LFB	Alpha-BHC	11.7	LCS	P	0 - 30
LFB	Alpha-Chlordane	0.0879	LCS	P	0 - 30
LFB	Beta-BHC	10.0	LCS	P	0 - 30
LFB	Carbophenothion	10.6	LCS	P	0 - 30
LFB	Chlorothalonil	22.0	LCS	P	0 - 30
LFB	Cypermethrin	0.326	LCS	P	0 - 30
LFB	DDD-p,p'	0.604	LCS	P	0 - 30
LFB	DDE-p,p'	2.99	LCS	P	0 - 30
LFB	DDT-p,p'	4.93	LCS	P	0 - 30
LFB	Delta-BHC	3.44	LCS	P	0 - 30
LFB	Dicofol	6.15	LCS	P	0 - 30
LFB	Dieldrin	2.25	LCS	P	0 - 30
LFB	Endosulfan I	0.312	LCS	P	0 - 30
LFB	Endosulfan II	1.42	LCS	P	0 - 30
LFB	Endosulfan Sulfate	5.47	LCS	P	0 - 30
LFB	Endrin	30.0	LCS	F	0 - 30
LFB	Endrin Aldehyde	3.74	LCS	P	0 - 30
LFB	Endrin Ketone	10.7	LCS	P	0 - 30
LFB	Gamma-BHC	6.08	LCS	P	0 - 30
LFB	Gamma-Chlordane	0.535	LCS	P	0 - 30
LFB	Heptachlor	5.09	LCS	P	0 - 30
LFB	Heptachlor Epoxide	1.11	LCS	P	0 - 30
LFB	Methoxychlor	2.00	LCS	P	0 - 30
LFB	Mirex	1.94	LCS	P	0 - 30
LFB	Permethrin	0.242	LCS	P	0 - 30
LFB	Trifluralin	5.03	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P330732

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P330732

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1924366	Chlordane	4.23	Spike	P	0 - 30
1924366	Toxaphene	7.71	Spike	P	0 - 30
LFB	Chlordane	7.42	LCS	P	0 - 30
LFB	Toxaphene	8.54	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P330746

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1922737	Chlordane	7.59	Spike	P	0 - 30
1922737	Toxaphene	4.14	Spike	P	0 - 30
LFB	Chlordane	4.76	LCS	P	0 - 30
LFB	Toxaphene	8.72	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P330680

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923412	Pyraclostrobin	4.19	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P330689

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923138	Sucralose	4.46	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P330738

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923017	Glyphosate	3.12	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P330739

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923359	Color (true)	0.572	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P330743

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923361	Color (true)	1.76	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-97
Batch ID: P330857

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923578	Total Alkalinity	0.718	Sample	P	0 - 4.8

Reference Method: SM 2320 B-97
Batch ID: P330956

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923276	Total Alkalinity	0.0509	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P331042

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923274	TDS	4.28	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P331043

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923343	TDS	4.78	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P330958

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923276	Fluoride	0.473	Spike	P	0 - 3.0

Reference Method: SM 4500 F-C-97
Batch ID: P330960

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923361	Fluoride	0.0	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P330910

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923280	Organic Carbon	1.72	Spike	P	0 - 20

Reference Method: USGS O-2060-01
Batch ID: P330679

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923137	2,4-D	5.84	Spike	P	0 - 30
1923137	Acetaminophen	2.40	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: USGS O-2060-01
Batch ID: P330679

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923137	Bentazon	1.88	Spike	P	0 - 30
1923137	Carbamazepine	1.77	Spike	P	0 - 30
1923137	Diuron	7.51	Spike	P	0 - 30
1923137	Fenuron	12.6	Spike	P	0 - 30
1923137	Fluridone	14.7	Spike	P	0 - 30
1923137	Imidacloprid	6.75	Spike	P	0 - 30
1923137	Linuron	13.3	Spike	P	0 - 30
1923137	MCP	11.0	Spike	P	0 - 30
1923137	Primidone	11.3	Spike	P	0 - 30
1923137	Triclopyr	4.49	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: 1923409
Field Sample ID: G2SD082217-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	104	P	30 - 160
EPA 8321B	Acetaminophen-d4	104	P	30 - 160
EPA 8321B	Carbamazepine-d10	95.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	95.0	P	30 - 160
EPA 8321B	Diuron-d6	112	P	30 - 160
EPA 8321B	Diuron-d6	68.8	P	30 - 160
EPA 8321B	Diuron-d6	112	P	30 - 160
EPA 8321B	Diuron-d6	68.8	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	90.2	P	40 - 160
EPA 8321B	Primidone-d5	104	P	30 - 160
EPA 8321B	Primidone-d5	104	P	30 - 160
EPA 8321B	Sucralose-d6	49.2	P	40 - 160
EPA 8321B	Sucralose-d6	49.2	P	40 - 160
USGS O-2060-01	2,4-D-d3	136	P	40 - 160
USGS O-2060-01	Acetaminophen-d4	104	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	95.0	P	30 - 160
USGS O-2060-01	Diuron-d6	112	P	30 - 160
USGS O-2060-01	Diuron-d6	68.8	P	30 - 160
USGS O-2060-01	Primidone-d5	104	P	30 - 160
USGS O-2060-01	Sucralose-d6	49.2	P	40 - 160

Lab Sample ID: 1923410
Field Sample ID: G2SD082217-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	113	P	30 - 160
EPA 8321B	Acetaminophen-d4	113	P	30 - 160
EPA 8321B	Carbamazepine-d10	80.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	80.0	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 1923410

Field Sample ID: G2SD082217-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Diuron-d6	130	P	30 - 160
EPA 8321B	Diuron-d6	69.4	P	30 - 160
EPA 8321B	Diuron-d6	130	P	30 - 160
EPA 8321B	Diuron-d6	69.4	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	86.7	P	40 - 160
EPA 8321B	Primidone-d5	100	P	30 - 160
EPA 8321B	Primidone-d5	100	P	30 - 160
EPA 8321B	Sucralose-d6	55.9	P	40 - 160
EPA 8321B	Sucralose-d6	55.9	P	40 - 160
USGS O-2060-01	2,4-D-d3	132	P	40 - 160
USGS O-2060-01	Acetaminophen-d4	113	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	80.0	P	30 - 160
USGS O-2060-01	Diuron-d6	130	P	30 - 160
USGS O-2060-01	Diuron-d6	69.4	P	30 - 160
USGS O-2060-01	Primidone-d5	100	P	30 - 160
USGS O-2060-01	Sucralose-d6	55.9	P	40 - 160

Lab Sample ID: 1923411

Field Sample ID: G2SD082217-3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	103	P	30 - 160
EPA 8321B	Acetaminophen-d4	103	P	30 - 160
EPA 8321B	Carbamazepine-d10	91.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	91.7	P	30 - 160
EPA 8321B	Diuron-d6	137	P	30 - 160
EPA 8321B	Diuron-d6	67.6	P	30 - 160
EPA 8321B	Diuron-d6	137	P	30 - 160
EPA 8321B	Diuron-d6	67.6	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	90.4	P	40 - 160
EPA 8321B	Primidone-d5	87.5	P	30 - 160
EPA 8321B	Primidone-d5	87.5	P	30 - 160
EPA 8321B	Sucralose-d6	67.9	P	40 - 160
EPA 8321B	Sucralose-d6	67.9	P	40 - 160
USGS O-2060-01	2,4-D-d3	156	P	40 - 160
USGS O-2060-01	Acetaminophen-d4	103	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	91.7	P	30 - 160
USGS O-2060-01	Diuron-d6	137	P	30 - 160
USGS O-2060-01	Diuron-d6	67.6	P	30 - 160
USGS O-2060-01	Primidone-d5	87.5	P	30 - 160
USGS O-2060-01	Sucralose-d6	67.9	P	40 - 160

Lab Sample ID: 1923412

Field Sample ID: G2SD082217-4

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	102	P	30 - 160
EPA 8321B	Acetaminophen-d4	102	P	30 - 160
EPA 8321B	Carbamazepine-d10	80.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	80.0	P	30 - 160
EPA 8321B	Diuron-d6	138	P	30 - 160
EPA 8321B	Diuron-d6	63.6	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 1923412

Field Sample ID: G2SD082217-4

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Diuron-d6	138	P	30 - 160
EPA 8321B	Diuron-d6	63.6	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	83.4	P	40 - 160
EPA 8321B	Primidone-d5	80.0	P	30 - 160
EPA 8321B	Primidone-d5	80.0	P	30 - 160
EPA 8321B	Sucralose-d6	63.4	P	40 - 160
EPA 8321B	Sucralose-d6	63.4	P	40 - 160
USGS O-2060-01	2,4-D-d3	146	P	40 - 160
USGS O-2060-01	Acetaminophen-d4	102	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	80.0	P	30 - 160
USGS O-2060-01	Diuron-d6	138	P	30 - 160
USGS O-2060-01	Diuron-d6	63.6	P	30 - 160
USGS O-2060-01	Primidone-d5	80.0	P	30 - 160
USGS O-2060-01	Sucralose-d6	63.4	P	40 - 160

Lab Sample ID: 1923423

Field Sample ID: G2SD082217-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	57.8	P	39 - 118
EPA 8270D	Tetrachloro-m-xylene	38.2	P	32 - 103
EPA 8276	Decachlorobiphenyl	68.6	P	31 - 100

Lab Sample ID: 1923424

Field Sample ID: G2SD082217-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	86.2	P	39 - 118
EPA 8270D	Tetrachloro-m-xylene	44.4	P	32 - 103
EPA 8276	Decachlorobiphenyl	85.0	P	31 - 100

Lab Sample ID: 1923425

Field Sample ID: G2SD082217-3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	63.3	P	39 - 118
EPA 8270D	Tetrachloro-m-xylene	40.4	P	32 - 103
EPA 8276	Decachlorobiphenyl	61.8	P	31 - 100

Lab Sample ID: 1923426

Field Sample ID: G2SD082217-4

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	68.1	P	39 - 118
EPA 8270D	Tetrachloro-m-xylene	39.3	P	32 - 103
EPA 8276	Decachlorobiphenyl	66.6	P	31 - 100

Lab Sample ID: 1923427

Field Sample ID: G2SD082217-5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	64.1	P	39 - 118

Quality Assurance Report Surrogates

Lab Sample ID: 1923427

Field Sample ID: G2SD082217-5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Tetrachloro-m-xylene	55.4	P	32 - 103
EPA 8276	Decachlorobiphenyl	70.5	P	31 - 100

Lab Sample ID: 1923428

Field Sample ID: G2SD082217-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	67.9	P	53 - 135
EPA 8270D	Simazine-d10	94.3	P	71 - 126

Lab Sample ID: 1923429

Field Sample ID: G2SD082217-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	65.7	P	53 - 135
EPA 8270D	Simazine-d10	94.8	P	71 - 126

Lab Sample ID: 1923430

Field Sample ID: G2SD082217-3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	69.2	P	53 - 135
EPA 8270D	Simazine-d10	88.8	P	71 - 126

Lab Sample ID: 1923431

Field Sample ID: G2SD082217-4

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	72.8	P	53 - 135
EPA 8270D	Simazine-d10	94.0	P	71 - 126

Lab Sample ID: 1923432

Field Sample ID: G2SD082217-5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	82.4	P	53 - 135
EPA 8270D	Simazine-d10	105	P	71 - 126

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A78584

Included Lab Sample IDs: 1923359, 1923360, 1923361, 1923362, 1923363

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	95.7	P/P	90 - 110
Chloride	95.7	97.1	P/P	90 - 110
Sulfate	100	96.7	P/P	90 - 110
Sulfate	96.7	97.8	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A78588

Included Lab Sample IDs: 1923359, 1923360, 1923361, 1923362, 1923363

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: A78589

Included Lab Sample IDs: 1923369, 1923370, 1923371, 1923372, 1923373

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	101	100	P/P	90 - 110
O-Phosphate-P	99.4	99.6	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A78592

Included Lab Sample IDs: 1923359, 1923360, 1923361, 1923362, 1923363

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	102	P/P	85 - 115
Color (true)	98.7	101	P/P	85 - 115

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A78615

Included Lab Sample IDs: 1923364, 1923365, 1923366

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	106	109	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A78616

Included Lab Sample IDs: 1923364, 1923365, 1923366, 1923367, 1923368

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	103	103	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A78617

Included Lab Sample IDs: 1923361, 1923362, 1923363

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.7	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A78622

Included Lab Sample IDs: 1923364, 1923365, 1923366, 1923367

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	103	106	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A78636

Included Lab Sample IDs: 1923367, 1923368

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A78636

Included Lab Sample IDs: 1923367, 1923368

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	106	102	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A78640

Included Lab Sample IDs: 1923364, 1923365, 1923366, 1923367, 1923368

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	104	101	P/P	90 - 110
Organic Carbon	100	104	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A78653

Included Lab Sample IDs: 1923409, 1923410, 1923411, 1923412

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Glyphosate	95.9	92.4	P/P	70 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A78656

Included Lab Sample IDs: 1923368

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	103	100	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A78662

Included Lab Sample IDs: 1923446, 1923447, 1923448, 1923449, 1923450

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	101	99.9	P/P	90 - 110
Arsenic	104	104	P/P	90 - 110
Arsenic	99.9	101	P/P	90 - 110
Cadmium	98.9	98.2	P/P	90 - 110
Cadmium	99.6	99.7	P/P	90 - 110
Cadmium	99.7	99.9	P/P	90 - 110
Chromium	98.8	98.5	P/P	90 - 110
Chromium	99.8	100	P/P	90 - 110
Chromium	100	99.4	P/P	90 - 110
Copper	100	100	P/P	90 - 110
Copper	101	103	P/P	90 - 110
Copper	100	99.9	P/P	90 - 110
Lead	100	101	P/P	90 - 110
Lead	100	100	P/P	90 - 110
Lead	99.3	99.5	P/P	90 - 110
Nickel	101	102	P/P	90 - 110
Nickel	98.8	99.2	P/P	90 - 110
Nickel	99.2	99.7	P/P	90 - 110
Silver	95.7	96.3	P/P	90 - 110
Silver	96.7	97.7	P/P	90 - 110
Silver	97.7	97.9	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A78665

Included Lab Sample IDs: 1923446, 1923447, 1923448, 1923449, 1923450

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	101	P/P	90 - 110
Calcium	101	101	P/P	90 - 110
Calcium	101	101	P/P	90 - 110
Iron	102	102	P/P	90 - 110
Iron	102	102	P/P	90 - 110
Iron	102	102	P/P	90 - 110
Magnesium	101	101	P/P	90 - 110
Magnesium	101	101	P/P	90 - 110
Magnesium	102	101	P/P	90 - 110
Potassium	96.1	96.3	P/P	90 - 110
Potassium	96.5	96.5	P/P	90 - 110
Potassium	96.6	96.1	P/P	90 - 110
Sodium	97.3	96.9	P/P	90 - 110
Sodium	98.3	97.3	P/P	90 - 110
Sodium	98.3	98.3	P/P	90 - 110
Zinc	100	102	P/P	90 - 110
Zinc	103	104	P/P	90 - 110
Zinc	103	100	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A78669

Included Lab Sample IDs: 1923359, 1923360

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.8	103	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A78669

Included Lab Sample IDs: 1923359, 1923360, 1923361, 1923362, 1923363

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	100	P/P	90 - 110
Fluoride	100	101	P/P	90 - 110
Fluoride	101	102	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A78685

Included Lab Sample IDs: 1923364, 1923365, 1923366, 1923367, 1923368

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	101	P/P	90 - 110
Ammonia-N	99.4	101	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A78700

Included Lab Sample IDs: 1923409, 1923410, 1923411, 1923412

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraclostrobin	113	114	P/P	60 - 150
Pyraclostrobin	149	113	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8276

Run ID: A78764

Included Lab Sample IDs: 1923423, 1923424

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	101		P	80 - 120
Toxaphene	108		P	80 - 120

Reference Method: USGS O-2060-01

Run ID: A78770

Included Lab Sample IDs: 1923409, 1923410, 1923411, 1923412

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	133	118	P/P	50 - 150
Acetaminophen	80.9	75.0	P/P	60 - 150
Bentazon	91.3	104	P/P	50 - 150
Carbamazepine	115	102	P/P	60 - 150
Diuron	111	114	P/P	60 - 150
Fenuron	126	124	P/P	60 - 150
Fluridone	79.2	82.7	P/P	60 - 160
Imidacloprid	115	116	P/P	60 - 150
Linuron	117	99.5	P/P	60 - 150
MCPP	109	103	P/P	50 - 150
Primidone	125	127	P/P	60 - 150
Triclopyr	86.2	110	P/P	50 - 160

Reference Method: EPA 8321B

Run ID: A78774

Included Lab Sample IDs: 1923409

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	136	137	P/P	60 - 150

Reference Method: EPA 8270D

Run ID: A78789

Included Lab Sample IDs: 1923423, 1923424

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	99.5		P	80 - 120
Alpha-BHC	102		P	80 - 120
Alpha-Chlordane	97.7		P	80 - 120
Beta-BHC	97.6		P	80 - 120
Carbophenothion	95.7		P	80 - 120
Chlorothalonil	104		P	80 - 120
Cypermethrin	95.5		P	80 - 120
DDD-p,p'	99.4		P	80 - 120
DDE-p,p'	102		P	80 - 120
DDT-p,p'	106		P	80 - 120
Delta-BHC	94.4		P	80 - 120
Dicofol	98.8		P	80 - 120
Dieldrin	97.2		P	80 - 120
Endosulfan I	98.2		P	80 - 120
Endosulfan II	92.9		P	80 - 120
Endosulfan Sulfate	92.2		P	80 - 120
Endrin	91.9		P	80 - 120
Endrin Aldehyde	89.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A78789

Included Lab Sample IDs: 1923423, 1923424

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endrin Ketone	93.5		P	80 - 120
Gamma-BHC	103		P	80 - 120
Gamma-Chlordane	97.3		P	80 - 120
Heptachlor	94.2		P	80 - 120
Heptachlor Epoxide	99.6		P	80 - 120
Methoxychlor	103		P	80 - 120
Mirex	98.7		P	80 - 120
Permethrin	95.3		P	80 - 120
Trifluralin	96.7		P	80 - 120

Reference Method: EPA 8321B

Run ID: A78802

Included Lab Sample IDs: 1923410, 1923411, 1923412

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	143	146	P/P	60 - 150

Reference Method: EPA 8276

Run ID: A78819

Included Lab Sample IDs: 1923425, 1923426, 1923427

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	105		P	80 - 120
Toxaphene	113		P	80 - 120

Reference Method: EPA 8270D

Run ID: A78826

Included Lab Sample IDs: 1923425, 1923426, 1923427

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	96.8		P	80 - 120
Alpha-BHC	100		P	80 - 120
Alpha-Chlordane	100		P	80 - 120
Beta-BHC	99.8		P	80 - 120
Carbophenothion	95.9		P	80 - 120
Chlorothalonil	80.0		P	80 - 120
Cypermethrin	92.1		P	80 - 120
DDD-p,p'	95.3		P	80 - 120
DDE-p,p'	99.5		P	80 - 120
DDT-p,p'	104		P	80 - 120
Delta-BHC	99.9		P	80 - 120
Dicofol	157*		F	80 - 120
Dieldrin	96.7		P	80 - 120
Endosulfan I	95.5		P	80 - 120
Endosulfan II	94.3		P	80 - 120
Endosulfan Sulfate	96.0		P	80 - 120
Endrin	95.2		P	80 - 120
Endrin Aldehyde	94.9		P	80 - 120
Endrin Ketone	96.9		P	80 - 120
Gamma-BHC	104		P	80 - 120
Gamma-Chlordane	99.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A78826

Included Lab Sample IDs: 1923425, 1923426, 1923427

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Heptachlor	95.3		P	80 - 120
Heptachlor Epoxide	98.5		P	80 - 120
Methoxychlor	102		P	80 - 120
Mirex	96.9		P	80 - 120
Permethrin	94.7		P	80 - 120
Trifluralin	83.5		P	80 - 120

Reference Method: EPA 8270D

Run ID: A78885

Included Lab Sample IDs: 1923428, 1923429, 1923430, 1923431, 1923432

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	97.8		P	80 - 120
Alachlor	102		P	80 - 120
Ametryn	101		P	80 - 120
Atrazine	96.5		P	80 - 120
Atrazine Desethyl	92.6		P	80 - 120
Azinphos Methyl	87.8		P	80 - 120
Bromacil	102		P	80 - 120
Butylate	97.5		P	80 - 120
Chlorpyrifos Ethyl	98.2		P	80 - 120
Chlorpyrifos Methyl	97.1		P	80 - 120
Cyanazine	95.4		P	80 - 120
Demeton	83.2		P	80 - 120
Diazinon	101		P	80 - 120
Disulfoton	94.5		P	80 - 120
EPTC	98.5		P	80 - 120
Ethion	92.9		P	80 - 120
Ethoprop	97.5		P	80 - 120
Fenamiphos	93.3		P	80 - 120
Fipronil	90.9		P	80 - 120
Fipronil Sulfide	95.9		P	80 - 120
Fipronil Sulfone	95.3		P	80 - 120
Fonofos	97.9		P	80 - 120
Hexazinone	98.1		P	80 - 120
Malathion	94.5		P	80 - 120
Metalaxyl	94.9		P	80 - 120
Metolachlor	101		P	80 - 120
Metribuzin	79.1*		F	80 - 120
Mevinphos	93.6		P	80 - 120
Molinate	106		P	80 - 120
Norflurazon	93.1		P	80 - 120
Parathion Ethyl	94.4		P	80 - 120
Parathion Methyl	96.8		P	80 - 120
Pendimethalin	90.3		P	80 - 120
Phorate	92.9		P	80 - 120
Prometon	95.4		P	80 - 120
Prometryn	101		P	80 - 120
Simazine	88.8		P	80 - 120
Terbufos	101		P	80 - 120
Terbutylazine	97.2		P	80 - 120

Quality Assurance Report Calibration Verification

* 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							4.06	
EPA 200.7 Rev. 4.4	Calcium	101		98.9	104				0.0484
	Iron	108		107	110	110			0.316
	Magnesium	101		102	104				0.0659
	Potassium	95.7		98.0	94.6				0.0070
	Sodium	98.5		98.3	99.2				0.278
	Zinc	102		101	102	103			0.746
EPA 200.8 Rev. 5.4	Arsenic	104		108	106	107			1.37
	Cadmium	98.4		104	104	105			1.13
	Chromium	97.4		98.7	98.7	101			1.91
	Copper	99.5		98.1	97.7	99.8			2.04
	Lead	99.5		103	104	105			0.962
	Nickel	101		100	100	102			1.56
	Silver	103		107	105	106			1.40
EPA 300.0 Rev. 2.1	Chloride	100		96.5	100			3.90	
	Sulfate	101		98.2	101			2.52	
EPA 350.1 Rev. 2.0	Ammonia-N	102		103	100				1.93
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103		103	102				0.221
	Kjeldahl Nitrogen	100		95.0	95.2				0.136
EPA 353.2 Rev. 2.0	NO2NO3-N	106		104	104				0.466
	NO2NO3-N	106		102	103				0.743
EPA 365.1 Rev. 2.0	Total-P	96.4		97.2	98.9				1.72
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101		94.4	95.8				1.47
EPA 8270D	Acetochlor	98.0	89.3	89.2	95.3	9.29			6.70
	Alachlor	97.6	92.7	86.7	92.3	5.10			6.24
	Aldrin	33.0	47.9	50.1	60.0	36.7			18.0
	Aldrin	49.5	49.1	62.2	61.7	0.641			0.764
	Alpha-BHC	79.4	80.9	83.0	77.6	1.86			6.63
	Alpha-BHC	84.5	75.1	82.8	94.4	11.7			13.1
	Alpha-Chlordane	80.1	83.3	80.0	80.7	3.97			0.608
	Alpha-Chlordane	85.1	85.0	85.5	97.1	0.0879			11.7
	Ametryn	92.2	106	94.8	97.1	13.5			2.40
	Atrazine	87.5	87.1	88.0	94.0	0.505			5.43
	Atrazine Desethyl	90.8	97.4	76.4	87.2	6.95			13.3
	Azinphos Methyl	113	109	103	104	4.19			1.26
	Beta-BHC	87.8	87.0	95.6	77.9	0.974			20.4
	Beta-BHC	91.6	101	102	134	10.0			27.6
	Bromacil	93.9	90.9	105	94.0	3.27			10.7
	Butylate	50.3	51.0	24.8	38.7	1.39			43.9
	Carbophenothion	71.1	93.6	90.3	59.1	27.4			41.8
	Carbophenothion	75.6	84.1	91.3	105	10.6			13.6
	Chlorothalonil	53.0	55.6	79.0	82.4	4.86			4.29
	Chlorothalonil	99.2	79.5	116	117	22.0			1.36
	Chlorpyrifos Ethyl	87.9	83.5	76.8	84.1	5.14			6.79
	Chlorpyrifos Methyl	90.8	88.7	83.5	86.9	2.34			4.05
	Cyanazine	156	146	115	127	6.39			10.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Cypermethrin	74.1	79.4	75.4	58.9	6.98	24.5
	Cypermethrin	88.3	88.6	95.3	108	0.326	12.5
	DDD-p,p'	81.3	83.0	78.8	69.4	1.97	12.8
	DDD-p,p'	92.7	92.1	89.9	109	0.604	18.7
	DDE-p,p'	77.8	83.1	81.5	81.0	6.66	0.550
	DDE-p,p'	83.9	86.5	88.3	96.9	2.99	9.31
	DDT-p,p'	79.8	82.0	82.5	76.2	2.74	7.98
	DDT-p,p'	83.9	79.8	81.4	88.1	4.93	7.97
	Delta-BHC	94.5	88.6	111	87.2	6.51	24.1
	Delta-BHC	118	123	143	164	3.44	13.1
	Demeton	75.7	68.3	82.7	84.3	10.2	1.91
	Diazinon	92.7	89.5	92.9	99.7	3.53	6.99
	Dicofol	77.3	61.9	44.8	34.3	22.2	26.5
	Dicofol	42.2	44.9	23.2	36.3	6.15	44.1
	Dieldrin	77.5	80.6			3.93	3.24
	Dieldrin	87.8	89.8			2.25	16.1
	Disulfoton	86.7	87.7	90.6	100	1.21	10.1
	Endosulfan I	80.8	84.4	80.8	82.4	4.37	1.87
	Endosulfan I	94.2	94.5	99.9	113	0.312	12.0
	Endosulfan II	83.9	83.1	90.1	90.6	1.01	0.585
	Endosulfan II	96.4	97.8	103	121	1.42	16.5
	Endosulfan Sulfate	77.4	74.1	69.6	65.4	4.28	6.17
	Endosulfan Sulfate	91.5	86.6	77.4	104	5.47	29.7
	Endrin	80.4	74.7	72.6	69.5	7.38	4.29
	Endrin	90.4	66.7	78.5	99.4	30.0	23.5
	Endrin Aldehyde	77.5	75.8	52.2	74.3	2.19	34.8
	Endrin Aldehyde	108	112	68.3	118	3.74	53.3
	Endrin Ketone	78.3	79.2	76.0	73.7	1.09	2.51
	Endrin Ketone	86.6	96.5	86.8	103	10.7	17.3
	EPTC	45.6	47.4	24.9	35.5	3.76	35.1
	Ethion	85.5	82.3	87.3	91.9	3.81	5.12
	Ethoprop	69.4	70.7	72.5	77.8	1.94	6.94
	Fenamiphos	93.5	91.0	86.3	80.8	2.65	6.63
	Fipronil	102	96.6	104	105	5.34	0.945
	Fipronil Sulfide	92.2	82.8	88.4	89.9	10.7	1.63
	Fipronil Sulfone	78.3	74.4	74.4	76.0	5.19	2.20
	Fonofos	78.3	84.5	75.3	88.6	7.61	16.2
	Gamma-BHC	86.5	87.1	93.9	75.4	0.685	21.9
	Gamma-BHC	87.5	93.0	117	110	6.08	5.92
	Gamma-Chlordane	77.9	81.0	78.6	78.2	3.79	0.424
	Gamma-Chlordane	83.3	83.8	83.0	95.7	0.535	13.3
	Heptachlor	67.1	69.6	68.3	70.5	3.78	3.16
	Heptachlor	70.7	67.1	67.7	70.8	5.09	4.58
	Heptachlor Epoxide	78.2	79.9			2.16	1.61
	Heptachlor Epoxide	86.3	85.4	92.4	106	1.11	14.1
	Hexazinone	87.2	81.7	88.9	91.1	6.58	2.44
	Malathion	87.3	83.3	78.1	82.9	4.73	6.05
	Metalaxyl	92.5	83.9	87.8	88.0	9.75	0.166
	Methoxychlor	82.5	87.7	85.4	79.6	6.09	7.02
	Methoxychlor	95.9	94.0	90.7	99.2	2.00	8.95
	Metolachlor	91.1	85.7	87.1	91.1	6.13	3.99
	Metribuzin	98.4	122	150	161	21.7	6.59
	Mevinphos	70.7	72.1	66.3	73.6	1.96	10.5
	Mirex	65.6	70.9	70.4	66.9	7.79	5.10

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Mirex	66.1	64.8	68.7	72.5	1.94	5.39
	Molinate	48.4	49.0	33.0	41.4	1.21	22.4
	Norflurazon	93.7	89.3	98.0	93.3	4.77	4.98
	Parathion Ethyl	85.3	85.4	86.0	86.1	0.129	0.0871
	Parathion Methyl	98.4	96.3	96.7	100	2.08	3.42
	Pendimethalin	75.7	72.5	80.5	81.4	4.30	1.20
	Permethrin	73.6	79.3	76.3	66.9	7.52	13.1
	Permethrin	76.3	76.5	80.6	86.6	0.242	7.12
	Phorate	68.9	75.1	70.8	76.5	8.62	7.85
	Prometon	90.6	83.2	92.2	100	8.61	8.08
	Prometryn	101	90.5	96.3	101	10.5	5.08
	Simazine	89.6	95.1	95.0	103	5.88	8.15
	Terbufos	79.1	79.6	79.5	88.6	0.640	10.8
	Terbutylazine	82.5	81.1	82.4	84.6	1.78	2.69
	Trifluralin	97.8	108	145	107	9.84	30.4
	Trifluralin	113	108	140	156	5.03	10.8
	Chlordane	110	102	98.6	103	7.42	4.23
	Chlordane	101	106	92.6	101	4.76	7.59
	Toxaphene	107	98.2	102	110	8.54	7.71
	Toxaphene	108	118	104	109	8.72	4.14
EPA 8276	Glyphosate	102		92.6	95.6		3.12
	Pyraclostrobin	119		120	115		4.19
	Sucralose	93.5		111	106		4.46
EPA 8321B							
SM 2120 B	Color (true)					0.572	
	Color (true)					1.76	
SM 2320 B-97	Total Alkalinity	108				0.718	
	Total Alkalinity	103				0.0509	
SM 2540 C-97	TDS					4.28	
	TDS					4.78	
SM 4500 F-C-97	Fluoride	97.5		101	102		0.473
	Fluoride	101		100	100		0.0
SM 5310 B-00	Organic Carbon	99.4					1.72
USGS O-2060-01	2,4-D	134		138	130		5.84
	Acetaminophen	117		109	112		2.40
	Bentazon	87.2		51.6	52.6		1.88
	Carbamazepine	128		155	153		1.77
	Diuron	141		113	122		7.51
	Fenuron	144		113	128		12.6
	Fluridone	126		94.5	110		14.7
	Imidacloprid	137		220	235		6.75
	Linuron	119		110	126		13.3
	MCPP	103		99.5	111		11.0
	Primidone	133		129	145		11.3
	Triclopyr	85.6		101	106		4.49

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1923359, 1923360, 1923361, 1923362, 1923363
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1923446, 1923447, 1923448, 1923449, 1923450

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1923446, 1923447, 1923448, 1923449, 1923450
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1923359, 1923360, 1923361, 1923362, 1923363
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1923359, 1923360, 1923361, 1923362, 1923363
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1923364, 1923365, 1923366, 1923367, 1923368
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1923364, 1923365, 1923366, 1923367, 1923368
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1923364, 1923365, 1923366, 1923367, 1923368
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1923364, 1923365, 1923366, 1923367, 1923368
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1923369, 1923370, 1923371, 1923372, 1923373
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	1923423, 1923424, 1923425, 1923426, 1923427
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1923428, 1923429, 1923430, 1923431, 1923432
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	1923423, 1923424, 1923425, 1923426, 1923427
EPA 8321B / E31780	Analysis of sucralose in water matrices by HPLC/MS/MS	1923409, 1923410, 1923411, 1923412
EPA 8321B / E31780	Glyphosate in water matrices by HPLC/MS/MS	1923409, 1923410, 1923411, 1923412
EPA 8321B / E31780	Pyraclostrobin in water matrices by HPLC/MS/MS	1923409, 1923410, 1923411, 1923412
SM 2120 B / E31780	True Color measured at 450 nm	1923359, 1923360, 1923361, 1923362, 1923363
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1923359, 1923360, 1923361, 1923362, 1923363
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1923359, 1923360, 1923361, 1923362, 1923363
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1923359, 1923360, 1923361, 1923362, 1923363
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1923359, 1923360, 1923361, 1923362, 1923363
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1923364, 1923365, 1923366, 1923367, 1923368
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1923409, 1923410, 1923411, 1923412
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1923409, 1923410, 1923411, 1923412

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	08/23/2017			08/23/2017 15:45	DeAsia Armster	1923359, 1923360, 1923361, 1923362, 1923363
EPA 200.7 Rev. 4.4	08/23/2017	08/23/2017	Elliott D. Healy	08/28/2017	Betina Topolski	1923446, 1923447, 1923448, 1923449, 1923450
EPA 200.8 Rev. 5.4	08/23/2017	08/23/2017	Elliott D. Healy	08/28/2017	Nadine Brooks	1923446, 1923447, 1923448, 1923449, 1923450
EPA 300.0 Rev. 2.1	08/23/2017			08/24/2017	Julia Storbeck	1923359, 1923360, 1923361, 1923362, 1923363
EPA 350.1 Rev. 2.0	08/23/2017			08/28/2017	Sofia Elnemr	1923364, 1923365, 1923366, 1923367, 1923368
EPA 351.2 Rev. 2.0	08/23/2017	08/24/2017	Adrian Shelby	08/25/2017	Joseph Suarez	1923364, 1923365, 1923366, 1923367, 1923368
EPA 353.2 Rev. 2.0	08/23/2017			08/25/2017	Beverly Y. Sanders	1923364, 1923365, 1923366, 1923367, 1923368
EPA 365.1 Rev. 2.0	08/23/2017	08/24/2017	Sima Feizi	08/25/2017	Lipi Saha	1923364, 1923365, 1923366, 1923367, 1923368
EPA 365.1 Rev. 2.0 dissolved	08/23/2017			08/23/2017 14:49	Megan Treadwell	1923370
	08/23/2017			08/23/2017 14:50	Megan Treadwell	1923371
	08/23/2017			08/23/2017 14:52	Megan Treadwell	1923373
	08/23/2017			08/23/2017 15:29	Megan Treadwell	1923369
	08/23/2017			08/23/2017 15:30	Megan Treadwell	1923372
EPA 8270D	08/23/2017	08/24/2017	John Kaba	08/31/2017	Marek Topolski	1923423, 1923424
	08/23/2017	08/25/2017	John Kaba	08/30/2017	Irina Carbone	1923428, 1923429, 1923430, 1923431, 1923432
EPA 8276	08/23/2017	08/28/2017	Fe-Val Siddell	08/30/2017	Vandana T. Nagar	1923425, 1923426, 1923427
	08/23/2017	08/24/2017	John Kaba	09/01/2017	Vandana T. Nagar	1923423, 1923424
	08/23/2017	08/28/2017	Fe-Val Siddell	08/30/2017	John P. Burgos	1923425, 1923426, 1923427
EPA 8321B	08/23/2017	08/24/2017	Julie Michelle Frank	08/24/2017	Julie Michelle Frank	1923409, 1923410, 1923411, 1923412
	08/23/2017	08/28/2017	Julie Michelle Frank	09/02/2017	Julie Michelle Frank	1923409
	08/23/2017	08/28/2017	Julie Michelle Frank	09/05/2017	Julie Michelle Frank	1923410, 1923411, 1923412
	08/23/2017	08/29/2017	Hoor Shaik	08/30/2017	Juyoung Kim	1923409, 1923410, 1923411, 1923412
SM 2120 B	08/23/2017			08/23/2017 16:31	Tanya Welborn	1923359
	08/23/2017			08/23/2017 16:33	Tanya Welborn	1923362
	08/23/2017			08/23/2017 16:34	Tanya Welborn	1923363
	08/23/2017			08/23/2017 17:14	Tanya Welborn	1923361
	08/23/2017			08/23/2017 17:16	Tanya Welborn	1923360
SM 2320 B-97	08/23/2017			08/25/2017	Dale L. Simmons	1923361, 1923362, 1923363
	08/23/2017			08/29/2017	Dale L. Simmons	1923359, 1923360
SM 2540 C-97	08/23/2017			08/25/2017	Yijie Li	1923359, 1923360, 1923361, 1923362, 1923363
SM 2540 D-97	08/23/2017			08/25/2017	Yijie Li	1923359, 1923360, 1923361, 1923362, 1923363

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 4500 F-C-97	08/23/2017			08/29/2017	Dale L. Simmons	1923359, 1923360, 1923361, 1923362, 1923363
SM 5310 B-00	08/23/2017			08/25/2017	Ping Hua	1923364, 1923365, 1923366, 1923367, 1923368
USGS O-2060-01	08/23/2017	08/24/2017	Hoor Shaik	08/26/2017	Juyoung Kim	1923409, 1923410, 1923411, 1923412