

Chemical Analysis Report

WQAP-2017-08-22-03

Florida Department of Environmental Protection
Central Laboratory
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DOH Accreditation E31780

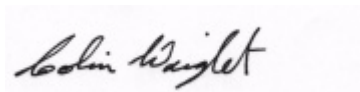
Event Description: **2017 SMP Kits A & C**
Request ID: **RQ-2017-08-21-04**
Customer: **WQAP**
Project ID: **SMP**

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Certified by: Colin Wright, Program Administrator

Date Certified: 18-SEP-2017 09:38



NON-CONFORMANCE REPORT INCLUDED

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: Alligator Creek North Prong above CR768

Collection Date/Time: 08/21/2017 11:30

Field ID: G2SD082117-1

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923051	EPA 180.1 Rev. 2.0	Turbidity	5.9		NTU	P330657	
	EPA 300.0 Rev. 2.1	Chloride	32		mg Cl/L	P330748	
		Sulfate	30		mg SO4/L	P330751	
	SM 2120 B	Color (true)	72	A	PCU	P330667	
	SM 2320 B-97	Total Alkalinity	126		mg CaCO3/L	P330857	
	SM 2540 C-97	TDS	280	A	mg/L	P330969	
	SM 2540 D-97	TSS	3	IA	mg/L	P330987	
	SM 4500 F-C-97	Fluoride	0.15		mg F/L	P330960	
1923054	EPA 350.1 Rev. 2.0	Ammonia-N	0.009		mg N/L	P330834	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P330652	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.058		mg N/L	P330764	
	EPA 365.1 Rev. 2.0	Total-P	0.060		mg P/L	P330708	
	SM 5310 B-00	Organic Carbon	14		mg C/L	P330864	
1923057	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.008	I	mg P/L	P330645	
1923077	EPA 200.7 Rev. 4.4	Calcium	62.7		mg/L	P330710	
		Iron	1.35E+03		ug/L	P330710	
		Magnesium	4.38		mg/L	P330710	
		Potassium	0.73	I	mg/L	P330710	
		Sodium	21.0		mg/L	P330710	
		Zinc	5.0	U	ug/L	P330710	
	EPA 200.8 Rev. 5.4	Arsenic	1.39		ug/L	P330710	
		Cadmium	0.020	U	ug/L	P330710	
		Chromium	0.40	U	ug/L	P330710	
		Copper	0.33	I	ug/L	P330710	
		Lead	0.36		ug/L	P330710	
		Nickel	0.37	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.

Sample Location: Alligator Creek North Prong above CR768

Collection Date/Time: 08/21/2017 11:30

Field ID: G2SD082117-1

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923068	EPA 8321B	Glyphosate**	0.50	U	ug/L	P330738	
		Pyraclostrobin**	0.0020	U	ug/L	P330487	RPD
		Sucralose**	0.050	I	ug/L	P330492	
	USGS O-2060-01	2,4-D	0.017		ug/L	P330602	
		Diuron	8.0E-04	U	ug/L	P330602	
		Fenuron	0.0080	U	ug/L	P330602	
		Imidacloprid	8.0E-04	U	ug/L	P330602	
		Bentazon	8.0E-04	U	ug/L	P330602	
		Linuron	0.0040	U	ug/L	P330602	
		Acetaminophen**	0.0080	U	ug/L	P330602	MS

Field ID: G2SD082117-1

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923068	USGS O-2060-01	MCPD	0.021		ug/L	P330602	
		Carbamazepine**	4.0E-04	U	ug/L	P330602	
		Triclopyr**	0.0040	U	ug/L	P330602	
		Primidone**	0.0040	U	ug/L	P330602	
		Fluridone**	4.0E-04	U	ug/L	P330602	
1923071	EPA 8270D	Aldrin	4.1	U	ng/L	P330746	
		Alpha-BHC	2.1	U	ng/L	P330746	
		Beta-BHC	4.1	U	ng/L	P330746	
		Delta-BHC	4.1	U	ng/L	P330746	
		Gamma-BHC	4.1	U	ng/L	P330746	
		Carbophenothion	4.1	U	ng/L	P330746	
		Chlorothalonil	2.1	U	ng/L	P330746	
		Cypermethrin	21	U	ng/L	P330746	
		DDD-p,p'	3.1	U	ng/L	P330746	
		DDE-p,p'	3.1	U	ng/L	P330746	
		DDT-p,p'	3.1	U	ng/L	P330746	
		Dieldrin	4.1	U	ng/L	P330746	
		Endosulfan I	4.1	U	ng/L	P330746	
		Endosulfan II	4.1	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	1.5	U	ng/L	P330746	
		Heptachlor Epoxide	2.1	U	ng/L	P330746	
		Methoxychlor	4.1	U	ng/L	P330746	
		Mirex	2.1	U	ng/L	P330746	
		Permethrin	10	U	ng/L	P330746	
		Trifluralin	1.0	U	ng/L	P330746	
		Alpha-Chlordane	1.0	U	ng/L	P330746	
		Gamma-Chlordane	1.0	U	ng/L	P330746	
		Endrin Ketone	2.1	U	ng/L	P330746	
		Dicofol	31	U	ng/L	P330746	RPD
	EPA 8276	Chlordane**	3.6	I	ng/L	P330746	
		Toxaphene**	13	U	ng/L	P330746	
1923074	EPA 8270D	Alachlor	0.24	U	ng/L	P330733	
		Ametryn	0.31	U	ng/L	P330733	
		Atrazine	0.43	I	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	0.096	U	ng/L	P330733	
		Demeton	1.9	U	ng/L	P330733	
		Diazinon	0.12	U	ng/L	P330733	

Field ID: G2SD082117-1

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923074	EPA 8270D	Disulfoton	0.48	U	ng/L	P330733	RPD
		EPTC	1.2	U	ng/L	P330733	
		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	
		Hexazinone	53		ng/L	P330733	
		Malathion	0.33	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	11		ng/L	P330733	
		Pendimethalin	0.96	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	0.096	U	ng/L	P330733	
		Terbutylazine	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:

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

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: Alligator Cr South Branch @ SR768

Collection Date/Time: 08/21/2017 11:00

Field ID: G2SD082117-2

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923052	EPA 180.1 Rev. 2.0	Turbidity	1.4		NTU	P330657	
	EPA 300.0 Rev. 2.1	Chloride	13		mg Cl/L	P330748	
		Sulfate	1.2		mg SO4/L	P330751	
	SM 2120 B	Color (true)	100		PCU	P330667	
	SM 2320 B-97	Total Alkalinity	30		mg CaCO3/L	P330857	
	SM 2540 C-97	TDS	83		mg/L	P330968	
	SM 2540 D-97	TSS	3	I	mg/L	P330986	
	SM 4500 F-C-97	Fluoride	0.040	I	mg F/L	P330960	
1923055	EPA 350.1 Rev. 2.0	Ammonia-N	0.044		mg N/L	P330834	

Field ID: G2SD082117-2

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923055	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P330652	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.010		mg N/L	P330764	
	EPA 365.1 Rev. 2.0	Total-P	0.018		mg P/L	P330708	
	SM 5310 B-00	Organic Carbon	15		mg C/L	P330864	
1923058	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P330643	
1923078	EPA 200.7 Rev. 4.4	Calcium	12.4		mg/L	P330710	
		Iron	480		ug/L	P330710	
		Magnesium	1.80		mg/L	P330710	
		Potassium	0.57	I	mg/L	P330710	
		Sodium	8.1		mg/L	P330710	
		Zinc	5.0	U	ug/L	P330710	
	EPA 200.8 Rev. 5.4	Arsenic	0.74		ug/L	P330710	
		Cadmium	0.020	U	ug/L	P330710	
		Chromium	0.40	U	ug/L	P330710	
		Copper	0.22	I	ug/L	P330710	
		Lead	0.18	I	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.

Sample Location: Alligator Cr South Branch @ SR768

Collection Date/Time: 08/21/2017 11:00

Field ID: G2SD082117-2

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923069	EPA 8321B	Glyphosate**	0.50	U	ug/L	P330738	
		Pyraclostrobin**	0.0020	U	ug/L	P330487	RPD
		Sucralose**	0.010	U	ug/L	P330492	
	USGS O-2060-01	2,4-D	0.0024	I	ug/L	P330602	
		Diuron	8.0E-04	U	ug/L	P330602	
		Fenuron	0.011	I	ug/L	P330602	
		Imidacloprid	8.0E-04	U	ug/L	P330602	
		Bentazon	8.0E-04	U	ug/L	P330602	
		Linuron	0.0040	U	ug/L	P330602	
		Acetaminophen**	0.0080	U	ug/L	P330602	MS
		MCPD	0.0020	U	ug/L	P330602	
		Carbamazepine**	4.0E-04	U	ug/L	P330602	
		Triclopyr**	0.0040	U	ug/L	P330602	
		Primidone**	0.0040	U	ug/L	P330602	
		Fluridone**	4.0E-04	U	ug/L	P330602	
1923072	EPA 8270D	Aldrin	4.1	U	ng/L	P330746	
		Alpha-BHC	2.1	U	ng/L	P330746	
		Beta-BHC	4.1	U	ng/L	P330746	
		Delta-BHC	4.1	U	ng/L	P330746	
		Gamma-BHC	4.1	U	ng/L	P330746	

Field ID: G2SD082117-2

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923072	EPA 8270D	Carbophenothion	4.1	U	ng/L	P330746	
		Chlorothalonil	2.1	U	ng/L	P330746	
		Cypermethrin	21	U	ng/L	P330746	
		DDD-p,p'	3.1	U	ng/L	P330746	
		DDE-p,p'	3.1	U	ng/L	P330746	
		DDT-p,p'	3.1	U	ng/L	P330746	
		Dieldrin	4.1	U	ng/L	P330746	
		Endosulfan I	4.1	U	ng/L	P330746	
		Endosulfan II	4.1	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	4.1	U	ng/L	P330746	
		Mirex	2.1	U	ng/L	P330746	
		Permethrin	10	U	ng/L	P330746	
		Trifluralin	1.0	U	ng/L	P330746	
		Alpha-Chlordane	1.1	I	ng/L	P330746	
		Gamma-Chlordane	1.1	I	ng/L	P330746	
		Endrin Ketone	2.1	U	ng/L	P330746	
		Dicofol	31	U	ng/L	P330746	RPD
	EPA 8276	Chlordane**	12		ng/L	P330746	
		Toxaphene**	13	U	ng/L	P330746	
1923075	EPA 8270D	Alachlor	0.24	U	ng/L	P330733	
		Ametryn	0.31	U	ng/L	P330733	
		Atrazine	0.49	I	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	
		Hexazinone	5.9		ng/L	P330733	
		Malathion	0.34	U	ng/L	P330733	

Field ID: G2SD082117-2

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923075	EPA 8270D	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	0.86	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	
		Terbutylazine	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:

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

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: Field Blank

Collection Date/Time: 08/21/2017 08:00

Field ID: SD082117-5

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923053	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P330657	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P330748	
		Sulfate	0.20	U	mg SO4/L	P330751	
	SM 2120 B	Color (true)	2.5	U	PCU	P330667	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P330956	
	SM 2540 C-97	TDS	15	U	mg/L	P330964	
	SM 2540 D-97	TSS	2	U	mg/L	P330982	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P330958	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P330834	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P330652	
1923056	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P330764	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P330708	
	SM 5310 B-00	Organic Carbon	0.50	U	mg C/L	P330864	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P330643	
	EPA 200.7 Rev. 4.4	Calcium	0.075	U	mg/L	P330710	
1923059		Iron	30	U	ug/L	P330710	
		Magnesium	0.040	U	mg/L	P330710	
		Potassium	0.30	U	mg/L	P330710	

Field ID: SD082117-5

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923079	EPA 200.7 Rev. 4.4	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.

Sample Location: Field Blank

Collection Date/Time: 08/21/2017 08:00

Field ID: SD082117-5

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923070	EPA 8321B	Glyphosate**	0.50	U	ug/L	P330738	
		Pyraclostrobin**	0.0020	U	ug/L	P330487	RPD
		Sucralose**	0.010	U	ug/L	P330689	
	USGS O-2060-01	2,4-D	0.0020	U	ug/L	P330602	
		Diuron	8.0E-04	U	ug/L	P330602	
		Fenuron	0.0080	U	ug/L	P330602	
		Imidacloprid	8.0E-04	U	ug/L	P330602	
		Bentazon	8.0E-04	U	ug/L	P330602	
		Linuron	0.0040	U	ug/L	P330602	
		Acetaminophen**	0.0080	U	ug/L	P330602	MS
		MCP	0.0020	U	ug/L	P330602	
		Carbamazepine**	4.0E-04	U	ug/L	P330602	
		Triclopyr**	0.0040	U	ug/L	P330602	
		Primidone**	0.0040	U	ug/L	P330602	
		Fluridone**	4.0E-04	U	ug/L	P330602	
	EPA 8270D	Aldrin	4.3	U	ng/L	P330746	
		Alpha-BHC	2.1	U	ng/L	P330746	
		Beta-BHC	4.3	U	ng/L	P330746	
		Delta-BHC	4.3	U	ng/L	P330746	
		Gamma-BHC	4.3	U	ng/L	P330746	
		Carbophenothion	4.3	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	4.3	U	ng/L	P330746	
		Endosulfan I	4.3	U	ng/L	P330746	
		Endosulfan II	4.3	U	ng/L	P330746	
		Endosulfan Sulfate	2.1	U	ng/L	P330746	

Field ID: SD082117-5

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923073	EPA 8270D	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	4.3	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**	2.7	U	ng/L	P330746	
		Toxaphene**	13	U	ng/L	P330746	
1923076	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	
		Hexazinone	0.48	U	ng/L	P330733	
		Malathion	0.34	U	ng/L	P330733	
		Metribuzin	0.19	U	ng/L	P330733	MS
		Mevinphos	0.48	U	ng/L	P330733	
		Molinate	0.29	U	ng/L	P330733	
		Norflurazon	0.48	UJ	ng/L	P330733	CCV
		Pendimethalin	0.96	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	0.096	U	ng/L	P330733	

Field ID: SD082117-5

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923076	EPA 8270D	Terbutylazine	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:

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

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: Yucca Pen Creek @ Burnt Store Rd.

Collection Date/Time: 08/21/2017 10:00

Field ID: G2SD082117-3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923045	EPA 180.1 Rev. 2.0	Turbidity	0.80		NTU	P330657	
	EPA 300.0 Rev. 2.1	Chloride	24		mg Cl/L	P330748	
		Sulfate	1.3		mg SO4/L	P330751	
	SM 2120 B	Color (true)	110		PCU	P330666	
	SM 2320 B-97	Total Alkalinity	51		mg CaCO3/L	P330855	
	SM 2540 C-97	TDS	137		mg/L	P330968	
	SM 2540 D-97	TSS	2	U	mg/L	P330986	
	SM 4500 F-C-97	Fluoride	0.050	I	mg F/L	P330959	
1923047	EPA 350.1 Rev. 2.0	Ammonia-N	0.019		mg N/L	P330760	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P330652	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.006	I	mg N/L	P330764	
	EPA 365.1 Rev. 2.0	Total-P	0.010		mg P/L	P330708	
	SM 5310 B-00	Organic Carbon	20		mg C/L	P330864	
1923049	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P330642	

Ref. Method and Comment:

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

Sample Location: 2081 @ Burnt Store Road

Collection Date/Time: 08/21/2017 10:25

Field ID: G2SD082117-4

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923046	EPA 180.1 Rev. 2.0	Turbidity	7.2	A	NTU	P330657	
	EPA 300.0 Rev. 2.1	Chloride	31		mg Cl/L	P330748	
		Sulfate	8.5		mg SO4/L	P330751	
	SM 2120 B	Color (true)	120		PCU	P330666	
	SM 2320 B-97	Total Alkalinity	155		mg CaCO3/L	P330855	
	SM 2540 C-97	TDS	261		mg/L	P330968	
	SM 2540 D-97	TSS	10	I	mg/L	P330986	
	SM 4500 F-C-97	Fluoride	0.13		mg F/L	P330959	

Field ID: G2SD082117-4

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1923048	EPA 350.1 Rev. 2.0	Ammonia-N	0.027		mg N/L	P330760	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.82		mg N/L	P330652	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.050		mg N/L	P330764	
	EPA 365.1 Rev. 2.0	Total-P	0.064		mg P/L	P330708	
	SM 5310 B-00	Organic Carbon	16		mg C/L	P330864	
1923050	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.022		mg P/L	P330642	

Ref. Method and Comment:

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

Non-Conformance Report

NCR ID: 6633

Event(s)

WQAP-2017-08-22-03
WQAP-2017-08-22-03

Job(s)

TLH-2017-08-22-62
TLH-2017-08-22-62

Sample(s)

1923074
1923075

Test(s)

W-PSNP-TQ
W-PSNP-TQ

NCR Type: ANALYSIS

NCR Category: Analytical Measurement

Observation: CCV failures for some analytes were observed in this analysis.

Resolution: Instrument maintenance was performed and the instrument was recalibrated

Authorized by/Date: Marek Topolski 9/15/2017

NCR ID: 6634

Event(s)

WQAP-2017-08-22-03

Job(s)

TLH-2017-08-22-62

Sample(s)

1923076

Test(s)

W-PSNP-TQ

NCR Type: ANALYSIS

NCR Category: Analytical Measurement

Observation: CCV failures for some analytes were observed in this analysis.

Resolution: Instrument maintenance was performed and the instrument was recalibrated

Authorized by/Date: Marek Topolski 9/15/2017

The Non-Conformance Report details exceptions or problems encountered with the events/jobs/samples/test.
Please address questions to:

Chemistry Colin Wright (850) 245-8085
Biology Cheryl Swanson (850) 245-8177

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P330657

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

Quality Assurance Report Method Blank Results

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

Component	Result	Code	Units
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
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: P330748

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P330751

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P330760

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P330834

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P330652

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P330764

Component	Result	Code	Units
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Quality Assurance Report Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P330764

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P330708

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P330642

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P330643

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P330645

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270D

Batch ID: P330733

Component	Result	Code	Units
Hexazinone	0.50	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.20	U	ng/L
Metolachlor	0.25	U	ng/L
Metribuzin	0.20	U	ng/L
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Norflurazon	0.50	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.25	U	ng/L
Pendimethalin	1.0	U	ng/L
Phorate	0.25	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Simazine	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L

Reference Method: EPA 8270D

Batch ID: 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
Heptachlor Epoxide	2.0	U	ng/L
Methoxychlor	4.0	U	ng/L
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Trifluralin	1.0	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8276
Batch ID: P330746

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

Reference Method: EPA 8321B
Batch ID: P330487

Component	Result	Code	Units
Pyraclostrobin	0.0020	U	ug/L

Reference Method: EPA 8321B
Batch ID: P330492

Component	Result	Code	Units
Sucralose	0.010	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: P330666

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P330667

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P330855

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

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

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

Quality Assurance Report Method Blank Results

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: P330964

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P330968

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P330969

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P330982

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P330986

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P330987

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: P330959

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Quality Assurance Report Method Blank Results

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: P330864

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

Reference Method: USGS O-2060-01
 Batch ID: P330602

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P330748

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	95.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P330751

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	95.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P330760

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P330834

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P330652

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P330764

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO ₂ NO ₃ -N	108		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P330708

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	98.3		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P330642

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P330643

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	97.5		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P330645

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	91.6		P	90 - 110

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
Metaxyl	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
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
Terbuthylazine	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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P330746

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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: 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: P330487

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pyraclostrobin	110		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P330492

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	118		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

Quality Assurance Report Laboratory Control Sample Accuracy

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: P330855

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

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: P330959

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.0		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: P330864

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	101		P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P330602

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	74.1		P	40 - 150
Acetaminophen	149		P	30 - 150
Bentazon	104		P	40 - 150
Carbamazepine	118		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: USGS O-2060-01
Batch ID: P330602

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Diuron	109		P	40 - 150
Fenuron	123		P	40 - 150
Fluridone	87.3		P	40 - 150
Imidacloprid	131		P	40 - 160
Linuron	110		P	40 - 150
MCPP	76.2		P	40 - 150
Primidone	116		P	40 - 150
Triclopyr	73.9		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: P330748

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923030	Chloride	97.0		P	90 - 110
1923090	Chloride	97.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P330751

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923030	Sulfate	97.1		P	90 - 110
1923090	Sulfate	96.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P330760

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923008	Ammonia-N	97.4	96.1	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P330834

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923054	Ammonia-N	102	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P330652

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923054	Kjeldahl Nitrogen	99.4	99.9	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P330764

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923031	NO2NO3-N	107	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P330708

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923054	Total-P	95.9	97.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P330642

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1922933	O-Phosphate-P	94.1	93.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P330643

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923098	O-Phosphate-P	94.3	95.9	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P330645

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923057	O-Phosphate-P	92.1	93.3	P/P	90 - 110

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
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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P330746

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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

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: P330487

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1922598	Pyraclostrobin	111	75.3	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P330492

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1922732	Sucralose	97.6	121	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

Quality Assurance Report Matrix Spike Accuracy

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: P330959

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1922878	Fluoride	99.8	100	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: SM 5310 B-00
 Batch ID: P330864

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923055	Organic Carbon	92.5	94.2	P/P	85 - 115

Reference Method: USGS O-2060-01
 Batch ID: P330602

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1922735	2,4-D	114	97.9	P/P	40 - 150
1922735	Acetaminophen	157	137	F/P	30 - 150
1922735	Bentazon	57.0	59.5	P/P	40 - 150
1922735	Carbamazepine	127	130	P/P	40 - 150
1922735	Fenuron	76.9	74.8	P/P	40 - 150
1922735	Fluridone	80.7	75.2	P/P	40 - 150
1922735	Linuron	108	100	P/P	40 - 150
1922735	MCP	93.0	79.0	P/P	40 - 150
1922735	Primidone	115	113	P/P	40 - 150
1922735	Triclopyr	79.3	95.9	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P330657

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923046	Turbidity	0.0	Sample	P	0 - 20

Quality Assurance Report Precision

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: P330748

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923030	Chloride	2.92	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P330751

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923030	Sulfate	2.90	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P330760

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923008	Ammonia-N	0.784	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P330834

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923054	Ammonia-N	1.16	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P330652

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923054	Kjeldahl Nitrogen	0.241	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P330764

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923031	NO2NO3-N	0.466	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P330708

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923054	Total-P	1.43	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P330642

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1922933	O-Phosphate-P	0.658	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P330643

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923098	O-Phosphate-P	1.55	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P330645

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923057	O-Phosphate-P	1.20	Spike	P	0 - 20

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

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P330733

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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	Terbutylazine	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
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

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	Fonofos	7.61	LCS	P	0 - 30
LFB	Hexazinone	6.58	LCS	P	0 - 30
LFB	Malathion	4.73	LCS	P	0 - 30
LFB	Metalaxyl	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	Terbutylazine	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
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

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P330746

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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: 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: P330487

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1922598	Pyraclostrobin	38.4	Spike	F	0 - 30

Reference Method: EPA 8321B
Batch ID: P330492

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1922732	Sucralose	4.68	Spike	P	0 - 30

Quality Assurance Report Precision

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: P330666

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1922919	Color (true)	1.26	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P330667

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923051	Color (true)	0.446	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P330855

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1922878	Total Alkalinity	0.175	Sample	P	0 - 4.8

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: P330964

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1922549	TDS	8.81	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 2540 C-97
Batch ID: P330968

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1922879	TDS	6.59	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P330969

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923051	TDS	5.00	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: P330959

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1922878	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: P330864

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1923055	Organic Carbon	1.04	Spike	P	0 - 20

Reference Method: USGS O-2060-01
Batch ID: P330602

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1922735	2,4-D	14.7	Spike	P	0 - 30
1922735	Acetaminophen	13.2	Spike	P	0 - 30
1922735	Bentazon	4.01	Spike	P	0 - 30
1922735	Carbamazepine	2.62	Spike	P	0 - 30
1922735	Diuron	18.6	Spike	P	0 - 30
1922735	Fenuron	2.74	Spike	P	0 - 30
1922735	Fluridone	7.01	Spike	P	0 - 30
1922735	Imidacloprid	5.59	Spike	P	0 - 30
1922735	Linuron	7.66	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: USGS O-2060-01
Batch ID: P330602

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1922735	MCP	16.2	Spike	P	0 - 30
1922735	Primidone	1.30	Spike	P	0 - 30
1922735	Triclopyr	19.0	Spike	P	0 - 30

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

Quality Assurance Report Surrogates

Lab Sample ID: 1923068
Field Sample ID: G2SD082117-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	157	P	30 - 160
EPA 8321B	Acetaminophen-d4	157	P	30 - 160
EPA 8321B	Carbamazepine-d10	104	P	30 - 160
EPA 8321B	Carbamazepine-d10	104	P	30 - 160
EPA 8321B	Diuron-d6	113	P	30 - 160
EPA 8321B	Diuron-d6	72.3	P	30 - 160
EPA 8321B	Diuron-d6	113	P	30 - 160
EPA 8321B	Diuron-d6	72.3	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	83.9	P	40 - 160
EPA 8321B	Primidone-d5	124	P	30 - 160
EPA 8321B	Primidone-d5	124	P	30 - 160
EPA 8321B	Sucralose-d6	69.3	P	40 - 160
EPA 8321B	Sucralose-d6	69.3	P	40 - 160
USGS O-2060-01	2,4-D-d3	124	P	40 - 160
USGS O-2060-01	Acetaminophen-d4	157	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	104	P	30 - 160
USGS O-2060-01	Diuron-d6	113	P	30 - 160
USGS O-2060-01	Diuron-d6	72.3	P	30 - 160
USGS O-2060-01	Primidone-d5	124	P	30 - 160
USGS O-2060-01	Sucralose-d6	69.3	P	40 - 160

Lab Sample ID: 1923069
Field Sample ID: G2SD082117-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	135	P	30 - 160
EPA 8321B	Acetaminophen-d4	135	P	30 - 160
EPA 8321B	Carbamazepine-d10	120	P	30 - 160
EPA 8321B	Carbamazepine-d10	120	P	30 - 160
EPA 8321B	Diuron-d6	107	P	30 - 160
EPA 8321B	Diuron-d6	74.0	P	30 - 160
EPA 8321B	Diuron-d6	107	P	30 - 160
EPA 8321B	Diuron-d6	74.0	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	90.3	P	40 - 160
EPA 8321B	Primidone-d5	117	P	30 - 160
EPA 8321B	Primidone-d5	117	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 1923069

Field Sample ID: G2SD082117-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	53.2	P	40 - 160
EPA 8321B	Sucralose-d6	53.2	P	40 - 160
USGS O-2060-01	2,4-D-d3	112	P	40 - 160
USGS O-2060-01	Acetaminophen-d4	135	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	120	P	30 - 160
USGS O-2060-01	Diuron-d6	107	P	30 - 160
USGS O-2060-01	Diuron-d6	74.0	P	30 - 160
USGS O-2060-01	Primidone-d5	117	P	30 - 160
USGS O-2060-01	Sucralose-d6	53.2	P	40 - 160

Lab Sample ID: 1923070

Field Sample ID: SD082117-5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	157	P	30 - 160
EPA 8321B	Acetaminophen-d4	157	P	30 - 160
EPA 8321B	Carbamazepine-d10	145	P	30 - 160
EPA 8321B	Carbamazepine-d10	145	P	30 - 160
EPA 8321B	Diuron-d6	138	P	30 - 160
EPA 8321B	Diuron-d6	124	P	30 - 160
EPA 8321B	Diuron-d6	138	P	30 - 160
EPA 8321B	Diuron-d6	124	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	96.7	P	40 - 160
EPA 8321B	Primidone-d5	131	P	30 - 160
EPA 8321B	Primidone-d5	131	P	30 - 160
EPA 8321B	Sucralose-d6	97.3	P	40 - 160
EPA 8321B	Sucralose-d6	97.3	P	40 - 160
USGS O-2060-01	2,4-D-d3	93.4	P	40 - 160
USGS O-2060-01	Acetaminophen-d4	157	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	145	P	30 - 160
USGS O-2060-01	Diuron-d6	138	P	30 - 160
USGS O-2060-01	Diuron-d6	124	P	30 - 160
USGS O-2060-01	Primidone-d5	131	P	30 - 160
USGS O-2060-01	Sucralose-d6	97.3	P	40 - 160

Lab Sample ID: 1923071

Field Sample ID: G2SD082117-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	73.5	P	39 - 118
EPA 8270D	Tetrachloro-m-xylene	45.7	P	32 - 103
EPA 8276	Decachlorobiphenyl	71.7	P	31 - 100

Lab Sample ID: 1923072

Field Sample ID: G2SD082117-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	82.2	P	39 - 118
EPA 8270D	Tetrachloro-m-xylene	46.2	P	32 - 103
EPA 8276	Decachlorobiphenyl	82.3	P	31 - 100

Quality Assurance Report Surrogates

Lab Sample ID: 1923073
Field Sample ID: SD082117-5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	69.4	P	39 - 118
EPA 8270D	Tetrachloro-m-xylene	56.1	P	32 - 103
EPA 8276	Decachlorobiphenyl	76.1	P	31 - 100

Lab Sample ID: 1923074
Field Sample ID: G2SD082117-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	61.7	P	53 - 135
EPA 8270D	Simazine-d10	86.4	P	71 - 126

Lab Sample ID: 1923075
Field Sample ID: G2SD082117-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	60.9	P	53 - 135
EPA 8270D	Simazine-d10	97.6	P	71 - 126

Lab Sample ID: 1923076
Field Sample ID: SD082117-5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	59.4	P	53 - 135
EPA 8270D	Simazine-d10	100	P	71 - 126

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A78568
Included Lab Sample IDs: 1923049, 1923050, 1923057, 1923058, 1923059

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	101	99.7	P/P	90 - 110
O-Phosphate-P	99.5	98.9	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A78571
Included Lab Sample IDs: 1923045, 1923046, 1923051, 1923052, 1923053

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

Reference Method: SM 2120 B
Run ID: A78573
Included Lab Sample IDs: 1923045, 1923046, 1923051, 1923052, 1923053

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	99.8	P/P	85 - 115
Color (true)	99.5	100	P/P	85 - 115

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A78584

Included Lab Sample IDs: 1923045, 1923046, 1923051, 1923052, 1923053

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	96.4	97.6	P/P	90 - 110
Sulfate	97.6	97.3	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A78593

Included Lab Sample IDs: 1923047, 1923048

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.2	96.9	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A78594

Included Lab Sample IDs: 1923047, 1923048, 1923054, 1923055, 1923056

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A78597

Included Lab Sample IDs: 1923048, 1923054

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.5	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A78605

Included Lab Sample IDs: 1923047, 1923048, 1923054, 1923055, 1923056

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A78613

Included Lab Sample IDs: 1923054, 1923055, 1923056

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

Reference Method: SM 2320 B-97

Run ID: A78617

Included Lab Sample IDs: 1923045, 1923046, 1923051, 1923052

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.7	102	P/P	90 - 110
Total Alkalinity	100	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A78618

Included Lab Sample IDs: 1923047, 1923055, 1923056

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A78618

Included Lab Sample IDs: 1923047, 1923055, 1923056

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

Reference Method: SM 5310 B-00

Run ID: A78619

Included Lab Sample IDs: 1923047, 1923048, 1923054, 1923055, 1923056

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	101	98.6	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A78635

Included Lab Sample IDs: 1923068, 1923069, 1923070

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraclostrobin	97.3	103	P/P	60 - 150

Reference Method: USGS O-2060-01

Run ID: A78635

Included Lab Sample IDs: 1923068, 1923069, 1923070

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	93.6	98.3	P/P	50 - 150
Acetaminophen	129	133	P/P	60 - 150
Bentazon	131	120	P/P	50 - 150
Carbamazepine	107	116	P/P	60 - 150
Diuron	118	113	P/P	60 - 150
Fenuron	117	121	P/P	60 - 150
Fluridone	114	120	P/P	60 - 160
Imidacloprid	123	141	P/P	60 - 150
Linuron	122	132	P/P	60 - 150
MCPP	90.6	89.9	P/P	50 - 150
Primidone	128	119	P/P	60 - 150
Triclopyr	99.6	101	P/P	50 - 160

Reference Method: EPA 8321B

Run ID: A78653

Included Lab Sample IDs: 1923068, 1923069, 1923070

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Glyphosate	97.3	95.9	P/P	70 - 160

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A78662

Included Lab Sample IDs: 1923077, 1923078, 1923079

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	101	99.9	P/P	90 - 110
Arsenic	104	104	P/P	90 - 110
Cadmium	98.9	98.2	P/P	90 - 110
Cadmium	99.6	99.7	P/P	90 - 110
Chromium	98.8	98.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A78662

Included Lab Sample IDs: 1923077, 1923078, 1923079

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chromium	99.8	100	P/P	90 - 110
Copper	100	100	P/P	90 - 110
Copper	101	103	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
Silver	95.7	96.3	P/P	90 - 110
Silver	96.7	97.7	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A78665

Included Lab Sample IDs: 1923077, 1923078, 1923079

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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
Magnesium	101	101	P/P	90 - 110
Magnesium	102	101	P/P	90 - 110
Potassium	96.5	96.5	P/P	90 - 110
Potassium	96.6	96.1	P/P	90 - 110
Sodium	98.3	97.3	P/P	90 - 110
Sodium	98.3	98.3	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: 1923053

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	102	99.8	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A78669

Included Lab Sample IDs: 1923045, 1923046, 1923051, 1923052, 1923053

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	101	P/P	90 - 110
Fluoride	101	102	P/P	90 - 110
Fluoride	98.5	100	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A78764

Included Lab Sample IDs: 1923071, 1923072, 1923073

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	102		P	80 - 120
Toxaphene	110		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A78774

Included Lab Sample IDs: 1923069, 1923070

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	123	132	P/P	60 - 150
Sucralose	132	136	P/P	60 - 150

Reference Method: EPA 8270D

Run ID: A78789

Included Lab Sample IDs: 1923071, 1923072, 1923073

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
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: 1923068

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	119	134	P/P	60 - 150

Reference Method: EPA 8270D

Run ID: A78857

Included Lab Sample IDs: 1923076

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	96.6		P	80 - 120
Alachlor	96.2		P	80 - 120
Ametryn	89.0		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D
Run ID: A78857
Included Lab Sample IDs: 1923076

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	90.3		P	80 - 120
Atrazine Desethyl	93.3		P	80 - 120
Azinphos Methyl	113		P	80 - 120
Bromacil	87.5		P	80 - 120
Butylate	102		P	80 - 120
Chlorpyrifos Ethyl	93.5		P	80 - 120
Chlorpyrifos Methyl	99.5		P	80 - 120
Cyanazine	82.4		P	80 - 120
Demeton	95.0		P	80 - 120
Diazinon	91.7		P	80 - 120
Disulfoton	93.7		P	80 - 120
EPTC	92.6		P	80 - 120
Ethion	86.8		P	80 - 120
Ethoprop	98.3		P	80 - 120
Fenamiphos	88.4		P	80 - 120
Fipronil	82.9		P	80 - 120
Fipronil Sulfide	88.8		P	80 - 120
Fipronil Sulfone	87.1		P	80 - 120
Fonofos	96.0		P	80 - 120
Hexazinone	96.8		P	80 - 120
Malathion	88.9		P	80 - 120
Metalaxyl	92.4		P	80 - 120
Metolachlor	94.2		P	80 - 120
Metribuzin	100		P	80 - 120
Mevinphos	95.6		P	80 - 120
Molinate	93.6		P	80 - 120
Norflurazon	79.6*		F	80 - 120
Parathion Ethyl	89.0		P	80 - 120
Parathion Methyl	99.3		P	80 - 120
Pendimethalin	84.3		P	80 - 120
Phorate	96.4		P	80 - 120
Prometon	99.0		P	80 - 120
Prometryn	92.6		P	80 - 120
Simazine	92.1		P	80 - 120
Terbufos	96.3		P	80 - 120
Terbuthylazine	93.2		P	80 - 120

Reference Method: EPA 8270D
Run ID: A78885
Included Lab Sample IDs: 1923074, 1923075

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A78885

Included Lab Sample IDs: 1923074, 1923075

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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

* 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				0.0	
EPA 200.7 Rev. 4.4	Calcium	101	98.9	104		0.0484
	Iron	108	107	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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			Precision	
							LCS	SMP
EPA 200.8 Rev. 5.4	Copper	99.5		98.1	97.7	99.8		
	Lead	99.5		103	104	105		
	Nickel	101		100	100	102		
	Silver	103		107	105	106		
EPA 300.0 Rev. 2.1	Chloride	95.6		97.0	97.0			2.92
	Sulfate	95.6		97.1	96.9			2.90
EPA 350.1 Rev. 2.0	Ammonia-N	96.8		97.4	96.1			
	Ammonia-N	101		102	100			
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104		99.4	99.9			
EPA 353.2 Rev. 2.0	NO2NO3-N	108		107	108			
EPA 365.1 Rev. 2.0	Total-P	98.3		95.9	97.5			
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.3		94.1	93.4			
	O-Phosphate-P	97.5		94.3	95.9			
	O-Phosphate-P	91.6		92.1	93.3			
EPA 8270D	Acetochlor	98.0	89.3	89.2	95.3		9.29	
	Alachlor	97.6	92.7	86.7	92.3		5.10	
	Aldrin	49.5	49.1	62.2	61.7		0.641	
	Alpha-BHC	84.5	75.1	82.8	94.4		11.7	
	Alpha-Chlordane	85.1	85.0	85.5	97.1		0.0879	
	Ametryn	92.2	106	94.8	97.1		13.5	
	Atrazine	87.5	87.1	88.0	94.0		0.505	
	Atrazine Desethyl	90.8	97.4	76.4	87.2		6.95	
	Azinphos Methyl	113	109	103	104		4.19	
	Beta-BHC	91.6	101	102	134		10.0	
	Bromacil	93.9	90.9	105	94.0		3.27	
	Butylate	50.3	51.0	24.8	38.7		1.39	
	Carbophenothion	75.6	84.1	91.3	105		10.6	
	Chlorothalonil	99.2	79.5	116	117		22.0	
	Chlorpyrifos Ethyl	87.9	83.5	76.8	84.1		5.14	
	Chlorpyrifos Methyl	90.8	88.7	83.5	86.9		2.34	
	Cyanazine	156	146	115	127		6.39	
	Cypermethrin	88.3	88.6	95.3	108		0.326	
	DDD-p,p'	92.7	92.1	89.9	109		0.604	
	DDE-p,p'	83.9	86.5	88.3	96.9		2.99	
	DDT-p,p'	83.9	79.8	81.4	88.1		4.93	
	Delta-BHC	118	123	143	164		3.44	
	Demeton	75.7	68.3	82.7	84.3		10.2	
	Diazinon	92.7	89.5	92.9	99.7		3.53	
	Dicofol	42.2	44.9	23.2	36.3		6.15	
	Dieldrin	87.8	89.8				2.25	
	Disulfoton	86.7	87.7	90.6	100		1.21	
	Endosulfan I	94.2	94.5	99.9	113		0.312	
	Endosulfan II	96.4	97.8	103	121		1.42	
	Endosulfan Sulfate	91.5	86.6	77.4	104		5.47	
	Endrin	90.4	66.7	78.5	99.4		30.0	
	Endrin Aldehyde	108	112	68.3	118		3.74	
	Endrin Ketone	86.6	96.5	86.8	103		10.7	
	EPTC	45.6	47.4	24.9	35.5		3.76	
	Ethion	85.5	82.3	87.3	91.9		3.81	
	Ethoprop	69.4	70.7	72.5	77.8		1.94	
	Fenamiphos	93.5	91.0	86.3	80.8		2.65	
	Fipronil	102	96.6	104	105		5.34	
	Fipronil Sulfide	92.2	82.8	88.4	89.9		10.7	
	Fipronil Sulfone	78.3	74.4	74.4	76.0		5.19	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Fonofos	78.3	84.5	75.3	88.6	7.61	16.2
	Gamma-BHC	87.5	93.0	117	110	6.08	5.92
	Gamma-Chlordane	83.3	83.8	83.0	95.7	0.535	13.3
	Heptachlor	70.7	67.1	67.7	70.8	5.09	4.58
	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	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	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	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
	Terbuthylazine	82.5	81.1	82.4	84.6	1.78	2.69
	Trifluralin	113	108	140	156	5.03	10.8
EPA 8276	Chlordane	101	106	92.6	101	4.76	7.59
	Toxaphene	108	118	104	109	8.72	4.14
EPA 8321B	Glyphosate	102		92.6	95.6		3.12
	Pyraclostrobin	110		111	75.3		38.4
	Sucralose	118		97.6	121		4.68
	Sucralose	93.5		111	106		4.46
SM 2120 B	Color (true)					1.26	
	Color (true)					0.446	
SM 2320 B-97	Total Alkalinity	102				0.175	
	Total Alkalinity	108				0.718	
	Total Alkalinity	103				0.0509	
SM 2540 C-97	TDS					8.81	
	TDS					6.59	
	TDS					5.00	
SM 4500 F-C-97	Fluoride	97.5		101	102		0.473
	Fluoride	98.0		99.8	100		0.473
	Fluoride	101		100	100		0.0
SM 5310 B-00	Organic Carbon	101		92.5	94.2		1.04
USGS O-2060-01	2,4-D	74.1		114	97.9		14.7
	Acetaminophen	149		157	137		13.2
	Bentazon	104		57.0	59.5		4.01
	Carbamazepine	118		127	130		2.62
	Diuron	109					18.6
	Fenuron	123		76.9	74.8		2.74
	Fluridone	87.3		80.7	75.2		7.01
	Imidacloprid	131					5.59
	Linuron	110		108	100		7.66
	MCP	76.2		79.0	93.0		16.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
USGS O-2060-01	Primidone	116	115	113		1.30
	Triclopyr	73.9	79.3	95.9		19.0

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1923045, 1923046, 1923051, 1923052, 1923053
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1923077, 1923078, 1923079
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1923077, 1923078, 1923079
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1923045, 1923046, 1923051, 1923052, 1923053
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1923045, 1923046, 1923051, 1923052, 1923053
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1923047, 1923048, 1923054, 1923055, 1923056
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1923047, 1923048, 1923054, 1923055, 1923056
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1923047, 1923048, 1923054, 1923055, 1923056
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1923047, 1923048, 1923054, 1923055, 1923056
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1923049, 1923050, 1923057, 1923058, 1923059
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	1923071, 1923072, 1923073
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1923074, 1923075, 1923076
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	1923071, 1923072, 1923073
EPA 8321B / E31780	Analysis of sucralose in water matrices by HPLC/MS/MS	1923068, 1923069, 1923070
EPA 8321B / E31780	Glyphosate in water matrices by HPLC/MS/MS	1923068, 1923069, 1923070
EPA 8321B / E31780	Pyraclostrobin in water matrices by HPLC/MS/MS	1923068, 1923069, 1923070
SM 2120 B / E31780	True Color measured at 450 nm	1923045, 1923046, 1923051, 1923052, 1923053
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1923045, 1923046, 1923051, 1923052, 1923053
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1923045, 1923046, 1923051, 1923052, 1923053
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1923045, 1923046, 1923051, 1923052, 1923053
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1923045, 1923046, 1923051, 1923052, 1923053
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1923047, 1923048, 1923054, 1923055, 1923056
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1923068, 1923069, 1923070
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1923068, 1923069, 1923070

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	08/22/2017			08/22/2017 17:11	Tanya Welborn	1923045, 1923046, 1923051, 1923052, 1923053
EPA 200.7 Rev. 4.4	08/22/2017	08/23/2017	Elliott D. Healy	08/28/2017	Betina Topolski	1923077, 1923078, 1923079
EPA 200.8 Rev. 5.4	08/22/2017	08/23/2017	Elliott D. Healy	08/28/2017	Nadine Brooks	1923077, 1923078, 1923079
EPA 300.0 Rev. 2.1	08/22/2017			08/23/2017	Julia Storbeck	1923045, 1923046, 1923051, 1923052, 1923053
EPA 350.1 Rev. 2.0	08/22/2017			08/23/2017	Sofia Elnemr	1923047, 1923048
	08/22/2017			08/24/2017	Sofia Elnemr	1923054, 1923055, 1923056
EPA 351.2 Rev. 2.0	08/22/2017	08/23/2017	Adrian Shelby	08/24/2017	Joseph Suarez	1923047, 1923048, 1923054, 1923055, 1923056
EPA 353.2 Rev. 2.0	08/22/2017			08/24/2017	Beverly Y. Sanders	1923047, 1923048, 1923054, 1923055, 1923056
EPA 365.1 Rev. 2.0	08/22/2017	08/23/2017	Sima Feizi	08/24/2017	Lipi Saha	1923047, 1923048, 1923054, 1923055, 1923056
EPA 365.1 Rev. 2.0 dissolved	08/22/2017			08/22/2017 14:57	Megan Treadwell	1923057
	08/22/2017			08/22/2017 15:23	Megan Treadwell	1923049
	08/22/2017			08/22/2017 15:24	Megan Treadwell	1923050
	08/22/2017			08/22/2017 15:25	Megan Treadwell	1923058, 1923059
EPA 8270D	08/22/2017	08/24/2017	John Kaba	08/31/2017	Marek Topolski	1923071, 1923072, 1923073
	08/22/2017	08/25/2017	John Kaba	08/29/2017	Irina Carbone	1923074, 1923075
	08/22/2017	08/25/2017	John Kaba	09/06/2017	Irina Carbone	1923076
EPA 8276	08/22/2017	08/24/2017	John Kaba	08/31/2017	Vandana T. Nagar	1923071, 1923072, 1923073
EPA 8321B	08/22/2017	08/22/2017	Hoor Shaik	08/24/2017	Julie Michelle Frank	1923068, 1923069, 1923070
	08/22/2017	08/24/2017	Julie Michelle Frank	08/24/2017	Julie Michelle Frank	1923068, 1923069, 1923070
	08/22/2017	08/25/2017	Hoor Shaik	09/01/2017	Julie Michelle Frank	1923069
	08/22/2017	08/25/2017	Hoor Shaik	09/05/2017	Julie Michelle Frank	1923068
	08/22/2017	08/28/2017	Julie Michelle Frank	09/01/2017	Julie Michelle Frank	1923070
SM 2120 B	08/22/2017			08/22/2017 15:44	Tanya Welborn	1923045
	08/22/2017			08/22/2017 15:45	Tanya Welborn	1923046
	08/22/2017			08/22/2017 15:48	Tanya Welborn	1923051
	08/22/2017			08/22/2017 15:49	Tanya Welborn	1923052
	08/22/2017			08/22/2017 15:50	Tanya Welborn	1923053
SM 2320 B-97	08/22/2017			08/24/2017	Dale L. Simmons	1923045, 1923046
	08/22/2017			08/25/2017	Dale L. Simmons	1923051, 1923052
	08/22/2017			08/28/2017	Dale L. Simmons	1923053
SM 2540 C-97	08/22/2017			08/23/2017	Yijie Li	1923045, 1923046, 1923051, 1923052, 1923053
SM 2540 D-97	08/22/2017			08/23/2017	Yijie Li	1923045, 1923046, 1923051, 1923052, 1923053
SM 4500 F-C-97	08/22/2017			08/28/2017	Dale L. Simmons	1923053
	08/22/2017			08/29/2017	Dale L. Simmons	1923045, 1923046, 1923051, 1923052
SM 5310 B-00	08/22/2017			08/24/2017	Ping Hua	1923055

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 5310 B-00	08/22/2017			08/25/2017	Ping Hua	1923047, 1923048, 1923054, 1923056
USGS O-2060-01	08/22/2017	08/23/2017	Hoor Shaik	08/25/2017	Juyoung Kim	1923068, 1923069, 1923070