

Chemical Analysis Report

NE-DIST-2017-09-01-01

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

Event Description: **SUW 5-6/28/17**
Request ID: **RQ-2017-08-21-11**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
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8800 Baymeadows Way W
Suite 100
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Certified by: Colin Wright, Program Administrator

Date Certified: 28-SEP-2017 10:18

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

Case Narrative

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

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

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

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

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Alligator Creek above Starke WWTP on US 301 Collection Date/Time: 08/31/2017 09:10

Field ID: G1NE0557 08312017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1927107	EPA 180.1 Rev. 2.0	Turbidity	9.4	A	NTU	P331210	
	EPA 300.0 Rev. 2.1	Chloride	17		mg Cl/L	P331707	
		Sulfate	16		mg SO4/L	P331709	
	SM 2120 B	Color (true)	290		PCU	P331213	
	SM 2320 B-97	Total Alkalinity	25		mg CaCO3/L	P331537	
	SM 2540 C-97	TDS	152		mg/L	P331549	
	SM 2540 D-97	TSS	9	I	mg/L	P331580	
	SM 4500 F-C-97	Fluoride	0.051	I	mg F/L	P331540	
1927110	EPA 350.1 Rev. 2.0	Ammonia-N	0.15		mg N/L	P331461	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P331306	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.054		mg N/L	P331316	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P331259	
	SM 5310 B-00	Organic Carbon	26		mg C/L	P331763	
1927113	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.062		mg P/L	P331206	

Ref. Method and Comment:

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

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

Sample Location: Alligator Creek above Starke WWTP on US 301 Collection Date/Time: 08/31/2017 09:10

Field ID: G1NE0557 08312017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1927172	EPA 8321B	Sucralose**	0.024	I	ug/L	P331186	MS, RPD
	USGS O-2060-01	2,4-D	0.0020	U	ug/L	P331187	
		Diuron	8.0E-04	U	ug/L	P331187	
		Fenuron	0.0080	U	ug/L	P331187	
		Imidacloprid	0.037		ug/L	P331187	MS
		Bentazon	8.0E-04	U	ug/L	P331187	MS
		Linuron	0.0040	U	ug/L	P331187	
		Acetaminophen**	0.0080	U	ug/L	P331187	
		MCP	0.0020	U	ug/L	P331187	
		Carbamazepine**	4.0E-04	U	ug/L	P331187	
		Triclopyr**	0.0040	U	ug/L	P331187	
		Primidone**	0.0040	U	ug/L	P331187	
		Fluridone**	4.0E-04	U	ug/L	P331187	

Sample Location: Montechoa Creek @ CR 340 (NE 156th Ave.) Collection Date/Time: 08/31/2017 09:45

Field ID: G1NE0591 08312017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1927108	EPA 180.1 Rev. 2.0	Turbidity	1.9		NTU	P331210	
	EPA 300.0 Rev. 2.1	Chloride	7.5		mg Cl/L	P331707	
		Sulfate	0.28	I	mg SO4/L	P331709	
	SM 2120 B	Color (true)	920		PCU	P331213	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P331537	

Field ID: G1NE0591 08312017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1927108	SM 2540 C-97	TDS	160		mg/L	P331550	
	SM 2540 D-97	TSS	2	U	mg/L	P331581	
	SM 4500 F-C-97	Fluoride	0.047	I	mg F/L	P331540	
1927111	EPA 350.1 Rev. 2.0	Ammonia-N	0.27		mg N/L	P331461	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.2		mg N/L	P331571	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P331316	
	EPA 365.1 Rev. 2.0	Total-P	0.17		mg P/L	P331259	
	SM 5310 B-00	Organic Carbon	69		mg C/L	P331763	
1927114	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.10		mg P/L	P331206	

Ref. Method and Comment:

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

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

Sample Location: Montechoa Creek @ CR 340 (NE 156th Ave.)

Collection Date/Time: 08/31/2017 09:45

Field ID: G1NE0591 08312017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1927173	EPA 8321B	Sucralose**	0.020	U	ug/L	P331186	MS, RPD
	USGS O-2060-01	2,4-D	0.0020	U	ug/L	P331187	
		Diuron	8.0E-04	U	ug/L	P331187	
		Fenuron	0.0080	U	ug/L	P331187	
		Imidacloprid	8.0E-04	U	ug/L	P331187	MS
		Bentazon	8.0E-04	U	ug/L	P331187	MS
		Linuron	0.0040	U	ug/L	P331187	
		Acetaminophen**	0.0080	U	ug/L	P331187	
		MCP	0.0020	U	ug/L	P331187	
		Carbamazepine**	4.0E-04	U	ug/L	P331187	
		Triclopyr**	0.0040	U	ug/L	P331187	
		Primidone**	0.0040	U	ug/L	P331187	
		Fluridone**	4.0E-04	U	ug/L	P331187	

Ref. Method and Comment:

EPA 8321B: MDL elevated due to matrix interference.

Sample Location: Turkey Creek @ NW 59th

Collection Date/Time: 08/31/2017 10:55

Field ID: G1NE0018 08312017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1927109	EPA 180.1 Rev. 2.0	Turbidity	2.8		NTU	P331210	
	EPA 300.0 Rev. 2.1	Chloride	11		mg Cl/L	P331707	
		Sulfate	3.3		mg SO4/L	P331709	
	SM 2120 B	Color (true)	720		PCU	P331213	
	SM 2320 B-97	Total Alkalinity	51		mg CaCO3/L	P331537	
	SM 2540 C-97	TDS	188		mg/L	P331550	
	SM 2540 D-97	TSS	2	I	mg/L	P331581	
	SM 4500 F-C-97	Fluoride	0.19		mg F/L	P331540	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.020		mg N/L	P331462	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P331571	

Field ID: G1NE0018 08312017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1927112	EPA 353.2 Rev. 2.0	NO2NO3-N	0.15		mg N/L	P331316	
	EPA 365.1 Rev. 2.0	Total-P	0.34		mg P/L	P331259	
	SM 5310 B-00	Organic Carbon	47		mg C/L	P331763	
1927115	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.27		mg P/L	P331206	

Ref. Method and Comment:

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

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

Sample Location: Turkey Creek @ NW 59th

Collection Date/Time: 08/31/2017 10:55

Field ID: G1NE0018 08312017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1927174	EPA 8321B	Sucralose**	0.064	I	ug/L	P331186	MS, RPD
	USGS O-2060-01	2,4-D	0.0020	U	ug/L	P331187	
		Diuron	0.016		ug/L	P331187	
		Fenuron	0.016	I	ug/L	P331187	
		Imidacloprid	0.0087		ug/L	P331187	MS
		Bentazon	8.0E-04	U	ug/L	P331187	MS
		Linuron	0.0040	U	ug/L	P331187	
		Acetaminophen**	0.0080	U	ug/L	P331187	
		MCP	0.0020	U	ug/L	P331187	
		Carbamazepine**	4.0E-04	U	ug/L	P331187	
		Triclopyr**	0.0040	U	ug/L	P331187	
		Primidone**	0.0040	U	ug/L	P331187	
		Fluridone**	4.0E-04	U	ug/L	P331187	

Ref. Method and Comment:

EPA 8321B: MDL elevated due to matrix interference.

Sample Location: Hague Branch Trib @ US 441 80 M W 77th Terrace

Collection Date/Time: 08/31/2017 10:30

Field ID: G1NE0631 08312017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1927116	EPA 180.1 Rev. 2.0	Turbidity	2.5		NTU	P331210	
	EPA 300.0 Rev. 2.1	Chloride	25		mg Cl/L	P331707	
		Sulfate	26		mg SO4/L	P331709	
	SM 2120 B	Color (true)	120		PCU	P331213	
	SM 2320 B-97	Total Alkalinity	144		mg CaCO3/L	P331537	
	SM 2540 C-97	TDS	290	A	mg/L	P331550	
	SM 2540 D-97	TSS	2	IA	mg/L	P331581	
	SM 4500 F-C-97	Fluoride	0.29		mg F/L	P331540	
1927117	EPA 350.1 Rev. 2.0	Ammonia-N	0.022		mg N/L	P331462	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P331306	
	EPA 353.2 Rev. 2.0	NO2NO3-N	1.8		mg N/L	P331316	
	EPA 365.1 Rev. 2.0	Total-P	0.81		mg P/L	P331259	
	SM 5310 B-00	Organic Carbon	16		mg C/L	P331763	

Field ID: G1NE0631 08312017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1927118	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.73		mg P/L	P331206	
1927183	EPA 200.7 Rev. 4.4	Calcium	39.5		mg/L	P331282	
		Iron	360		ug/L	P331282	
		Magnesium	13.8		mg/L	P331282	
		Potassium	17.4		mg/L	P331282	
		Sodium	24.1		mg/L	P331282	
		Zinc	5.0	U	ug/L	P331282	
	EPA 200.8 Rev. 5.4	Arsenic	1.10		ug/L	P331282	
		Cadmium	0.547		ug/L	P331282	
		Chromium	0.67	I	ug/L	P331282	
		Copper	0.63	I	ug/L	P331282	
		Lead	0.14	I	ug/L	P331282	
		Nickel	2.71		ug/L	P331282	
		Silver	0.010	U	ug/L	P331282	

Ref. Method and Comment:

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

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

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for sodium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: Hague Branch Trib @ US 441 80 M W 77th Terrace

Collection Date/Time: 08/31/2017 10:30

Field ID: G1NE0631 08312017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1927171	EPA 8321B	Glyphosate**	2.8	J	ug/L	P331308	RPD
		Pyraclostrobin**	0.0050	U	ug/L	P331322	
		Sucralose**	0.096	J	ug/L	P331186	MS, RPD
	USGS O-2060-01	2,4-D	0.0043	I	ug/L	P331187	
		Diuron	8.0E-04	U	ug/L	P331187	
		Fenuron	0.0080	U	ug/L	P331187	
		Imidacloprid	8.0E-04	UJ	ug/L	P331187	MS
		Bentazon	8.0E-04	UJ	ug/L	P331187	MS
		Linuron	0.0040	U	ug/L	P331187	
		Acetaminophen**	0.0080	U	ug/L	P331187	
		MCP	0.0020	U	ug/L	P331187	
		Carbamazepine**	4.0E-04	U	ug/L	P331187	
		Triclopyr**	0.0040	U	ug/L	P331187	
		Primidone**	0.0040	U	ug/L	P331187	
		Fluridone**	4.0E-04	U	ug/L	P331187	
1927175	EPA 8270D	Aldrin	4.1	UJ	ng/L	P331295	LCS
		Alpha-BHC	2.1	U	ng/L	P331295	
		Beta-BHC	4.1	U	ng/L	P331295	RPD
		Delta-BHC	4.1	U	ng/L	P331295	
		Gamma-BHC	4.1	U	ng/L	P331295	
		Carbophenothion	4.1	U	ng/L	P331295	
		Chlorothalonil	2.1	UJ	ng/L	P331295	CCV

Field ID: G1NE0631 08312017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1927175	EPA 8270D	Cypermethrin	21	U	ng/L	P331295	
		DDD-p,p'	3.1	U	ng/L	P331295	
		DDE-p,p'	3.1	U	ng/L	P331295	
		DDT-p,p'	3.1	U	ng/L	P331295	
		Dieldrin	4.1	U	ng/L	P331295	
		Endosulfan I	4.1	U	ng/L	P331295	
		Endosulfan II	4.1	U	ng/L	P331295	
		Endosulfan Sulfate	2.1	U	ng/L	P331295	
		Endrin	2.1	U	ng/L	P331295	
		Endrin Aldehyde	2.1	U	ng/L	P331295	RPD
		Heptachlor	1.5	U	ng/L	P331295	
		Heptachlor Epoxide	2.1	U	ng/L	P331295	
		Methoxychlor	4.1	U	ng/L	P331295	
		Mirex	2.1	U	ng/L	P331295	
		Permethrin	10	U	ng/L	P331295	
		Trifluralin	1.0	U	ng/L	P331295	
		Alpha-Chlordane	1.0	U	ng/L	P331295	
		Gamma-Chlordane	1.0	U	ng/L	P331295	
		Endrin Ketone	2.1	U	ng/L	P331295	
		Dicofol	31	U	ng/L	P331295	RPD
	EPA 8276	Chlordane**	2.6	U	ng/L	P331295	
		Toxaphene**	13	UJ	ng/L	P331295	LCS
1927176	EPA 8270D	Alachlor	0.24	U	ng/L	P331105	
		Ametryn	3.3		ng/L	P331105	
		Atrazine	260		ng/L	P331105	
		Atrazine Desethyl	21		ng/L	P331105	
		Azinphos Methyl	2.1	U	ng/L	P331105	
		Bromacil	9.5		ng/L	P331105	
		Butylate	0.38	U	ng/L	P331105	
		Chlorpyrifos Ethyl	0.25	I	ng/L	P331105	
		Chlorpyrifos Methyl	0.094	U	ng/L	P331105	
		Demeton	1.9	U	ng/L	P331105	
		Diazinon	0.12	U	ng/L	P331105	
		Disulfoton	0.47	U	ng/L	P331105	
		EPTC	1.2	UJ	ng/L	P331105	RPD
		Ethion	0.14	U	ng/L	P331105	
		Ethoprop	0.094	U	ng/L	P331105	
		Fenamiphos	0.24	U	ng/L	P331105	MS, RPD
		Fipronil	0.24	U	ng/L	P331105	
		Fipronil Sulfide	0.14	U	ng/L	P331105	
		Fipronil Sulfone	0.14	U	ng/L	P331105	
		Hexazinone	2.8		ng/L	P331105	
		Malathion	0.33	U	ng/L	P331105	
		Metribuzin	0.19	UJ	ng/L	P331105	LCS, MS, RPD

Field ID: G1NE0631 08312017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1927176	EPA 8270D	Mevinphos	0.47	U	ng/L	P331105	
		Molinate	0.28	UJ	ng/L	P331105	RPD
		Norflurazon	0.47	UJ	ng/L	P331105	CCV
		Pendimethalin	0.94	U	ng/L	P331105	
		Phorate	0.24	U	ng/L	P331105	
		Prometon	4.6		ng/L	P331105	
		Prometryn	0.19	U	ng/L	P331105	
		Simazine	0.47	U	ng/L	P331105	
		Terbufos	0.17	I	ng/L	P331105	
		Terbuthylazine	0.40	U	ng/L	P331105	MS
		Fonofos	0.19	U	ng/L	P331105	
		Metalaxyl	0.19	U	ng/L	P331105	
		Metolachlor	0.24	U	ng/L	P331105	MS
		Acetochlor	0.24	U	ng/L	P331105	MS
		Cyanazine	0.47	U	ng/L	P331105	
		Parathion Ethyl	0.24	U	ng/L	P331105	MS
		Parathion Methyl	0.24	U	ng/L	P331105	

Ref. Method and Comment:
EPA 8321B: Results confirmed in re-extraction. Refer to the narrative for an explanation of QC Codes.
EPA 8321B: Refer to the narrative for an explanation of QC Codes.
USGS O-2060-01: Refer to the narrative for an explanation of QC Codes.
EPA 8270D: Refer to the narrative for an explanation of QC Codes. MS accuracy for Heptachlor Epoxide not assessed due to high content of this parameter in the sample spiked.
EPA 8276: Refer to the narrative for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P331210

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P331282

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: P331282

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: P331282

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: P331707

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P331709

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331461

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331462

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P331306

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P331571

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P331316

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P331259

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: P331206

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

Reference Method: EPA 8270D
Batch ID: P331105

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
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: P331295

Component	Result	Code	Units
Aldrin	4.0	U	ng/L
Alpha-BHC	2.0	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D

Batch ID: P331295

Component	Result	Code	Units
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 8276

Batch ID: P331295

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

Reference Method: EPA 8321B

Batch ID: P331186

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B

Batch ID: P331308

Component	Result	Code	Units
Glyphosate	0.50	U	ug/L

Reference Method: EPA 8321B

Batch ID: P331322

Component	Result	Code	Units
Pyraclostrobin	0.0050	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: SM 2120 B
Batch ID: P331213

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P331537

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

Reference Method: SM 2540 C-97
Batch ID: P331549

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P331550

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P331580

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P331581

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P331540

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P331763

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

Reference Method: USGS O-2060-01
Batch ID: P331187

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

Quality Assurance Report Method Blank Results

Reference Method: USGS O-2060-01
Batch ID: P331187

Component	Result	Code	Units
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: P331282

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	108		P	85 - 115
Iron	107		P	85 - 115
Magnesium	107		P	85 - 115
Potassium	99.6		P	85 - 115
Sodium	104		P	85 - 115
Zinc	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P331282

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	102		P	85 - 115
Cadmium	101		P	85 - 115
Chromium	98.9		P	85 - 115
Copper	95.8		P	85 - 115
Lead	99.9		P	85 - 115
Nickel	98.3		P	85 - 115
Silver	101		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P331707

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	96.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P331709

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	95.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331461

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

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P331461

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P331462

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

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P331306

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

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P331571

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: P331316

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P331259

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	94.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P331206

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

Reference Method: EPA 8270D
 Batch ID: P331105

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	85.7	101	P/P	78 - 118
Alachlor	85.3	99.1	P/P	77 - 119
Ametryn	84.0	91.5	P/P	61 - 136
Atrazine	81.0	93.6	P/P	73 - 120
Atrazine Desethyl	95.9	73.0	P/P	16 - 122
Azinphos Methyl	120	124	P/P	69 - 186
Bromacil	74.4	75.4	P/P	40 - 125
Butylate	56.4	73.0	P/P	32 - 87.0
Chlorpyrifos Ethyl	83.7	88.6	P/P	53 - 110
Chlorpyrifos Methyl	90.2	88.8	P/P	31 - 119

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P331105

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Cyanazine	133	107	P/P	36 - 224
Demeton	90.8	97.1	P/P	39 - 122
Diazinon	84.1	101	P/P	75 - 119
Disulfoton	96.3	102	P/P	42 - 139
EPTC	47.8	66.4	P/P	33 - 96.0
Ethion	80.6	81.8	P/P	63 - 127
Ethoprop	77.8	84.7	P/P	65 - 107
Fenamiphos	90.7	93.3	P/P	64 - 137
Fipronil	86.4	90.4	P/P	60 - 126
Fipronil Sulfide	81.9	77.2	P/P	58 - 124
Fipronil Sulfone	70.7	73.2	P/P	57 - 126
Fonofos	85.5	85.1	P/P	65 - 111
Hexazinone	86.4	94.1	P/P	46 - 151
Malathion	89.8	95.6	P/P	68 - 132
Metaxyl	78.5	95.0	P/P	51 - 132
Metolachlor	78.1	96.5	P/P	78 - 119
Metribuzin	196	111	F/P	58 - 148
Mevinphos	79.1	84.5	P/P	34 - 128
Molinate	53.1	77.6	P/P	44 - 101
Norflurazon	71.5	93.3	P/P	63 - 129
Parathion Ethyl	84.4	87.7	P/P	80 - 109
Parathion Methyl	101	94.6	P/P	74 - 125
Pendimethalin	76.6	84.1	P/P	48 - 134
Phorate	86.3	83.6	P/P	52 - 119
Prometon	81.9	97.7	P/P	69 - 124
Prometryn	81.9	94.3	P/P	66 - 124
Simazine	95.6	114	P/P	61 - 134
Terbufos	87.7	89.7	P/P	58 - 115
Terbutylazine	83.9	91.9	P/P	77 - 113

Reference Method: EPA 8270D
Batch ID: P331295

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	18.3	16.3	F/F	26 - 88.0
Alpha-BHC	68.1	77.8	P/P	63 - 114
Alpha-Chlordane	80.1	78.6	P/P	56 - 117
Beta-BHC	93.3	118	P/P	57 - 138
Carbophenothion	59.8	66.7	P/P	36 - 148
Chlorothalonil	85.3	64.3	P/P	26 - 173
Cypermethrin	92.4	89.1	P/P	42 - 159
DDD-p,p'	95.0	108	P/P	62 - 126
DDE-p,p'	70.0	80.1	P/P	53 - 115
DDT-p,p'	88.9	84.6	P/P	54 - 117
Delta-BHC	105	115	P/P	68 - 158
Dicofol	73.1	80.0	P/P	25 - 114
Dieldrin	83.7	93.7	P/P	59 - 126
Endosulfan I	78.9	76.9	P/P	62 - 138
Endosulfan II	99.4	111	P/P	61 - 150
Endosulfan Sulfate	98.0	89.0	P/P	63 - 132
Endrin	94.1	104	P/P	49 - 148
Endrin Aldehyde	84.9	94.0	P/P	50 - 144

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D

Batch ID: P331295

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endrin Ketone	93.0	83.5	P/P	66 - 122
Gamma-BHC	72.1	94.5	P/P	60 - 137
Gamma-Chlordane	85.7	81.0	P/P	54 - 113
Heptachlor	52.2	62.1	P/P	43 - 104
Heptachlor Epoxide	86.3	82.5	P/P	64 - 118
Methoxychlor	95.8	92.5	P/P	63 - 129
Mirex	72.6	68.9	P/P	39 - 93.0
Permethrin	85.3	80.6	P/P	51 - 123
Trifluralin	104	113	P/P	35 - 187

Reference Method: EPA 8276

Batch ID: P331295

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	116	121	P/P	48 - 121
Toxaphene	136	148	F/F	43 - 135

Reference Method: EPA 8321B

Batch ID: P331186

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	96.6		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P331308

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Glyphosate	86.7		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P331322

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

Reference Method: SM 2320 B-97

Batch ID: P331537

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

Reference Method: SM 4500 F-C-97

Batch ID: P331540

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.3		P	92 - 103

Reference Method: SM 5310 B-00

Batch ID: P331763

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.5		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: USGS O-2060-01
Batch ID: P331187

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	53.0		P	40 - 150
Acetaminophen	134		P	30 - 150
Bentazon	41.4		P	40 - 150
Carbamazepine	124		P	40 - 150
Diuron	103		P	40 - 150
Fenuron	114		P	40 - 150
Fluridone	68.5		P	40 - 150
Imidacloprid	94.9		P	40 - 160
Linuron	86.9		P	40 - 150
MCPP	52.9		P	40 - 150
Primidone	111		P	40 - 150
Triclopyr	54.0		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P331282

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1926531	Calcium	88.5		P	80 - 120
1926531	Iron	103		P	80 - 120
1926531	Magnesium	101		P	80 - 120
1926531	Potassium	100		P	80 - 120
1926531	Sodium	101		P	80 - 120
1926531	Zinc	98.5		P	80 - 120
1926941	Calcium	101	102	P/P	80 - 120
1926941	Iron	103	102	P/P	80 - 120
1926941	Magnesium	102	102	P/P	80 - 120
1926941	Potassium	99.9		P	80 - 120
1926941	Zinc	105	105	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P331282

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1926531	Arsenic	105		P	80 - 120
1926531	Cadmium	104		P	80 - 120
1926531	Chromium	97.4		P	80 - 120
1926531	Copper	95.4		P	80 - 120
1926531	Lead	100		P	80 - 120
1926531	Nickel	97.3		P	80 - 120
1926531	Silver	102		P	80 - 120
1926941	Arsenic	109	108	P/P	80 - 120
1926941	Cadmium	104	103	P/P	80 - 120
1926941	Chromium	94.8	94.6	P/P	80 - 120
1926941	Copper	97.9	97.2	P/P	80 - 120
1926941	Lead	103	102	P/P	80 - 120
1926941	Nickel	98.6	98.5	P/P	80 - 120
1926941	Silver	101	101	P/P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P331707

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1927392	Chloride	95.8		P	90 - 110
1927394	Chloride	95.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P331709

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1927392	Sulfate	94.6		P	90 - 110
1927394	Sulfate	94.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331461

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1927087	Ammonia-N	99.9	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331462

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1927117	Ammonia-N	102	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P331306

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1927400	Kjeldahl Nitrogen	101	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P331571

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1927549	Kjeldahl Nitrogen	99.9	99.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P331316

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1927086	NO2NO3-N	99.7	97.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P331259

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1927110	Total-P	94.3	93.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P331206

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1927004	O-Phosphate-P	95.7	96.1	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P331105

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1926042	Acetochlor	68.9	66.9	F/F	74 - 123
1926042	Alachlor	73.5	73.8	P/P	73 - 124
1926042	Ametryn	75.1	73.1	P/P	56 - 149
1926042	Atrazine	88.4	90.0	P/P	73 - 124
1926042	Atrazine Desethyl	78.6	77.9	P/P	12 - 103
1926042	Azinphos Methyl	126	110	P/P	60 - 202
1926042	Bromacil	58.0	66.3	P/P	42 - 133
1926042	Butylate	44.5	40.6	P/P	10 - 85.0
1926042	Chlorpyrifos Ethyl	65.7	70.0	P/P	53 - 113
1926042	Chlorpyrifos Methyl	78.6	75.7	P/P	40 - 115
1926042	Cyanazine	141	150	P/P	22 - 210
1926042	Demeton	89.7	91.5	P/P	17 - 149
1926042	Diazinon	89.2	77.3	P/P	72 - 124
1926042	Disulfoton	104	96.4	P/P	43 - 139
1926042	EPTC	38.8	29.6	P/P	10 - 86.0
1926042	Ethion	91.8	75.4	P/P	65 - 131
1926042	Ethoprop	83.8	75.7	P/P	59 - 110
1926042	Fenamiphos	103	56.6	P/F	57 - 138
1926042	Fipronil	86.8	81.5	P/P	40 - 130
1926042	Fipronil Sulfide	76.7	70.9	P/P	36 - 128
1926042	Fipronil Sulfone	62.8	64.7	P/P	16 - 145
1926042	Fonofos	82.6	74.2	P/P	60 - 112
1926042	Hexazinone	89.6	85.7	P/P	69 - 142
1926042	Malathion	87.0	82.1	P/P	68 - 132
1926042	Metalaxyl	74.2	78.3	P/P	66 - 118
1926042	Metolachlor	57.0	68.4	F/F	71 - 124
1926042	Metribuzin	249	260	F/F	61 - 140
1926042	Mevinphos	87.7	81.5	P/P	38 - 130
1926042	Molinate	50.5	40.8	P/P	23 - 99.0
1926042	Norflurazon	87.9	84.6	P/P	39 - 139
1926042	Parathion Ethyl	80.0	73.2	P/F	75 - 111
1926042	Parathion Methyl	107	86.2	P/P	64 - 130
1926042	Pendimethalin	81.5	67.3	P/P	26 - 173
1926042	Phorate	73.3	72.6	P/P	43 - 127
1926042	Prometon	77.1	69.3	P/P	50 - 144
1926042	Prometryn	77.6	79.7	P/P	69 - 126
1926042	Simazine	107	109	P/P	51 - 152
1926042	Terbufos	90.6	83.1	P/P	54 - 125
1926042	Terbutylazine	76.0	73.5	P/F	76 - 113

Reference Method: EPA 8270D
Batch ID: P331295

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1927200	Aldrin	30.8	29.0	P/P	22 - 97.0
1927200	Alpha-BHC	88.2	85.0	P/P	43 - 132
1927200	Alpha-Chlordane	111	90.8	P/P	36 - 126
1927200	Beta-BHC	93.5	136	P/P	41 - 150
1927200	Carbophenothion	128	126	P/P	13 - 196
1927200	Chlorothalonil	121	140	P/P	10 - 266
1927200	Cypermethrin	95.3	110	P/P	37 - 161
1927200	DDD-p,p'	98.4	114	P/P	44 - 131

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D

Batch ID: P331295

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1927200	DDE-p,p'	97.3	84.4	P/P	32 - 127
1927200	DDT-p,p'	91.5	89.0	P/P	45 - 116
1927200	Delta-BHC	123	163	P/P	50 - 201
1927200	Dicofol	29.6	50.4	P/P	10 - 100
1927200	Dieldrin	119	105	P/P	39 - 142
1927200	Endosulfan I	100	87.4	P/P	51 - 139
1927200	Endosulfan II	123	141	P/P	49 - 155
1927200	Endosulfan Sulfate	89.1	113	P/P	54 - 136
1927200	Endrin	107	108	P/P	38 - 141
1927200	Endrin Aldehyde	53.4	75.0	P/P	14 - 152
1927200	Endrin Ketone	78.6	96.9	P/P	60 - 128
1927200	Gamma-BHC	86.6	103	P/P	48 - 157
1927200	Gamma-Chlordane	109	92.7	P/P	35 - 123
1927200	Heptachlor	74.0	70.8	P/P	25 - 112
1927200	Methoxychlor	98.9	93.3	P/P	52 - 127
1927200	Mirex	82.7	78.7	P/P	25 - 108
1927200	Permethrin	91.1	95.5	P/P	46 - 133
1927200	Trifluralin	159	160	P/P	29 - 254

Reference Method: EPA 8276

Batch ID: P331295

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1927270	Chlordane	113	111	P/P	44 - 134
1927270	Toxaphene	136	127	P/P	36 - 147

Reference Method: EPA 8321B

Batch ID: P331186

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1927171	Sucralose	34.7	9.82	F/F	40 - 150

Reference Method: EPA 8321B

Batch ID: P331308

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1927171	Glyphosate	96.6	141	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P331322

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1927875	Pyraclostrobin	96.0	96.1	P/P	40 - 150

Reference Method: SM 4500 F-C-97

Batch ID: P331540

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1927007	Fluoride	98.3	98.3	P/P	91 - 105

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 5310 B-00
 Batch ID: P331763

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1927449	Organic Carbon	100		P	85 - 115

Reference Method: USGS O-2060-01
 Batch ID: P331187

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1927171	2,4-D	58.1	60.9	P/P	40 - 150
1927171	Acetaminophen	64.5	63.0	P/P	30 - 150
1927171	Bentazon	30.9	29.1	F/F	40 - 150
1927171	Carbamazepine	100	98.5	P/P	40 - 150
1927171	Diuron	80.4	79.7	P/P	40 - 150
1927171	Fenuron	89.9	91.9	P/P	40 - 150
1927171	Fluridone	54.5	54.6	P/P	40 - 150
1927171	Imidacloprid	228	228	F/F	40 - 160
1927171	Linuron	95.7	94.0	P/P	40 - 150
1927171	MCCP	51.0	51.3	P/P	40 - 150
1927171	Primidone	111	107	P/P	40 - 150
1927171	Triclopyr	48.6	50.6	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P331210

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927107	Turbidity	0.0	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
 Batch ID: P331282

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1926941	Calcium	0.704	Spike	P	0 - 20
1926941	Iron	0.508	Spike	P	0 - 20
1926941	Magnesium	0.343	Spike	P	0 - 20
1926941	Potassium	0.464	Spike	P	0 - 20
1926941	Sodium	1.36	Spike	P	0 - 20
1926941	Zinc	0.0361	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
 Batch ID: P331282

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1926941	Arsenic	0.698	Spike	P	0 - 20
1926941	Cadmium	0.359	Spike	P	0 - 20
1926941	Chromium	0.230	Spike	P	0 - 20
1926941	Copper	0.720	Spike	P	0 - 20
1926941	Lead	0.249	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P331282

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1926941	Nickel	0.0562	Spike	P	0 - 20
1926941	Silver	0.0155	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P331707

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927392	Chloride	1.79	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331461

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927087	Ammonia-N	0.569	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331462

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927117	Ammonia-N	0.344	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P331306

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927400	Kjeldahl Nitrogen	0.252	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P331571

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927549	Kjeldahl Nitrogen	0.303	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P331316

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927086	NO2NO3-N	2.03	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P331259

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927110	Total-P	0.670	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P331206

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927004	O-Phosphate-P	0.385	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P331105

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1926042	Acetochlor	2.88	Spike	P	0 - 30
1926042	Alachlor	0.404	Spike	P	0 - 30
1926042	Ametryn	2.71	Spike	P	0 - 30
1926042	Atrazine	1.64	Spike	P	0 - 30
1926042	Atrazine Desethyl	0.839	Spike	P	0 - 30
1926042	Azinphos Methyl	14.1	Spike	P	0 - 30
1926042	Bromacil	6.92	Spike	P	0 - 30
1926042	Butylate	9.27	Spike	P	0 - 30
1926042	Chlorpyrifos Ethyl	6.37	Spike	P	0 - 30
1926042	Chlorpyrifos Methyl	3.73	Spike	P	0 - 30
1926042	Cyanazine	6.42	Spike	P	0 - 30
1926042	Demeton	1.98	Spike	P	0 - 30
1926042	Diazinon	14.2	Spike	P	0 - 30
1926042	Disulfoton	7.85	Spike	P	0 - 30
1926042	EPTC	27.0	Spike	P	0 - 30
1926042	Ethion	19.6	Spike	P	0 - 30
1926042	Ethoprop	10.2	Spike	P	0 - 30
1926042	Fenamiphos	58.6	Spike	F	0 - 30
1926042	Fipronil	6.19	Spike	P	0 - 30
1926042	Fipronil Sulfide	7.90	Spike	P	0 - 30
1926042	Fipronil Sulfone	2.93	Spike	P	0 - 30
1926042	Fonofos	10.7	Spike	P	0 - 30
1926042	Hexazinone	3.49	Spike	P	0 - 30
1926042	Malathion	5.75	Spike	P	0 - 30
1926042	Metalaxyl	4.87	Spike	P	0 - 30
1926042	Metolachlor	17.3	Spike	P	0 - 30
1926042	Metribuzin	4.42	Spike	P	0 - 30
1926042	Mevinphos	7.24	Spike	P	0 - 30
1926042	Molinate	21.2	Spike	P	0 - 30
1926042	Norflurazon	3.83	Spike	P	0 - 30
1926042	Parathion Ethyl	8.82	Spike	P	0 - 30
1926042	Parathion Methyl	21.9	Spike	P	0 - 30
1926042	Pendimethalin	19.1	Spike	P	0 - 30
1926042	Phorate	1.03	Spike	P	0 - 30
1926042	Prometon	10.7	Spike	P	0 - 30
1926042	Prometryn	2.71	Spike	P	0 - 30
1926042	Simazine	1.88	Spike	P	0 - 30
1926042	Terbufos	8.64	Spike	P	0 - 30
1926042	Terbutylazine	3.45	Spike	P	0 - 30
LFB	Acetochlor	16.4	LCS	P	0 - 30
LFB	Alachlor	15.0	LCS	P	0 - 30
LFB	Ametryn	8.48	LCS	P	0 - 30
LFB	Atrazine	14.4	LCS	P	0 - 30
LFB	Atrazine Desethyl	27.1	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P331105

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Azinphos Methyl	2.74	LCS	P	0 - 30
LFB	Bromacil	1.23	LCS	P	0 - 30
LFB	Butylate	25.6	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	5.74	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	1.55	LCS	P	0 - 30
LFB	Cyanazine	21.6	LCS	P	0 - 30
LFB	Demeton	6.66	LCS	P	0 - 30
LFB	Diazinon	18.5	LCS	P	0 - 30
LFB	Disulfoton	5.63	LCS	P	0 - 30
LFB	EPTC	32.6	LCS	F	0 - 30
LFB	Ethion	1.47	LCS	P	0 - 30
LFB	Ethoprop	8.48	LCS	P	0 - 30
LFB	Fenamiphos	2.86	LCS	P	0 - 30
LFB	Fipronil	4.46	LCS	P	0 - 30
LFB	Fipronil Sulfide	5.89	LCS	P	0 - 30
LFB	Fipronil Sulfone	3.47	LCS	P	0 - 30
LFB	Fonofos	0.481	LCS	P	0 - 30
LFB	Hexazinone	8.51	LCS	P	0 - 30
LFB	Malathion	6.29	LCS	P	0 - 30
LFB	Metalaxyl	19.0	LCS	P	0 - 30
LFB	Metolachlor	21.1	LCS	P	0 - 30
LFB	Metribuzin	54.9	LCS	F	0 - 30
LFB	Mevinphos	6.58	LCS	P	0 - 30
LFB	Molinate	37.5	LCS	F	0 - 30
LFB	Norflurazon	26.5	LCS	P	0 - 30
LFB	Parathion Ethyl	3.93	LCS	P	0 - 30
LFB	Parathion Methyl	6.08	LCS	P	0 - 30
LFB	Pendimethalin	9.34	LCS	P	0 - 30
LFB	Phorate	3.17	LCS	P	0 - 30
LFB	Prometon	17.6	LCS	P	0 - 30
LFB	Prometryn	14.0	LCS	P	0 - 30
LFB	Simazine	17.4	LCS	P	0 - 30
LFB	Terbufos	2.31	LCS	P	0 - 30
LFB	Terbutylazine	9.07	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P331295

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927200	Aldrin	5.91	Spike	P	0 - 30
1927200	Alpha-BHC	3.78	Spike	P	0 - 30
1927200	Alpha-Chlordane	11.2	Spike	P	0 - 30
1927200	Beta-BHC	36.9	Spike	F	0 - 30
1927200	Carbophenothion	1.11	Spike	P	0 - 30
1927200	Chlorothalonil	14.4	Spike	P	0 - 30
1927200	Cypermethrin	14.7	Spike	P	0 - 30
1927200	DDD-p,p'	14.8	Spike	P	0 - 30
1927200	DDE-p,p'	14.3	Spike	P	0 - 30
1927200	DDT-p,p'	2.76	Spike	P	0 - 30
1927200	Delta-BHC	28.0	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P331295

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927200	Dicofol	51.9	Spike	F	0 - 30
1927200	Dieldrin	12.8	Spike	P	0 - 30
1927200	Endosulfan I	13.5	Spike	P	0 - 30
1927200	Endosulfan II	13.6	Spike	P	0 - 30
1927200	Endosulfan Sulfate	23.4	Spike	P	0 - 30
1927200	Endrin	0.852	Spike	P	0 - 30
1927200	Endrin Aldehyde	33.7	Spike	F	0 - 30
1927200	Endrin Ketone	20.8	Spike	P	0 - 30
1927200	Gamma-BHC	17.3	Spike	P	0 - 30
1927200	Gamma-Chlordane	10.7	Spike	P	0 - 30
1927200	Heptachlor	4.39	Spike	P	0 - 30
1927200	Heptachlor Epoxide	5.27	Spike	P	0 - 30
1927200	Methoxychlor	5.84	Spike	P	0 - 30
1927200	Mirex	5.03	Spike	P	0 - 30
1927200	Permethrin	4.78	Spike	P	0 - 30
1927200	Trifluralin	0.312	Spike	P	0 - 30
LFB	Aldrin	11.4	LCS	P	0 - 30
LFB	Alpha-BHC	13.3	LCS	P	0 - 30
LFB	Alpha-Chlordane	1.94	LCS	P	0 - 30
LFB	Beta-BHC	23.0	LCS	P	0 - 30
LFB	Carbophenothion	11.0	LCS	P	0 - 30
LFB	Chlorothalonil	28.0	LCS	P	0 - 30
LFB	Cypermethrin	3.63	LCS	P	0 - 30
LFB	DDD-p,p'	12.7	LCS	P	0 - 30
LFB	DDE-p,p'	13.5	LCS	P	0 - 30
LFB	DDT-p,p'	5.00	LCS	P	0 - 30
LFB	Delta-BHC	8.66	LCS	P	0 - 30
LFB	Dicofol	8.99	LCS	P	0 - 30
LFB	Dieldrin	11.3	LCS	P	0 - 30
LFB	Endosulfan I	2.57	LCS	P	0 - 30
LFB	Endosulfan II	11.4	LCS	P	0 - 30
LFB	Endosulfan Sulfate	9.63	LCS	P	0 - 30
LFB	Endrin	10.0	LCS	P	0 - 30
LFB	Endrin Aldehyde	10.2	LCS	P	0 - 30
LFB	Endrin Ketone	10.7	LCS	P	0 - 30
LFB	Gamma-BHC	27.0	LCS	P	0 - 30
LFB	Gamma-Chlordane	5.61	LCS	P	0 - 30
LFB	Heptachlor	17.3	LCS	P	0 - 30
LFB	Heptachlor Epoxide	4.47	LCS	P	0 - 30
LFB	Methoxychlor	3.50	LCS	P	0 - 30
LFB	Mirex	5.17	LCS	P	0 - 30
LFB	Permethrin	5.68	LCS	P	0 - 30
LFB	Trifluralin	8.75	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P331295

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927270	Chlordane	1.97	Spike	P	0 - 30
1927270	Toxaphene	6.75	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P331295

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Chlordane	3.49	LCS	P	0 - 30
LFB	Toxaphene	8.82	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P331186

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927171	Sucralose	39.6	Spike	F	0 - 30

Reference Method: EPA 8321B
Batch ID: P331308

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927171	Glyphosate	35.8	Spike	F	0 - 30

Reference Method: EPA 8321B
Batch ID: P331322

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927875	Pyraclostrobin	0.104	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P331213

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927261	Color (true)	0.198	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P331537

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927007	Total Alkalinity	0.221	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P331549

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927029	TDS	4.02	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P331550

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927116	TDS	6.90	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 4500 F-C-97
 Batch ID: P331540

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927007	Fluoride	0.0	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
 Batch ID: P331763

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927449	Organic Carbon	0.252	Spike	P	0 - 20

Reference Method: USGS O-2060-01
 Batch ID: P331187

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927171	2,4-D	3.87	Spike	P	0 - 30
1927171	Acetaminophen	2.42	Spike	P	0 - 30
1927171	Bentazon	5.87	Spike	P	0 - 30
1927171	Carbamazepine	1.73	Spike	P	0 - 30
1927171	Diuron	0.775	Spike	P	0 - 30
1927171	Fenuron	2.22	Spike	P	0 - 30
1927171	Fluridone	0.257	Spike	P	0 - 30
1927171	Imidacloprid	0.0876	Spike	P	0 - 30
1927171	Linuron	1.86	Spike	P	0 - 30
1927171	MCPP	0.743	Spike	P	0 - 30
1927171	Primidone	3.77	Spike	P	0 - 30
1927171	Triclopyr	4.03	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: 1927171
 Field Sample ID: G1NE0631 08312017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	61.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	61.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	85.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	85.9	P	30 - 160
EPA 8321B	Diuron-d6	92.6	P	30 - 160
EPA 8321B	Diuron-d6	69.5	P	30 - 160
EPA 8321B	Diuron-d6	92.6	P	30 - 160
EPA 8321B	Diuron-d6	69.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	124	P	40 - 160
EPA 8321B	Primidone-d5	89.5	P	30 - 160
EPA 8321B	Primidone-d5	89.5	P	30 - 160
EPA 8321B	Sucralose-d6	78.3	P	40 - 160
EPA 8321B	Sucralose-d6	78.3	P	40 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 1927171
Field Sample ID: G1NE0631 08312017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
USGS O-2060-01	2,4-D-d3	57.5	P	40 - 160
USGS O-2060-01	Acetaminophen-d4	61.1	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	85.9	P	30 - 160
USGS O-2060-01	Diuron-d6	92.6	P	30 - 160
USGS O-2060-01	Diuron-d6	69.5	P	30 - 160
USGS O-2060-01	Primidone-d5	89.5	P	30 - 160
USGS O-2060-01	Sucralose-d6	78.3	P	40 - 160

Lab Sample ID: 1927172
Field Sample ID: G1NE0557 08312017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	76.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	73.6	P	30 - 160
EPA 8321B	Diuron-d6	57.3	P	30 - 160
EPA 8321B	Primidone-d5	77.6	P	30 - 160
EPA 8321B	Sucralose-d6	55.7	P	40 - 160
USGS O-2060-01	2,4-D-d3	57.9	P	40 - 160
USGS O-2060-01	Acetaminophen-d4	76.5	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	73.6	P	30 - 160
USGS O-2060-01	Diuron-d6	57.3	P	30 - 160
USGS O-2060-01	Primidone-d5	77.6	P	30 - 160
USGS O-2060-01	Sucralose-d6	55.7	P	40 - 160

Lab Sample ID: 1927173
Field Sample ID: G1NE0591 08312017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	86.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	60.2	P	30 - 160
EPA 8321B	Diuron-d6	50.2	P	30 - 160
EPA 8321B	Primidone-d5	67.7	P	30 - 160
EPA 8321B	Sucralose-d6	42.1	P	40 - 160
USGS O-2060-01	2,4-D-d3	56.2	P	40 - 160
USGS O-2060-01	Acetaminophen-d4	86.2	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	60.2	P	30 - 160
USGS O-2060-01	Diuron-d6	50.2	P	30 - 160
USGS O-2060-01	Primidone-d5	67.7	P	30 - 160
USGS O-2060-01	Sucralose-d6	42.1	P	40 - 160

Lab Sample ID: 1927174
Field Sample ID: G1NE0018 08312017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	65.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	72.6	P	30 - 160
EPA 8321B	Diuron-d6	60.9	P	30 - 160
EPA 8321B	Primidone-d5	89.3	P	30 - 160
EPA 8321B	Sucralose-d6	49.2	P	40 - 160
USGS O-2060-01	2,4-D-d3	57.7	P	40 - 160
USGS O-2060-01	Acetaminophen-d4	65.3	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	72.6	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 1927174
Field Sample ID: G1NE0018 08312017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
USGS O-2060-01	Diuron-d6	60.9	P	30 - 160
USGS O-2060-01	Primidone-d5	89.3	P	30 - 160
USGS O-2060-01	Sucralose-d6	49.2	P	40 - 160

Lab Sample ID: 1927175
Field Sample ID: G1NE0631 08312017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	85.0	P	39 - 118
EPA 8270D	Tetrachloro-m-xylene	58.5	P	32 - 103
EPA 8276	Decachlorobiphenyl	86.6	P	31 - 100

Lab Sample ID: 1927176
Field Sample ID: G1NE0631 08312017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	78.8	P	53 - 135
EPA 8270D	Simazine-d10	97.4	P	71 - 126

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A78758
Included Lab Sample IDs: 1927113, 1927114, 1927115, 1927118

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

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A78760
Included Lab Sample IDs: 1927107, 1927108, 1927109, 1927116

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

Reference Method: SM 2120 B
Run ID: A78761
Included Lab Sample IDs: 1927107, 1927108, 1927109, 1927116

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	99.9	P/P	85 - 115
Color (true)	99.9	102	P/P	85 - 115

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A78790
Included Lab Sample IDs: 1927110, 1927111, 1927112, 1927117

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A78790

Included Lab Sample IDs: 1927110, 1927111, 1927112, 1927117

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.5	95.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A78799

Included Lab Sample IDs: 1927110, 1927111, 1927112, 1927117

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	99.2	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A78813

Included Lab Sample IDs: 1927171

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Glyphosate	75.8	88.2	P/P	70 - 160

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A78818

Included Lab Sample IDs: 1927183

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	102	102	P/P	90 - 110
Cadmium	103	103	P/P	90 - 110
Chromium	102	99.9	P/P	90 - 110
Copper	101	99.6	P/P	90 - 110
Lead	102	102	P/P	90 - 110
Nickel	100	99.3	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A78843

Included Lab Sample IDs: 1927110, 1927117

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A78858

Included Lab Sample IDs: 1927110, 1927111, 1927112, 1927117

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.5	98.4	P/P	90 - 110
Ammonia-N	99.3	99.8	P/P	90 - 110
Ammonia-N	99.8	99.6	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A78859

Included Lab Sample IDs: 1927171, 1927172, 1927173, 1927174

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	103	97.4	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A78859

Included Lab Sample IDs: 1927171, 1927172, 1927173, 1927174

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	97.4	97.1	P/P	60 - 150

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A78866

Included Lab Sample IDs: 1927183

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	101	P/P	90 - 110
Iron	100	100	P/P	90 - 110
Magnesium	100	100	P/P	90 - 110
Potassium	100	100	P/P	90 - 110
Sodium	101	101	P/P	90 - 110
Zinc	102	101	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A78874

Included Lab Sample IDs: 1927107, 1927108, 1927109, 1927116

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	103	P/P	90 - 110
Total Alkalinity	103	101	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A78874

Included Lab Sample IDs: 1927107, 1927108, 1927109, 1927116

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	98.5	P/P	90 - 110
Fluoride	98.5	99.5	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A78913

Included Lab Sample IDs: 1927183

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Silver	94.8	94.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A78933

Included Lab Sample IDs: 1927111, 1927112

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A78948

Included Lab Sample IDs: 1927107, 1927108, 1927109, 1927116

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A78948

Included Lab Sample IDs: 1927107, 1927108, 1927109, 1927116

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfate	96.5	98.1	P/P	90 - 110
Sulfate	98.1	98.2	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A78957

Included Lab Sample IDs: 1927171

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraclostrobin	102	104	P/P	60 - 150

Reference Method: EPA 8270D

Run ID: A78963

Included Lab Sample IDs: 1927176

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
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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D
 Run ID: A78963
 Included Lab Sample IDs: 1927176

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Terbufos	96.3		P	80 - 120
Terbutylazine	93.2		P	80 - 120

Reference Method: EPA 8270D
 Run ID: A78964
 Included Lab Sample IDs: 1927176

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	95.7		P	80 - 120

Reference Method: SM 5310 B-00
 Run ID: A78968
 Included Lab Sample IDs: 1927110, 1927111, 1927112, 1927117

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.4	95.2	P/P	90 - 110
Organic Carbon	94.8	94.4	P/P	90 - 110

Reference Method: EPA 8270D
 Run ID: A78977
 Included Lab Sample IDs: 1927175

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	91.7		P	80 - 120
Alpha-BHC	102		P	80 - 120
Alpha-Chlordane	91.1		P	80 - 120
Beta-BHC	112		P	80 - 120
Carbophenothion	115		P	80 - 120
Chlorothalonil	136*		F	80 - 120
Cypermethrin	101		P	80 - 120
DDD-p,p'	116		P	80 - 120
DDE-p,p'	92.5		P	80 - 120
DDT-p,p'	108		P	80 - 120
Delta-BHC	116		P	80 - 120
Dicofol	119		P	80 - 120
Dieldrin	109		P	80 - 120
Endosulfan I	87.8		P	80 - 120
Endosulfan II	105		P	80 - 120
Endosulfan Sulfate	103		P	80 - 120
Endrin	105		P	80 - 120
Endrin Aldehyde	106		P	80 - 120
Endrin Ketone	100		P	80 - 120
Gamma-BHC	107		P	80 - 120
Gamma-Chlordane	95.0		P	80 - 120
Heptachlor	95.4		P	80 - 120
Heptachlor Epoxide	99.6		P	80 - 120
Methoxychlor	105		P	80 - 120
Mirex	101		P	80 - 120
Permethrin	99.0		P	80 - 120
Trifluralin	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8276

Run ID: A78984

Included Lab Sample IDs: 1927175

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	105		P	80 - 120
Toxaphene	115		P	80 - 120

Reference Method: USGS O-2060-01

Run ID: A79030

Included Lab Sample IDs: 1927171, 1927172, 1927173, 1927174

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	103	92.8	P/P	50 - 150
2,4-D	91.8	92.3	P/P	50 - 150
Acetaminophen	104	103	P/P	60 - 150
Acetaminophen	105	105	P/P	60 - 150
Bentazon	103	102	P/P	50 - 150
Bentazon	96.8	100	P/P	50 - 150
Carbamazepine	117	116	P/P	60 - 150
Carbamazepine	122	121	P/P	60 - 150
Diuron	103	98.8	P/P	60 - 150
Diuron	105	105	P/P	60 - 150
Fenuron	101	100	P/P	60 - 150
Fenuron	99.7	101	P/P	60 - 150
Fluridone	102	102	P/P	60 - 160
Fluridone	106	103	P/P	60 - 160
Imidacloprid	96.9	95.1	P/P	60 - 150
Imidacloprid	99.5	97.2	P/P	60 - 150
Linuron	100	91.6	P/P	60 - 150
Linuron	101	103	P/P	60 - 150
MCPP	88.5	91.6	P/P	50 - 150
MCPP	96.6	93.4	P/P	50 - 150
Primidone	94.6	97.7	P/P	60 - 150
Primidone	95.9	99.1	P/P	60 - 150
Triclopyr	92.6	101	P/P	50 - 150
Triclopyr	96.1	105	P/P	50 - 150

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision SMP	MS
					LCS		
EPA 180.1 Rev. 2.0	Turbidity					0.0	
EPA 200.7 Rev. 4.4	Calcium	108	88.5	101	102		0.704
	Iron	107	103	103	102		0.508
	Magnesium	107	101	102	102		0.343
	Potassium	99.6	100	99.9			0.464
	Sodium	104	101				1.36
	Zinc	101	98.5	105	105		0.0361
EPA 200.8 Rev. 5.4	Arsenic	102	105	109	108		0.698

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			LCS	Precision	MS
								SMP	
EPA 200.8 Rev. 5.4	Cadmium	101		104	104	103			0.359
	Chromium	98.9		97.4	94.8	94.6			0.230
	Copper	95.8		95.4	97.9	97.2			0.720
	Lead	99.9		100	103	102			0.249
	Nickel	98.3		97.3	98.6	98.5			0.0562
	Silver	101		102	101	101			0.0155
EPA 300.0 Rev. 2.1	Chloride	96.1		95.8	95.8			1.79	
	Sulfate	95.1		94.6	94.7				
EPA 350.1 Rev. 2.0	Ammonia-N	95.5		99.9	101				0.569
	Ammonia-N	100		102	102				0.344
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102		101	101				0.252
	Kjeldahl Nitrogen	100		99.9	99.5				0.303
EPA 353.2 Rev. 2.0	NO2NO3-N	103		99.7	97.2				2.03
EPA 365.1 Rev. 2.0	Total-P	94.0		94.3	93.5				0.670
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.7		95.7	96.1				0.385
EPA 8270D	Acetochlor	85.7	101	68.9	66.9		16.4		2.88
	Alachlor	85.3	99.1	73.5	73.8		15.0		0.404
	Aldrin	16.3	18.3	30.8	29.0		11.4		5.91
	Alpha-BHC	77.8	68.1	88.2	85.0		13.3		3.78
	Alpha-Chlordane	80.1	78.6	111	90.8		1.94		11.2
	Ametryn	84.0	91.5	75.1	73.1		8.48		2.71
	Atrazine	81.0	93.6	88.4	90.0		14.4		1.64
	Atrazine Desethyl	95.9	73.0	78.6	77.9		27.1		0.839
	Azinphos Methyl	120	124	126	110		2.74		14.1
	Beta-BHC	93.3	118	93.5	136		23.0		36.9
	Bromacil	74.4	75.4	58.0	66.3		1.23		6.92
	Butylate	56.4	73.0	44.5	40.6		25.6		9.27
	Carbophenothion	59.8	66.7	128	126		11.0		1.11
	Chlorothalonil	85.3	64.3	121	140		28.0		14.4
	Chlorpyrifos Ethyl	83.7	88.6	65.7	70.0		5.74		6.37
	Chlorpyrifos Methyl	90.2	88.8	78.6	75.7		1.55		3.73
	Cyanazine	133	107	141	150		21.6		6.42
	Cypermethrin	92.4	89.1	95.3	110		3.63		14.7
	DDD-p,p'	95.0	108	98.4	114		12.7		14.8
	DDE-p,p'	80.1	70.0	97.3	84.4		13.5		14.3
	DDT-p,p'	84.6	88.9	91.5	89.0		5.00		2.76
	Delta-BHC	105	115	123	163		8.66		28.0
	Demeton	90.8	97.1	89.7	91.5		6.66		1.98
	Diazinon	84.1	101	89.2	77.3		18.5		14.2
	Dicofol	73.1	80.0	29.6	50.4		8.99		51.9
	Dieldrin	93.7	83.7	119	105		11.3		12.8
	Disulfoton	96.3	102	104	96.4		5.63		7.85
	Endosulfan I	76.9	78.9	100	87.4		2.57		13.5
	Endosulfan II	111	99.4	123	141		11.4		13.6
	Endosulfan Sulfate	89.0	98.0	89.1	113		9.63		23.4
	Endrin	104	94.1	107	108		10.0		0.852
	Endrin Aldehyde	94.0	84.9	53.4	75.0		10.2		33.7
	Endrin Ketone	93.0	83.5	78.6	96.9		10.7		20.8
	EPTC	47.8	66.4	38.8	29.6		32.6		27.0
	Ethion	80.6	81.8	91.8	75.4		1.47		19.6
	Ethoprop	77.8	84.7	83.8	75.7		8.48		10.2
	Fenamiphos	90.7	93.3	103	56.6		2.86		58.6
	Fipronil	86.4	90.4	86.8	81.5		4.46		6.19
	Fipronil Sulfide	81.9	77.2	76.7	70.9		5.89		7.90

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Fipronil Sulfone	70.7	73.2	62.8	64.7	3.47	2.93
	Fonofos	85.5	85.1	82.6	74.2	0.481	10.7
	Gamma-BHC	72.1	94.5	86.6	103	27.0	17.3
	Gamma-Chlordane	85.7	81.0	109	92.7	5.61	10.7
	Heptachlor	62.1	52.2	74.0	70.8	17.3	4.39
	Heptachlor Epoxide	82.5	86.3			4.47	5.27
	Hexazinone	86.4	94.1	89.6	85.7	8.51	3.49
	Malathion	89.8	95.6	87.0	82.1	6.29	5.75
	Metalaxyl	78.5	95.0	74.2	78.3	19.0	4.87
	Methoxychlor	92.5	95.8	98.9	93.3	3.50	5.84
	Metolachlor	78.1	96.5	57.0	68.4	21.1	17.3
	Metribuzin	196	111	249	260	54.9	4.42
	Mevinphos	79.1	84.5	87.7	81.5	6.58	7.24
	Mirex	72.6	68.9	82.7	78.7	5.17	5.03
	Molinate	53.1	77.6	50.5	40.8	37.5	21.2
	Norflurazon	71.5	93.3	87.9	84.6	26.5	3.83
	Parathion Ethyl	84.4	87.7	80.0	73.2	3.93	8.82
	Parathion Methyl	101	94.6	107	86.2	6.08	21.9
	Pendimethalin	76.6	84.1	81.5	67.3	9.34	19.1
	Permethrin	85.3	80.6	91.1	95.5	5.68	4.78
	Phorate	86.3	83.6	73.3	72.6	3.17	1.03
	Prometon	81.9	97.7	77.1	69.3	17.6	10.7
	Prometryn	81.9	94.3	77.6	79.7	14.0	2.71
	Simazine	95.6	114	107	109	17.4	1.88
	Terbufos	87.7	89.7	90.6	83.1	2.31	8.64
	Terbuthylazine	83.9	91.9	76.0	73.5	9.07	3.45
	Trifluralin	104	113	159	160	8.75	0.312
EPA 8276	Chlordane	116	121	113	111	3.49	1.97
	Toxaphene	136	148	136	127	8.82	6.75
EPA 8321B	Glyphosate	86.7		96.6	141		35.8
	Pyraclostrobin	119		96.0	96.1		0.104
	Sucralose	96.6		34.7	9.82		39.6
SM 2120 B	Color (true)					0.198	
SM 2320 B-97	Total Alkalinity	103				0.221	
SM 2540 C-97	TDS					4.02	
	TDS					6.90	
SM 4500 F-C-97	Fluoride	99.3		98.3	98.3		0.0
SM 5310 B-00	Organic Carbon	95.5		100			0.252
USGS O-2060-01	2,4-D	53.0		58.1	60.9		3.87
	Acetaminophen	134		64.5	63.0		2.42
	Bentazon	41.4		30.9	29.1		5.87
	Carbamazepine	124		100	98.5		1.73
	Diuron	103		80.4	79.7		0.775
	Fenuron	114		89.9	91.9		2.22
	Fluridone	68.5		54.5	54.6		0.257
	Imidacloprid	94.9		228	228		0.0876
	Linuron	86.9		95.7	94.0		1.86
	MCPP	52.9		51.0	51.3		0.743
	Primidone	111		111	107		3.77
	Triclopyr	54.0		48.6	50.6		4.03

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1927107, 1927108, 1927109, 1927116
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1927183
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1927183
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1927107, 1927108, 1927109, 1927116
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1927107, 1927108, 1927109, 1927116
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1927110, 1927111, 1927112, 1927117
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1927110, 1927111, 1927112, 1927117
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1927110, 1927111, 1927112, 1927117
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1927110, 1927111, 1927112, 1927117
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1927113, 1927114, 1927115, 1927118
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	1927175
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1927176
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	1927175
EPA 8321B / E31780	Analysis of sucralose in water matrices by HPLC/MS/MS	1927171, 1927172, 1927173, 1927174
EPA 8321B / E31780	Glyphosate in water matrices by HPLC/MS/MS	1927171
EPA 8321B / E31780	Pyraclostrobin in water matrices by HPLC/MS/MS	1927171
SM 2120 B / E31780	True Color measured at 450 nm	1927107, 1927108, 1927109, 1927116
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1927107, 1927108, 1927109, 1927116
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1927107, 1927108, 1927109, 1927116
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1927107, 1927108, 1927109, 1927116
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1927107, 1927108, 1927109, 1927116
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1927110, 1927111, 1927112, 1927117
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1927171, 1927172, 1927173, 1927174
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1927171, 1927172, 1927173, 1927174

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	09/01/2017			09/01/2017 16:50	Tanya Welborn	1927107, 1927108, 1927109, 1927116
EPA 200.7 Rev. 4.4	09/01/2017	09/05/2017	Elliott D. Healy	09/07/2017	Betina Topolski	1927183
EPA 200.8 Rev. 5.4	09/01/2017	09/05/2017	Elliott D. Healy	09/07/2017	Nadine Brooks	1927183
	09/01/2017	09/05/2017	Elliott D. Healy	09/13/2017	Nadine Brooks	1927183
EPA 300.0 Rev. 2.1	09/01/2017			09/15/2017	Julia Storbeck	1927107, 1927108, 1927109, 1927116
EPA 350.1 Rev. 2.0	09/01/2017			09/06/2017	Sofia Elnemr	1927110, 1927111, 1927112, 1927117
EPA 351.2 Rev. 2.0	09/01/2017	09/06/2017	Adrian Shelby	09/07/2017	Joseph Suarez	1927110, 1927117
	09/01/2017	09/13/2017	Adrian Shelby	09/15/2017	Joseph Suarez	1927111, 1927112
EPA 353.2 Rev. 2.0	09/01/2017			09/06/2017	Beverly Y. Sanders	1927110, 1927111, 1927112, 1927117
EPA 365.1 Rev. 2.0	09/01/2017	09/05/2017	Sima Feizi	09/06/2017	Lipi Saha	1927110, 1927111, 1927112, 1927117
EPA 365.1 Rev. 2.0 dissolved	09/01/2017			09/01/2017 14:54	Megan Treadwell	1927113
	09/01/2017			09/01/2017 14:59	Megan Treadwell	1927114
	09/01/2017			09/01/2017 15:00	Megan Treadwell	1927115
	09/01/2017			09/01/2017 15:01	Megan Treadwell	1927118
EPA 8270D	09/01/2017	09/01/2017	Fe-Val Siddell	09/05/2017	Irina Carbone	1927176
	09/01/2017	09/01/2017	Fe-Val Siddell	09/07/2017	Irina Carbone	1927176
	09/01/2017	09/06/2017	John Kaba	09/14/2017	Marek Topolski	1927175
EPA 8276	09/01/2017	09/06/2017	John Kaba	09/14/2017	Vandana T. Nagar	1927175
EPA 8321B	09/01/2017	09/06/2017	Hoor Shaik	09/07/2017	Julie Michelle Frank	1927171, 1927172, 1927173, 1927174
	09/01/2017	09/06/2017	Julie Michelle Frank	09/06/2017	Julie Michelle Frank	1927171
	09/01/2017	09/07/2017	Hoor Shaik	09/14/2017	Julie Michelle Frank	1927171
SM 2120 B	09/01/2017			09/01/2017 16:00	Tanya Welborn	1927116
	09/01/2017			09/01/2017 16:08	Tanya Welborn	1927107
	09/01/2017			09/01/2017 16:09	Tanya Welborn	1927108, 1927109
SM 2320 B-97	09/01/2017			09/08/2017	Dale L. Simmons	1927107, 1927108, 1927109, 1927116
SM 2540 C-97	09/01/2017			09/06/2017	Yijie Li	1927107, 1927108, 1927109, 1927116
SM 2540 D-97	09/01/2017			09/06/2017	Yijie Li	1927107, 1927108, 1927109, 1927116
SM 4500 F-C-97	09/01/2017			09/08/2017	Dale L. Simmons	1927107, 1927108, 1927109, 1927116
SM 5310 B-00	09/01/2017			09/15/2017	Sofia Elnemr	1927110, 1927111, 1927117
	09/01/2017			09/16/2017	Sofia Elnemr	1927112
USGS O-2060-01	09/01/2017	09/06/2017	Hoor Shaik	09/19/2017	Julie Michelle Frank	1927171, 1927172, 1927173, 1927174