

Chemical Analysis Report

SE-DIST-2017-11-21-01

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

Event Description: **SMP-G4 Broward Red**

Request ID: **RQ-2017-11-20-15**

Customer: **SE-DIST**

Project ID: **SMP**

Send Reports to:

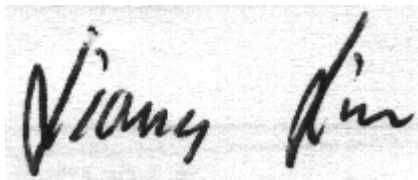
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
Attn: Matthew Sewell

For additional information please contact

Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Liang Lin, Environmental Administrator

Date Certified: 14-DEC-2017 10:13

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

Case Narrative

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

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

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

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

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

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

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

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

Precision is reported as relative percent difference unless otherwise noted.

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

QC Codes used in this report may include:

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

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

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

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

Sample Location: Flamingo Rd, and Stirling Rd

Collection Date/Time: 11/20/2017 12:00

Field ID: 28030548

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1947901	EPA 180.1 Rev. 2.0	Turbidity	1.0		NTU	P335794	
	EPA 300.0 Rev. 2.1	Chloride	63		mg Cl/L	P336017	
		Sulfate	4.8		mg SO4/L	P336019	
	SM 2120 B	Color (true)	50		PCU	P335738	
	SM 2320 B-97	Total Alkalinity	244		mg CaCO3/L	P336241	
	SM 2540 C-97	TDS	397		mg/L	P336346	
	SM 2540 D-97	TSS	2	U	mg/L	P336296	
	SM 4500 F-C-97	Fluoride	0.23		mg F/L	P336330	
1947902	EPA 350.1 Rev. 2.0	Ammonia-N	0.047		mg N/L	P336336	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P336178	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.12		mg N/L	P336038	
	EPA 365.1 Rev. 2.0	Total-P	0.017		mg P/L	P336067	
	SM 5310 B-00	Organic Carbon	16		mg C/L	P336195	
1947903	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P335744	
1947931	EPA 8321B	Sucralose**	0.17		ug/L	P335805	
	USGS O-2060-01	2,4-D	0.030	Q	ug/L	P336263	
		Diuron	0.0018	I	ug/L	P335693	
		Fenuron	0.0080	U	ug/L	P335693	
		Imidacloprid	0.022		ug/L	P335693	MS
		Bentazon	0.021	Q	ug/L	P336263	
		Linuron	0.0040	U	ug/L	P335693	
		Acetaminophen**	0.0080	U	ug/L	P335693	
		MCP	0.0020	UQ	ug/L	P336263	
		Carbamazepine**	4.0E-04	U	ug/L	P335693	
		Triclopyr**	0.0040	UQ	ug/L	P336263	
		Primidone**	0.0040	U	ug/L	P335693	
		Fluridone**	0.059		ug/L	P335693	

Ref. Method and Comment:

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

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

Sample Location: North New River @ University

Collection Date/Time: 11/20/2017 13:00

Field ID: G4SENNR3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1947895	EPA 180.1 Rev. 2.0	Turbidity	1.3		NTU	P335794	
	EPA 300.0 Rev. 2.1	Chloride	63		mg Cl/L	P336017	
		Sulfate	14		mg SO4/L	P336019	
	SM 2120 B	Color (true)	61		PCU	P335738	
	SM 2320 B-97	Total Alkalinity	178		mg CaCO3/L	P336241	
	SM 2540 C-97	TDS	342	A	mg/L	P336346	
	SM 2540 D-97	TSS	3	IA	mg/L	P336296	
	SM 4500 F-C-97	Fluoride	0.38		mg F/L	P336330	
1947896	EPA 350.1 Rev. 2.0	Ammonia-N	0.21		mg N/L	P336336	

Field ID: G4SENNR3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1947896	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P336178	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.024		mg N/L	P336038	
	EPA 365.1 Rev. 2.0	Total-P	0.008		mg P/L	P336067	
	SM 5310 B-00	Organic Carbon	20		mg C/L	P336195	
1947897	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P335744	
1947929	EPA 8321B	Glyphosate**	0.10	U	ug/L	P335737	
		Pyraclostrobin**	0.0020	U	ug/L	P335811	
		Sucralose**	0.022	I	ug/L	P335805	
	USGS O-2060-01	2,4-D	0.0020	UQ	ug/L	P336263	
		Diuron	0.0077		ug/L	P335693	
		Fenuron	0.0080	U	ug/L	P335693	
		Imidacloprid	0.0063		ug/L	P335693	MS
		Bentazon	0.0028	IQ	ug/L	P336263	
		Linuron	0.0040	U	ug/L	P335693	
		Acetaminophen**	0.0080	U	ug/L	P335693	
		MCPD	0.0020	UQ	ug/L	P336263	
		Carbamazepine**	4.0E-04	U	ug/L	P335693	
		Triclopyr**	0.0040	UQ	ug/L	P336263	
		Primidone**	0.0040	U	ug/L	P335693	
		Fluridone**	0.0012	I	ug/L	P335693	
	EPA 8270D	Aldrin	4.4	U	ng/L	P335864	
		Alpha-BHC	2.2	U	ng/L	P335864	
		Beta-BHC	4.4	UJ	ng/L	P335864	RPD
		Delta-BHC	4.4	U	ng/L	P335864	
		Gamma-BHC	4.4	U	ng/L	P335864	
		Carbophenothion	4.4	U	ng/L	P335864	
		Chlorothalonil	2.2	U	ng/L	P335864	
		Cypermethrin	22	U	ng/L	P335864	
		DDD-p,p'	15		ng/L	P335864	
		DDE-p,p'	3.3	U	ng/L	P335864	
		DDT-p,p'	4.1	IJ	ng/L	P335864	LCS, MS
		Dieldrin	4.4	U	ng/L	P335864	
		Endosulfan I	4.4	U	ng/L	P335864	
		Endosulfan II	4.4	U	ng/L	P335864	
		Endosulfan Sulfate	2.2	U	ng/L	P335864	
		Endrin	2.2	U	ng/L	P335864	
		Endrin Aldehyde	2.2	U	ng/L	P335864	
		Heptachlor	1.7	U	ng/L	P335864	
		Heptachlor Epoxide	2.2	U	ng/L	P335864	
		Methoxychlor	4.4	U	ng/L	P335864	
		Mirex	2.2	U	ng/L	P335864	
		Permethrin	11	U	ng/L	P335864	
		Trifluralin	1.1	U	ng/L	P335864	
		Alpha-Chlordane	1.1	U	ng/L	P335864	

Field ID: G4SENNR3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1947935	EPA 8270D	Gamma-Chlordane	1.1	U	ng/L	P335864	
		Endrin Ketone	2.2	U	ng/L	P335864	
		Dicofol	33	U	ng/L	P335864	MS
		Chlordane**	2.8	U	ng/L	P335864	
		Toxaphene**	200	J	ng/L	P335864	MS
1947936	EPA 8270D	Alachlor	0.26	U	ng/L	P335931	
		Ametryn	3.6	J	ng/L	P335931	MS
		Atrazine	6.7	J	ng/L	P335931	MS
		Atrazine Desethyl	2.3	IJ	ng/L	P335931	MS
		Azinphos Methyl	2.3	U	ng/L	P335931	
		Bromacil	0.51	U	ng/L	P335931	
		Butylate	0.41	U	ng/L	P335931	
		Chlorpyrifos Ethyl	0.26	U	ng/L	P335931	
		Chlorpyrifos Methyl	0.10	U	ng/L	P335931	
		Demeton	2.1	U	ng/L	P335931	
		Diazinon	0.13	U	ng/L	P335931	
		Disulfoton	0.51	U	ng/L	P335931	
		EPTC	1.3	U	ng/L	P335931	
		Ethion	0.15	U	ng/L	P335931	
		Ethoprop	0.10	UJ	ng/L	P335931	MS
		Fenamiphos	0.26	U	ng/L	P335931	
		Fipronil	0.26	U	ng/L	P335931	
		Fipronil Sulfide	0.15	U	ng/L	P335931	
		Fipronil Sulfone	0.15	U	ng/L	P335931	
		Hexazinone	1.9	I	ng/L	P335931	
		Malathion	0.36	U	ng/L	P335931	
		Metribuzin	0.21	UJ	ng/L	P335931	CCV, LCS, MS
		Mevinphos	0.51	U	ng/L	P335931	
		Molinate	0.31	U	ng/L	P335931	
		Norflurazon	0.51	U	ng/L	P335931	
		Pendimethalin	1.0	U	ng/L	P335931	
		Phorate	0.26	U	ng/L	P335931	
		Prometon	0.92	U	ng/L	P335931	
		Prometryn	0.21	U	ng/L	P335931	
		Simazine	0.51	U	ng/L	P335931	
		Terbufos	0.10	U	ng/L	P335931	
		Terbuthylazine	0.44	U	ng/L	P335931	
		Fonofos	0.21	U	ng/L	P335931	
		Metalaxyl	0.53	I	ng/L	P335931	
		Metolachlor	0.56	I	ng/L	P335931	
		Acetochlor	0.26	U	ng/L	P335931	
		Cyanazine	0.51	UJ	ng/L	P335931	LCS, MS, RPD
		Parathion Ethyl	0.26	U	ng/L	P335931	
		Parathion Methyl	0.26	U	ng/L	P335931	

Field ID: G4SENNR3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1947938	EPA 200.7 Rev. 4.4	Calcium	54.5		mg/L	P335972	
		Iron	88	I	ug/L	P335972	
		Magnesium	14.6		mg/L	P335972	
		Potassium	4.6		mg/L	P335972	
		Sodium	46.1		mg/L	P335972	
		Zinc	5.0	U	ug/L	P335972	
	EPA 200.8 Rev. 5.4	Arsenic	0.74		ug/L	P335972	
		Cadmium	0.020	U	ug/L	P335972	
		Chromium	0.40	U	ug/L	P335972	
		Copper	0.20	U	ug/L	P335972	
		Lead	0.064	I	ug/L	P335972	
		Nickel	0.20	U	ug/L	P335972	
		Silver	0.010	U	ug/L	P335972	

Ref. Method and Comment:

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

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

EPA 8270D: Refer to the narrative for an explanation of QC Codes. The sample was re-extracted and re-analyzed after expiration. All results were non-detects except for DDD-p,p' 2.5 T ng/L.

EPA 8276: Refer to the narrative for an explanation of QC Codes. The sample was re-extracted and re-analyzed (after expiration) with Toxaphene results 40.7 ng/L

Sample Location: New River @ Andrews

Collection Date/Time: 11/20/2017 14:00

Field ID: 28030521

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1947898	EPA 180.1 Rev. 2.0	Turbidity	30		NTU	P335794	
	SM 2320 B-97	Total Alkalinity	212		mg CaCO3/L	P336241	
	SM 2540 D-97	TSS	22		mg/L	P336298	
	SM 4500 F-C-97	Fluoride	0.30		mg F/L	P336330	
1947899	EPA 350.1 Rev. 2.0	Ammonia-N	0.066		mg N/L	P336336	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P336178	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.35		mg N/L	P336038	
	EPA 365.1 Rev. 2.0	Total-P	0.082		mg P/L	P336067	
	SM 5310 B-00	Organic Carbon	17		mg C/L	P336195	
1947900	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.013		mg P/L	P335745	
1947930	EPA 8321B	Sucralose**	0.12		ug/L	P335805	
	USGS O-2060-01	2,4-D	0.047	Q	ug/L	P336263	
		Diuron	0.0091		ug/L	P335693	
		Fenuron	0.0080	U	ug/L	P335693	
		Imidacloprid	0.019		ug/L	P335693	MS
		Bentazon	0.043	Q	ug/L	P336263	
		Linuron	0.0040	U	ug/L	P335693	
		Acetaminophen**	0.0080	U	ug/L	P335693	
		MCP	0.0020	UQ	ug/L	P336263	
		Carbamazepine**	7.5E-04	I	ug/L	P335693	
		Triclopyr**	0.0040	UQ	ug/L	P336263	
		Primidone**	0.0040	U	ug/L	P335693	

Field ID: 28030521

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1947930	USGS O-2060-01	Fluridone**	0.016		ug/L	P335693	

Ref. Method and Comment:

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

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

Sample Location: New River North Fork @ Sunrise

Collection Date/Time: 11/20/2017 14:25

Field ID: G4SEB064

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1947904	EPA 180.1 Rev. 2.0	Turbidity	3.7		NTU	P335794	
	SM 2320 B-97	Total Alkalinity	203		mg CaCO3/L	P336241	
	SM 2540 D-97	TSS	7	I	mg/L	P336298	
	SM 4500 F-C-97	Fluoride	0.17		mg F/L	P336330	
1947905	EPA 350.1 Rev. 2.0	Ammonia-N	0.022		mg N/L	P336336	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.90		mg N/L	P336178	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	I	mg N/L	P336038	
	EPA 365.1 Rev. 2.0	Total-P	0.076		mg P/L	P336067	
	SM 5310 B-00	Organic Carbon	8.8		mg C/L	P336195	
1947906	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.009	I	mg P/L	P335744	
1947932	EPA 8321B	Sucralose**	0.18		ug/L	P335805	
	USGS O-2060-01	2,4-D	0.0020	IQ	ug/L	P336263	
		Diuron	0.0090		ug/L	P335693	
		Fenuron	0.0080	U	ug/L	P335693	
		Imidacloprid	0.025		ug/L	P335693	MS
		Bentazon	0.025	Q	ug/L	P336263	
		Linuron	0.0040	U	ug/L	P335693	
		Acetaminophen**	0.0080	U	ug/L	P335693	
		MCP	0.0020	UQ	ug/L	P336263	
		Carbamazepine**	9.2E-04	I	ug/L	P335693	
		Triclopyr**	0.0040	UQ	ug/L	P336263	
		Primidone**	0.0040	U	ug/L	P335693	
		Fluridone**	0.011		ug/L	P335693	

Ref. Method and Comment:

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

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

USGS O-2060-01: Results confirmed in re-extraction.

Sample Location: C-12 @ 9th and Sunrise

Collection Date/Time: 11/20/2017 14:30

Field ID: G4SEB128

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1947907	EPA 180.1 Rev. 2.0	Turbidity	11	A	NTU	P335795	
	EPA 300.0 Rev. 2.1	Chloride	30		mg Cl/L	P336017	
		Sulfate	6.5		mg SO4/L	P336019	
	SM 2120 B	Color (true)	30		PCU	P335738	
	SM 2320 B-97	Total Alkalinity	153	A	mg CaCO3/L	P336241	
	SM 2540 C-97	TDS	236		mg/L	P336346	

Field ID: G4SEB128

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1947907	SM 2540 D-97	TSS	10		mg/L	P336296	
	SM 4500 F-C-97	Fluoride	0.17		mg F/L	P336330	
1947908	EPA 350.1 Rev. 2.0	Ammonia-N	0.057		mg N/L	P336337	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.81		mg N/L	P336179	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.039		mg N/L	P336039	
	EPA 365.1 Rev. 2.0	Total-P	0.040		mg P/L	P336067	
	SM 5310 B-00	Organic Carbon	8.1		mg C/L	P336195	
1947909	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P335744	

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P335794

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P335795

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
 Batch ID: P335972

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: P335972

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: P336017

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P336017

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P336019

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P336336

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P336337

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P336178

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P336179

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P336038

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P336039

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P336067

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: P335744

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P335745

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

Reference Method: EPA 8270D
Batch ID: P335864

Component	Result	Code	Units
Aldrin	4.0	U	ng/L
Alpha-BHC	2.0	U	ng/L
Alpha-Chlordane	1.0	U	ng/L
Beta-BHC	4.0	U	ng/L
Carbophenothion	4.0	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cypermethrin	20	U	ng/L
DDD-p,p'	3.0	U	ng/L
DDE-p,p'	3.0	U	ng/L
DDT-p,p'	3.0	U	ng/L
Delta-BHC	4.0	U	ng/L
Dicofol	30	U	ng/L
Dieldrin	4.0	U	ng/L
Endosulfan I	4.0	U	ng/L
Endosulfan II	4.0	U	ng/L
Endosulfan Sulfate	2.0	U	ng/L
Endrin	2.0	U	ng/L
Endrin Aldehyde	2.0	U	ng/L
Endrin Ketone	2.0	U	ng/L
Gamma-BHC	4.0	U	ng/L
Gamma-Chlordane	1.0	U	ng/L
Heptachlor	1.5	U	ng/L
Heptachlor Epoxide	2.0	U	ng/L
Methoxychlor	4.0	U	ng/L
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Trifluralin	1.0	U	ng/L

Reference Method: EPA 8270D
Batch ID: P335931

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D

Batch ID: P335931

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

Reference Method: EPA 8276

Batch ID: P335864

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

Reference Method: EPA 8321B

Batch ID: P335737

Component	Result	Code	Units
Glyphosate	0.10	U	ug/L

Reference Method: EPA 8321B

Batch ID: P335805

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P335811

Component	Result	Code	Units
Pyraclostrobin	0.0020	U	ug/L

Reference Method: SM 2120 B
Batch ID: P335738

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P336241

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

Reference Method: SM 2540 C-97
Batch ID: P336346

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P336296

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P336298

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P336330

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P336195

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

Reference Method: USGS O-2060-01
Batch ID: P335693

Component	Result	Code	Units
Acetaminophen	0.0080	U	ug/L
Carbamazepine	4.0E-04	U	ug/L
Diuron	8.0E-04	U	ug/L
Fenuron	0.0080	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: USGS O-2060-01
Batch ID: P335693

Component	Result	Code	Units
Fluridone	4.0E-04	U	ug/L
Imidacloprid	8.0E-04	U	ug/L
Linuron	0.0040	U	ug/L
Primidone	0.0040	U	ug/L

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

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P335972

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Iron	101		P	85 - 115
Magnesium	110		P	85 - 115
Potassium	105		P	85 - 115
Sodium	102		P	85 - 115
Zinc	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P335972

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	103		P	85 - 115
Cadmium	103		P	85 - 115
Chromium	96.1		P	85 - 115
Copper	99.6		P	85 - 115
Lead	100		P	85 - 115
Nickel	101		P	85 - 115
Silver	103		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P336017

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	94.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P336019

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P336336

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P336337

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P336178

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.1		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P336179

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.6		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P336038

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P336039

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P336067

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P335744

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P335745

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P335864

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	54.7	62.1	P/P	26 - 88.0
Alpha-BHC	102	91.9	P/P	63 - 114
Alpha-Chlordane	87.8	85.6	P/P	56 - 117
Beta-BHC	99.2	138	P/P	57 - 138
Carbophenothion	71.1	73.0	P/P	36 - 148
Chlorothalonil	88.3	77.4	P/P	26 - 173
Cypermethrin	129	101	P/P	42 - 159
DDD-p,p'	97.8	108	P/P	62 - 126
DDE-p,p'	93.5	95.7	P/P	53 - 115
DDT-p,p'	114	129	P/F	54 - 117
Delta-BHC	108	115	P/P	68 - 158
Dicofol	86.4	97.2	P/P	25 - 114
Dieldrin	93.8	88.4	P/P	59 - 126
Endosulfan I	97.0	97.3	P/P	62 - 138
Endosulfan II	110	122	P/P	61 - 150
Endosulfan Sulfate	93.0	91.1	P/P	63 - 132
Endrin	95.9	89.8	P/P	49 - 148
Endrin Aldehyde	80.3	75.7	P/P	50 - 144
Endrin Ketone	93.3	89.4	P/P	66 - 122
Gamma-BHC	96.2	103	P/P	60 - 137
Gamma-Chlordane	86.0	83.8	P/P	54 - 113
Heptachlor	82.6	75.6	P/P	43 - 104
Heptachlor Epoxide	88.5	84.2	P/P	64 - 118
Methoxychlor	115	103	P/P	63 - 129
Mirex	83.6	80.0	P/P	40 - 96.0
Permethrin	103	87.7	P/P	51 - 123
Trifluralin	93.7	86.9	P/P	35 - 187

Reference Method: EPA 8270D
Batch ID: P335931

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	93.4	91.1	P/P	78 - 118
Alachlor	95.7	92.9	P/P	77 - 119
Ametryn	73.8	79.5	P/P	61 - 136
Atrazine	99.5	101	P/P	73 - 120
Atrazine Desethyl	103	108	P/P	16 - 122
Azinphos Methyl	126	117	P/P	69 - 186
Bromacil	81.8	79.0	P/P	40 - 125
Butylate	75.1	74.2	P/P	32 - 87.0
Chlorpyrifos Ethyl	93.9	94.3	P/P	53 - 110
Chlorpyrifos Methyl	95.9	96.6	P/P	31 - 119
Cyanazine	173	243	P/F	36 - 224
Demeton	60.0	65.4	P/P	39 - 122
Diazinon	87.6	84.5	P/P	75 - 119
Disulfoton	74.6	76.4	P/P	42 - 139
EPTC	66.6	62.5	P/P	33 - 96.0
Ethion	92.8	101	P/P	63 - 127
Ethoprop	98.8	100	P/P	65 - 107
Fenamiphos	105	97.9	P/P	64 - 137
Fipronil	96.1	97.9	P/P	60 - 126
Fipronil Sulfide	92.6	94.2	P/P	58 - 124

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P335931

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fipronil Sulfone	89.3	93.5	P/P	57 - 126
Fonofos	91.3	89.8	P/P	65 - 111
Hexazinone	86.4	88.9	P/P	46 - 151
Malathion	98.2	100	P/P	68 - 132
Metalaxyl	95.3	94.6	P/P	51 - 132
Metolachlor	94.3	91.4	P/P	78 - 119
Metribuzin	125	158	P/F	58 - 148
Mevinphos	62.7	57.1	P/P	34 - 128
Molinate	64.8	59.2	P/P	44 - 101
Norflurazon	94.8	94.3	P/P	63 - 129
Parathion Ethyl	90.9	92.6	P/P	80 - 109
Parathion Methyl	101	101	P/P	74 - 125
Pendimethalin	98.6	94.7	P/P	48 - 134
Phorate	84.0	82.4	P/P	52 - 119
Prometon	73.6	87.2	P/P	69 - 124
Prometryn	90.4	93.9	P/P	66 - 124
Simazine	99.0	103	P/P	61 - 134
Terbufos	87.6	87.6	P/P	58 - 115
Terbutylazine	96.9	96.0	P/P	77 - 113

Reference Method: EPA 8276
Batch ID: P335864

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	60.8	57.4	P/P	48 - 121
Toxaphene	131	103	P/P	43 - 135

Reference Method: EPA 8321B
Batch ID: P335737

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Glyphosate	113		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P335805

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	73.8		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P335811

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pyraclostrobin	85.4		P	40 - 150

Reference Method: SM 2320 B-97
Batch ID: P336241

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P336330

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	94.8		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P336195

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

Reference Method: USGS O-2060-01
Batch ID: P335693

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetaminophen	105		P	30 - 150
Carbamazepine	100		P	40 - 150
Diuron	114		P	40 - 150
Fenuron	103		P	40 - 150
Fluridone	101		P	40 - 150
Imidacloprid	90.7		P	40 - 160
Linuron	102		P	40 - 150
Primidone	88.9		P	40 - 150

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

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P335972

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947938	Calcium	102		P	80 - 120
1947938	Iron	104		P	80 - 120
1947938	Magnesium	103		P	80 - 120
1947938	Potassium	108		P	80 - 120
1947938	Sodium	103		P	80 - 120
1947938	Zinc	102		P	80 - 120
1948255	Calcium	101		P	80 - 120
1948255	Iron	99.2		P	80 - 120
1948255	Magnesium	109	105	P/P	80 - 120
1948255	Potassium	112	109	P/P	80 - 120
1948255	Sodium	104		P	80 - 120
1948255	Zinc	99.2	97.8	P/P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P335972

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947938	Arsenic	107		P	80 - 120
1947938	Cadmium	104		P	80 - 120
1947938	Chromium	94.9		P	80 - 120
1947938	Copper	99.9		P	80 - 120
1947938	Lead	103		P	80 - 120
1947938	Nickel	101		P	80 - 120
1947938	Silver	103		P	80 - 120
1948255	Arsenic	104	103	P/P	80 - 120
1948255	Cadmium	102	101	P/P	80 - 120
1948255	Chromium	95.5	96.1	P/P	80 - 120
1948255	Copper	99.4	99.6	P/P	80 - 120
1948255	Lead	99.7	99.5	P/P	80 - 120
1948255	Nickel	102	102	P/P	80 - 120
1948255	Silver	103	103	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P336017

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947761	Chloride	93.4		P	90 - 110
1947809	Chloride	96.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P336019

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947761	Sulfate	93.0		P	90 - 110
1947809	Sulfate	96.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P336336

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947891	Ammonia-N	98.1	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P336337

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947979	Ammonia-N	102	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P336178

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947905	Kjeldahl Nitrogen	97.0	93.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P336179

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1948019	Kjeldahl Nitrogen	101	105	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P336038

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947833	NO2NO3-N	102	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P336039

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947908	NO2NO3-N	106	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P336067

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947896	Total-P	97.7	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P335744

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947819	O-Phosphate-P	101	97.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P335745

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947900	O-Phosphate-P	90.5	97.1	P/P	90 - 110

Reference Method: EPA 8270D
Batch ID: P335864

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1948409	Aldrin	68.8	76.8	P/P	22 - 97.0
1948409	Alpha-BHC	92.7	95.7	P/P	43 - 132
1948409	Alpha-Chlordane	90.5	91.5	P/P	36 - 126
1948409	Beta-BHC	103	92.3	P/P	41 - 150
1948409	Carbophenothion	90.2	90.7	P/P	13 - 196
1948409	Chlorothalonil	86.6	90.2	P/P	10 - 266
1948409	Cypermethrin	99.8	104	P/P	37 - 161
1948409	DDD-p,p'	110	102	P/P	44 - 131
1948409	DDE-p,p'	102	99.2	P/P	32 - 127
1948409	DDT-p,p'	117	108	F/P	45 - 116
1948409	Delta-BHC	118	107	P/P	50 - 201
1948409	Dicofol	88.5	104	P/F	10 - 100
1948409	Dieldrin	95.9	94.0	P/P	39 - 142
1948409	Endosulfan I	97.4	98.6	P/P	51 - 139
1948409	Endosulfan II	123	136	P/P	49 - 155
1948409	Endosulfan Sulfate	88.6	98.0	P/P	54 - 136
1948409	Endrin	94.6	93.2	P/P	38 - 141
1948409	Endrin Aldehyde	90.4	91.4	P/P	14 - 152
1948409	Endrin Ketone	88.6	97.6	P/P	60 - 128
1948409	Gamma-BHC	96.8	99.4	P/P	48 - 157
1948409	Gamma-Chlordane	85.8	90.7	P/P	35 - 123
1948409	Heptachlor	73.0	84.6	P/P	25 - 112

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D

Batch ID: P335864

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1948409	Heptachlor Epoxide	86.9	91.2	P/P	48 - 125
1948409	Methoxychlor	102	103	P/P	52 - 127
1948409	Mirex	83.1	92.3	P/P	25 - 108
1948409	Permethrin	92.2	97.1	P/P	46 - 133
1948409	Trifluralin	90.2	95.7	P/P	29 - 254

Reference Method: EPA 8270D

Batch ID: P335931

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947936	Acetochlor	95.0	76.9	P/P	74 - 123
1947936	Alachlor	97.2	79.8	P/P	73 - 124
1947936	Ametryn	70.7	35.9	P/F	56 - 149
1947936	Atrazine	138	88.3	F/P	73 - 124
1947936	Atrazine Desethyl	157	150	F/F	12 - 103
1947936	Azinphos Methyl	121	104	P/P	60 - 202
1947936	Bromacil	104	84.6	P/P	42 - 133
1947936	Butylate	71.2	57.6	P/P	10 - 85.0
1947936	Chlorpyrifos Ethyl	84.9	77.4	P/P	53 - 113
1947936	Chlorpyrifos Methyl	91.7	83.7	P/P	40 - 115
1947936	Cyanazine	239	231	F/F	22 - 210
1947936	Demeton	88.5	88.4	P/P	17 - 149
1947936	Diazinon	91.0	74.3	P/P	72 - 124
1947936	Disulfoton	95.0	89.2	P/P	43 - 139
1947936	EPTC	65.5	51.3	P/P	10 - 86.0
1947936	Ethion	84.6	75.3	P/P	65 - 131
1947936	Ethoprop	111	103	F/P	59 - 110
1947936	Fenamiphos	113	115	P/P	57 - 138
1947936	Fipronil	96.6	78.4	P/P	40 - 130
1947936	Fipronil Sulfide	88.7	83.3	P/P	36 - 128
1947936	Fipronil Sulfone	87.8	78.4	P/P	16 - 145
1947936	Fonofos	97.1	90.3	P/P	60 - 112
1947936	Hexazinone	97.5	83.6	P/P	69 - 142
1947936	Malathion	97.1	86.3	P/P	68 - 132
1947936	Metalaxyl	92.8	77.4	P/P	66 - 118
1947936	Metolachlor	97.4	78.2	P/P	71 - 124
1947936	Metribuzin	246	222	F/F	61 - 140
1947936	Mevinphos	72.7	58.9	P/P	38 - 130
1947936	Molinate	73.4	59.2	P/P	23 - 99.0
1947936	Norflurazon	95.9	76.9	P/P	39 - 139
1947936	Parathion Ethyl	97.1	88.4	P/P	75 - 111
1947936	Parathion Methyl	108	101	P/P	64 - 130
1947936	Pendimethalin	101	89.9	P/P	26 - 173
1947936	Phorate	85.6	80.9	P/P	43 - 127
1947936	Prometon	98.4	82.6	P/P	50 - 144
1947936	Prometryn	99.8	79.6	P/P	69 - 126
1947936	Simazine	99.0	86.3	P/P	51 - 152
1947936	Terbufos	98.2	92.3	P/P	54 - 125
1947936	Terbutylazine	102	85.5	P/P	76 - 113

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8276
Batch ID: P335864

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947935	Chlordane	48.2	57.4	P/P	44 - 134
1947935	Toxaphene	7.27	14.7	F/F	36 - 147

Reference Method: EPA 8321B
Batch ID: P335737

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947929	Glyphosate	106	110	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P335805

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947930	Sucralose	107	115	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P335811

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947929	Pyraclostrobin	87.4	78.8	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P336330

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947907	Fluoride	95.2	95.9	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P336195

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947826	Organic Carbon	96.6	100	P/P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P335693

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947629	Acetaminophen	99.0	107	P/P	30 - 150
1947629	Carbamazepine	71.7	72.7	P/P	40 - 150
1947629	Diuron	75.2	76.1	P/P	40 - 150
1947629	Fenuron	72.1	69.1	P/P	40 - 150
1947629	Fluridone	87.6	89.9	P/P	40 - 150
1947629	Imidacloprid	178	182	F/F	40 - 160
1947629	Linuron	89.7	89.4	P/P	40 - 150
1947629	Primidone	80.4	82.4	P/P	40 - 150

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

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

Quality Assurance Report Matrix Spike Accuracy

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

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1947129	MCP	64.8	68.5	P/P	40 - 150
1947129	Triclopyr	54.0	68.8	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P335794

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947830	Turbidity	1.67	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P335795

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947907	Turbidity	3.54	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P335972

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1948255	Calcium	0.735	Spike	P	0 - 20
1948255	Iron	2.23	Spike	P	0 - 20
1948255	Magnesium	2.16	Spike	P	0 - 20
1948255	Potassium	2.09	Spike	P	0 - 20
1948255	Sodium	0.565	Spike	P	0 - 20
1948255	Zinc	1.29	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P335972

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1948255	Arsenic	0.299	Spike	P	0 - 20
1948255	Cadmium	1.37	Spike	P	0 - 20
1948255	Chromium	0.640	Spike	P	0 - 20
1948255	Copper	0.102	Spike	P	0 - 20
1948255	Lead	0.223	Spike	P	0 - 20
1948255	Nickel	0.434	Spike	P	0 - 20
1948255	Silver	0.821	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P336017

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947761	Chloride	0.343	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P336019

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947761	Sulfate	0.224	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P336336

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947891	Ammonia-N	3.03	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P336337

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947979	Ammonia-N	0.889	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P336178

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947905	Kjeldahl Nitrogen	1.92	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P336179

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1948019	Kjeldahl Nitrogen	2.90	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P336038

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947833	NO2NO3-N	0.707	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P336039

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947908	NO2NO3-N	1.61	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P336067

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947896	Total-P	2.26	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P335744

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947819	O-Phosphate-P	3.84	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P335745

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947900	O-Phosphate-P	6.19	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P335864

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1948409	Aldrin	11.0	Spike	P	0 - 30
1948409	Alpha-BHC	3.12	Spike	P	0 - 30
1948409	Alpha-Chlordane	1.04	Spike	P	0 - 30
1948409	Beta-BHC	10.8	Spike	P	0 - 30
1948409	Carbophenothion	0.497	Spike	P	0 - 30
1948409	Chlorothalonil	4.09	Spike	P	0 - 30
1948409	Cypermethrin	4.26	Spike	P	0 - 30
1948409	DDD-p,p'	7.37	Spike	P	0 - 30
1948409	DDE-p,p'	2.33	Spike	P	0 - 30
1948409	DDT-p,p'	8.52	Spike	P	0 - 30
1948409	Delta-BHC	9.69	Spike	P	0 - 30
1948409	Dicofol	16.0	Spike	P	0 - 30
1948409	Dieldrin	2.05	Spike	P	0 - 30
1948409	Endosulfan I	1.19	Spike	P	0 - 30
1948409	Endosulfan II	9.55	Spike	P	0 - 30
1948409	Endosulfan Sulfate	10.1	Spike	P	0 - 30
1948409	Endrin	1.54	Spike	P	0 - 30
1948409	Endrin Aldehyde	1.07	Spike	P	0 - 30
1948409	Endrin Ketone	9.70	Spike	P	0 - 30
1948409	Gamma-BHC	2.67	Spike	P	0 - 30
1948409	Gamma-Chlordane	5.50	Spike	P	0 - 30
1948409	Heptachlor	14.7	Spike	P	0 - 30
1948409	Heptachlor Epoxide	4.79	Spike	P	0 - 30
1948409	Methoxychlor	1.12	Spike	P	0 - 30
1948409	Mirex	10.5	Spike	P	0 - 30
1948409	Permethrin	5.12	Spike	P	0 - 30
1948409	Trifluralin	5.93	Spike	P	0 - 30
LFB	Aldrin	12.8	LCS	P	0 - 30
LFB	Alpha-BHC	10.3	LCS	P	0 - 30
LFB	Alpha-Chlordane	2.56	LCS	P	0 - 30
LFB	Beta-BHC	32.5	LCS	F	0 - 30
LFB	Carbophenothion	2.53	LCS	P	0 - 30
LFB	Chlorothalonil	13.2	LCS	P	0 - 30
LFB	Cypermethrin	24.4	LCS	P	0 - 30
LFB	DDD-p,p'	9.91	LCS	P	0 - 30
LFB	DDE-p,p'	2.32	LCS	P	0 - 30
LFB	DDT-p,p'	12.5	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P335864

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Delta-BHC	6.18	LCS	P	0 - 30
LFB	Dicofol	11.7	LCS	P	0 - 30
LFB	Dieldrin	5.96	LCS	P	0 - 30
LFB	Endosulfan I	0.387	LCS	P	0 - 30
LFB	Endosulfan II	9.79	LCS	P	0 - 30
LFB	Endosulfan Sulfate	1.99	LCS	P	0 - 30
LFB	Endrin	6.62	LCS	P	0 - 30
LFB	Endrin Aldehyde	5.89	LCS	P	0 - 30
LFB	Endrin Ketone	4.34	LCS	P	0 - 30
LFB	Gamma-BHC	6.52	LCS	P	0 - 30
LFB	Gamma-Chlordane	2.57	LCS	P	0 - 30
LFB	Heptachlor	8.79	LCS	P	0 - 30
LFB	Heptachlor Epoxide	5.02	LCS	P	0 - 30
LFB	Methoxychlor	10.8	LCS	P	0 - 30
LFB	Mirex	4.39	LCS	P	0 - 30
LFB	Permethrin	15.6	LCS	P	0 - 30
LFB	Trifluralin	7.61	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P335931

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947936	Acetochlor	21.0	Spike	P	0 - 30
1947936	Alachlor	19.6	Spike	P	0 - 30
1947936	Ametryn	24.8	Spike	P	0 - 30
1947936	Atrazine	18.0	Spike	P	0 - 30
1947936	Atrazine Desethyl	3.74	Spike	P	0 - 30
1947936	Azinphos Methyl	15.2	Spike	P	0 - 30
1947936	Bromacil	20.3	Spike	P	0 - 30
1947936	Butylate	21.1	Spike	P	0 - 30
1947936	Chlorpyrifos Ethyl	9.25	Spike	P	0 - 30
1947936	Chlorpyrifos Methyl	9.11	Spike	P	0 - 30
1947936	Cyanazine	3.25	Spike	P	0 - 30
1947936	Demeton	0.139	Spike	P	0 - 30
1947936	Diazinon	20.1	Spike	P	0 - 30
1947936	Disulfoton	6.40	Spike	P	0 - 30
1947936	EPTC	24.2	Spike	P	0 - 30
1947936	Ethion	11.6	Spike	P	0 - 30
1947936	Ethoprop	6.91	Spike	P	0 - 30
1947936	Fenamiphos	1.48	Spike	P	0 - 30
1947936	Fipronil	20.9	Spike	P	0 - 30
1947936	Fipronil Sulfide	6.28	Spike	P	0 - 30
1947936	Fipronil Sulfone	11.2	Spike	P	0 - 30
1947936	Fonofos	7.27	Spike	P	0 - 30
1947936	Hexazinone	13.1	Spike	P	0 - 30
1947936	Malathion	11.8	Spike	P	0 - 30
1947936	Metalaxyl	17.5	Spike	P	0 - 30
1947936	Metolachlor	20.9	Spike	P	0 - 30
1947936	Metribuzin	10.3	Spike	P	0 - 30
1947936	Mevinphos	21.0	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P335931

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947936	Molinate	21.4	Spike	P	0 - 30
1947936	Norflurazon	22.0	Spike	P	0 - 30
1947936	Parathion Ethyl	9.36	Spike	P	0 - 30
1947936	Parathion Methyl	6.26	Spike	P	0 - 30
1947936	Pendimethalin	11.5	Spike	P	0 - 30
1947936	Phorate	5.67	Spike	P	0 - 30
1947936	Prometon	17.4	Spike	P	0 - 30
1947936	Prometryn	22.5	Spike	P	0 - 30
1947936	Simazine	13.7	Spike	P	0 - 30
1947936	Terbufos	6.22	Spike	P	0 - 30
1947936	Terbuthylazine	17.3	Spike	P	0 - 30
LFB	Acetochlor	2.46	LCS	P	0 - 30
LFB	Alachlor	2.94	LCS	P	0 - 30
LFB	Ametryn	7.47	LCS	P	0 - 30
LFB	Atrazine	1.08	LCS	P	0 - 30
LFB	Atrazine Desethyl	4.57	LCS	P	0 - 30
LFB	Azinphos Methyl	8.11	LCS	P	0 - 30
LFB	Bromacil	3.51	LCS	P	0 - 30
LFB	Butylate	1.22	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	0.402	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	0.789	LCS	P	0 - 30
LFB	Cyanazine	33.7	LCS	F	0 - 30
LFB	Demeton	8.67	LCS	P	0 - 30
LFB	Diazinon	3.59	LCS	P	0 - 30
LFB	Disulfoton	2.41	LCS	P	0 - 30
LFB	EPTC	6.27	LCS	P	0 - 30
LFB	Ethion	8.38	LCS	P	0 - 30
LFB	Ethoprop	1.50	LCS	P	0 - 30
LFB	Fenamiphos	6.67	LCS	P	0 - 30
LFB	Fipronil	1.84	LCS	P	0 - 30
LFB	Fipronil Sulfide	1.77	LCS	P	0 - 30
LFB	Fipronil Sulfone	4.52	LCS	P	0 - 30
LFB	Fonofos	1.57	LCS	P	0 - 30
LFB	Hexazinone	2.86	LCS	P	0 - 30
LFB	Malathion	2.13	LCS	P	0 - 30
LFB	Metalaxyl	0.733	LCS	P	0 - 30
LFB	Metolachlor	3.08	LCS	P	0 - 30
LFB	Metribuzin	22.7	LCS	P	0 - 30
LFB	Mevinphos	9.32	LCS	P	0 - 30
LFB	Molinate	9.10	LCS	P	0 - 30
LFB	Norflurazon	0.451	LCS	P	0 - 30
LFB	Parathion Ethyl	1.88	LCS	P	0 - 30
LFB	Parathion Methyl	0.200	LCS	P	0 - 30
LFB	Pendimethalin	4.02	LCS	P	0 - 30
LFB	Phorate	1.92	LCS	P	0 - 30
LFB	Prometon	16.9	LCS	P	0 - 30
LFB	Prometryn	3.75	LCS	P	0 - 30
LFB	Simazine	4.16	LCS	P	0 - 30
LFB	Terbufos	0.0400	LCS	P	0 - 30
LFB	Terbuthylazine	0.958	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P335864

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947935	Chlordane	17.4	Spike	P	0 - 30
1947935	Toxaphene	7.35	Spike	P	0 - 30
LFB	Chlordane	5.78	LCS	P	0 - 30
LFB	Toxaphene	24.0	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P335737

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947929	Glyphosate	3.06	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P335805

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947930	Sucralose	6.99	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P335811

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947929	Pyraclostrobin	10.4	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P335738

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947889	Color (true)	5.94	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P336241

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947907	Total Alkalinity	0.147	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P336346

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947895	TDS	3.51	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 4500 F-C-97
Batch ID: P336330

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947907	Fluoride	0.477	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P336195

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947826	Organic Carbon	2.09	Spike	P	0 - 20

Reference Method: USGS O-2060-01
Batch ID: P335693

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1947629	Acetaminophen	7.80	Spike	P	0 - 30
1947629	Carbamazepine	1.45	Spike	P	0 - 30
1947629	Diuron	1.20	Spike	P	0 - 30
1947629	Fenuron	4.24	Spike	P	0 - 30
1947629	Fluridone	2.62	Spike	P	0 - 30
1947629	Imidacloprid	1.82	Spike	P	0 - 30
1947629	Linuron	0.279	Spike	P	0 - 30
1947629	Primidone	2.47	Spike	P	0 - 30

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

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

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

Quality Assurance Report Surrogates

Lab Sample ID: 1947929
Field Sample ID: G4SENNR3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	100	P	30 - 160
EPA 8321B	Acetaminophen-d4	100	P	30 - 160
EPA 8321B	Carbamazepine-d10	76.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	76.4	P	30 - 160
EPA 8321B	Diuron-d6	67.6	P	30 - 160
EPA 8321B	Diuron-d6	93.8	P	30 - 160
EPA 8321B	Diuron-d6	67.6	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 1947929

Field Sample ID: G4SENNR3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Diuron-d6	93.8	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	96.6	P	40 - 160
EPA 8321B	Primidone-d5	79.2	P	30 - 160
EPA 8321B	Primidone-d5	79.2	P	30 - 160
EPA 8321B	Sucralose-d6	131	P	40 - 160
EPA 8321B	Sucralose-d6	131	P	40 - 160
USGS O-2060-01	2,4-D-d3	61.7	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	100	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	76.4	P	30 - 160
USGS O-2060-01	Diuron-d6	67.6	P	30 - 160
USGS O-2060-01	Diuron-d6	93.8	P	30 - 160
USGS O-2060-01	Primidone-d5	79.2	P	30 - 160
USGS O-2060-01	Sucralose-d6	131	P	40 - 160

Lab Sample ID: 1947930

Field Sample ID: 28030521

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	104	P	30 - 160
EPA 8321B	Carbamazepine-d10	82.6	P	30 - 160
EPA 8321B	Diuron-d6	67.7	P	30 - 160
EPA 8321B	Primidone-d5	89.3	P	30 - 160
EPA 8321B	Sucralose-d6	117	P	40 - 160
USGS O-2060-01	2,4-D-d3	74.1	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	104	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	82.6	P	30 - 160
USGS O-2060-01	Diuron-d6	67.7	P	30 - 160
USGS O-2060-01	Primidone-d5	89.3	P	30 - 160
USGS O-2060-01	Sucralose-d6	117	P	40 - 160

Lab Sample ID: 1947931

Field Sample ID: 28030548

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	115	P	30 - 160
EPA 8321B	Carbamazepine-d10	94.8	P	30 - 160
EPA 8321B	Diuron-d6	77.2	P	30 - 160
EPA 8321B	Primidone-d5	94.9	P	30 - 160
EPA 8321B	Sucralose-d6	137	P	40 - 160
USGS O-2060-01	2,4-D-d3	77.2	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	115	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	94.8	P	30 - 160
USGS O-2060-01	Diuron-d6	77.2	P	30 - 160
USGS O-2060-01	Primidone-d5	94.9	P	30 - 160
USGS O-2060-01	Sucralose-d6	137	P	40 - 160

Lab Sample ID: 1947932

Field Sample ID: G4SEB064

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	84.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	94.8	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 1947932
Field Sample ID: G4SEB064

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Diuron-d6	75.5	P	30 - 160
EPA 8321B	Primidone-d5	104	P	30 - 160
EPA 8321B	Sucralose-d6	122	P	40 - 160
USGS O-2060-01	2,4-D-d3	60.0	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	84.8	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	94.8	P	30 - 160
USGS O-2060-01	Diuron-d6	75.5	P	30 - 160
USGS O-2060-01	Primidone-d5	104	P	30 - 160
USGS O-2060-01	Sucralose-d6	122	P	40 - 160

Lab Sample ID: 1947935
Field Sample ID: G4SENNR3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	75.9	P	39 - 118
EPA 8270D	Tetrachloro-m-xylene	54.5	P	32 - 103
EPA 8276	Decachlorobiphenyl	68.4	P	31 - 100

Lab Sample ID: 1947936
Field Sample ID: G4SENNR3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	78.5	P	53 - 135
EPA 8270D	Simazine-d10	79.6	P	71 - 126

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B
Run ID: A80442
Included Lab Sample IDs: 1947895, 1947901, 1947907

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.2	101	P/P	85 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A80443
Included Lab Sample IDs: 1947897, 1947900, 1947903, 1947906, 1947909

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	94.3	96.1	P/P	90 - 110
O-Phosphate-P	98.4	99.6	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A80463
Included Lab Sample IDs: 1947895, 1947898, 1947901, 1947904, 1947907

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A80481
Included Lab Sample IDs: 1947929

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraclostrobin	102	97.0	P/P	60 - 150

Reference Method: EPA 8321B
Run ID: A80490
Included Lab Sample IDs: 1947929

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Glyphosate	90.6	95.8	P/P	70 - 160

Reference Method: USGS O-2060-01
Run ID: A80505
Included Lab Sample IDs: 1947929, 1947930, 1947931, 1947932

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetaminophen	111	111	P/P	60 - 150
Carbamazepine	108	106	P/P	60 - 150
Diuron	114	116	P/P	60 - 150
Fenuron	106	109	P/P	60 - 150
Fluridone	114	113	P/P	60 - 160
Imidacloprid	96.5	99.0	P/P	60 - 150
Linuron	105	112	P/P	60 - 150
Primidone	96.8	107	P/P	60 - 150

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A80566
Included Lab Sample IDs: 1947895, 1947901, 1947907

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

Reference Method: EPA 8321B
Run ID: A80568
Included Lab Sample IDs: 1947929, 1947930, 1947931, 1947932

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	102	123	P/P	60 - 150
Sucralose	63.3	65.9	P/P	60 - 150

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A80575
Included Lab Sample IDs: 1947896, 1947899, 1947902, 1947905, 1947908

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	101	P/P	90 - 110
NO2NO3-N	102	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A80600

Included Lab Sample IDs: 1947938

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	99.6	100	P/P	90 - 110
Iron	98.3	98.2	P/P	90 - 110
Magnesium	99.6	99.5	P/P	90 - 110
Potassium	100	102	P/P	90 - 110
Sodium	98.9	101	P/P	90 - 110
Zinc	99.2	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A80605

Included Lab Sample IDs: 1947899, 1947905

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A80609

Included Lab Sample IDs: 1947896, 1947902, 1947908

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	102	100	P/P	90 - 110
Total-P	98.8	102	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A80618

Included Lab Sample IDs: 1947938

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	102	102	P/P	90 - 110
Cadmium	98.5	100	P/P	90 - 110
Chromium	94.3	95.3	P/P	90 - 110
Copper	102	103	P/P	90 - 110
Lead	99.8	100	P/P	90 - 110
Nickel	102	102	P/P	90 - 110
Silver	99.6	101	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A80633

Included Lab Sample IDs: 1947896, 1947899, 1947902, 1947905, 1947908

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

Reference Method: EPA 8270D

Run ID: A80650

Included Lab Sample IDs: 1947936

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	95.1		P	80 - 120
Alachlor	97.4		P	80 - 120
Ametryn	95.8		P	80 - 120
Atrazine	88.8		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A80650

Included Lab Sample IDs: 1947936

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine Desethyl	119		P	80 - 120
Azinphos Methyl	90.1		P	80 - 120
Bromacil	95.9		P	80 - 120
Butylate	93.0		P	80 - 120
Chlorpyrifos Ethyl	97.8		P	80 - 120
Chlorpyrifos Methyl	97.1		P	80 - 120
Cyanazine	115		P	80 - 120
Demeton	99.6		P	80 - 120
Diazinon	91.3		P	80 - 120
Disulfoton	95.0		P	80 - 120
EPTC	93.9		P	80 - 120
Ethion	95.0		P	80 - 120
Ethoprop	99.4		P	80 - 120
Fenamiphos	97.9		P	80 - 120
Fipronil	95.5		P	80 - 120
Fipronil Sulfide	98.2		P	80 - 120
Fipronil Sulfone	100		P	80 - 120
Fonofos	97.9		P	80 - 120
Hexazinone	96.5		P	80 - 120
Malathion	96.4		P	80 - 120
Metalaxyl	96.8		P	80 - 120
Metolachlor	103		P	80 - 120
Metribuzin	127*		F	80 - 120
Mevinphos	99.4		P	80 - 120
Molinate	103		P	80 - 120
Norflurazon	97.9		P	80 - 120
Parathion Ethyl	91.7		P	80 - 120
Parathion Methyl	92.7		P	80 - 120
Pendimethalin	96.2		P	80 - 120
Phorate	94.2		P	80 - 120
Prometon	95.8		P	80 - 120
Prometryn	95.5		P	80 - 120
Simazine	95.1		P	80 - 120
Terbufos	95.2		P	80 - 120
Terbuthylazine	96.6		P	80 - 120

Reference Method: SM 2320 B-97

Run ID: A80654

Included Lab Sample IDs: 1947895, 1947898, 1947901, 1947904, 1947907

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	99.6	P/P	90 - 110
Total Alkalinity	99.3	101	P/P	90 - 110

Reference Method: EPA 8270D

Run ID: A80678

Included Lab Sample IDs: 1947935

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	100		P	80 - 120
Alpha-BHC	94.8		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A80678

Included Lab Sample IDs: 1947935

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Alpha-Chlordane	99.1		P	80 - 120
Beta-BHC	97.2		P	80 - 120
Carbophenothion	95.8		P	80 - 120
Chlorothalonil	109		P	80 - 120
Cypermethrin	87.4		P	80 - 120
DDD-p,p'	100		P	80 - 120
DDE-p,p'	93.7		P	80 - 120
DDT-p,p'	111		P	80 - 120
Delta-BHC	104		P	80 - 120
Dicofol	97.5		P	80 - 120
Dieldrin	101		P	80 - 120
Endosulfan I	103		P	80 - 120
Endosulfan II	109		P	80 - 120
Endosulfan Sulfate	98.6		P	80 - 120
Endrin	98.0		P	80 - 120
Endrin Aldehyde	96.6		P	80 - 120
Endrin Ketone	95.5		P	80 - 120
Gamma-BHC	93.8		P	80 - 120
Gamma-Chlordane	99.7		P	80 - 120
Heptachlor	98.1		P	80 - 120
Heptachlor Epoxide	99.8		P	80 - 120
Methoxychlor	103		P	80 - 120
Mirex	100		P	80 - 120
Permethrin	93.2		P	80 - 120
Trifluralin	98.9		P	80 - 120

Reference Method: SM 4500 F-C-97

Run ID: A80689

Included Lab Sample IDs: 1947895, 1947898, 1947901, 1947904, 1947907

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	97.6	98.1	P/P	90 - 110
Fluoride	98.1	98.6	P/P	90 - 110

Reference Method: USGS O-2060-01

Run ID: A80693

Included Lab Sample IDs: 1947929, 1947930, 1947931, 1947932

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	91.6	94.2	P/P	50 - 150
Bentazon	102	104	P/P	50 - 150
MCP	95.4	100	P/P	50 - 150
Triclopyr	93.3	93.0	P/P	50 - 150

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A80695

Included Lab Sample IDs: 1947896, 1947899, 1947902, 1947905, 1947908

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A80695

Included Lab Sample IDs: 1947896, 1947899, 1947902, 1947905, 1947908

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.8	98.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A80699

Included Lab Sample IDs: 1947896, 1947899, 1947902, 1947905, 1947908

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.3	98.3	P/P	90 - 110
Kjeldahl Nitrogen	97.7	94.6	P/P	90 - 110
Kjeldahl Nitrogen	98.3	97.7	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A80703

Included Lab Sample IDs: 1947935

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	87.3		P	80 - 120
Toxaphene	114		P	80 - 120

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity							1.67	
	Turbidity							3.54	
EPA 200.7 Rev. 4.4	Calcium	104		102	101				0.735
	Iron	101		104	99.2				2.23
	Magnesium	110		103	109	105			2.16
	Potassium	105		108	112	109			2.09
	Sodium	102		103	104				0.565
	Zinc	101		102	99.2	97.8			1.29
EPA 200.8 Rev. 5.4	Arsenic	103		107	104	103			0.299
	Cadmium	103		104	102	101			1.37
	Chromium	96.1		94.9	95.5	96.1			0.640
	Copper	99.6		99.9	99.4	99.6			0.102
	Lead	100		103	99.7	99.5			0.223
	Nickel	101		101	102	102			0.434
	Silver	103		103	103	103			0.821
EPA 300.0 Rev. 2.1	Chloride	94.9		93.4	96.0			0.343	
	Sulfate	95.6		93.0	96.1			0.224	
EPA 350.1 Rev. 2.0	Ammonia-N	97.9		98.1	101				3.03
	Ammonia-N	104		102	103				0.889
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.1		97.0	93.7				1.92
	Kjeldahl Nitrogen	99.6		101	105				2.90
EPA 353.2 Rev. 2.0	NO2NO3-N	104		102	101				0.707

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision	MS
							SMP	
EPA 353.2 Rev. 2.0	NO2NO3-N	104		106	104			1.61
EPA 365.1 Rev. 2.0	Total-P	102		97.7	100			2.26
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101		101	97.0			3.84
	O-Phosphate-P	98.3		90.5	97.1			6.19
EPA 8270D	Acetochlor	93.4	91.1	95.0	76.9	2.46		21.0
	Alachlor	95.7	92.9	97.2	79.8	2.94		19.6
	Aldrin	54.7	62.1	68.8	76.8	12.8		11.0
	Alpha-BHC	102	91.9	92.7	95.7	10.3		3.12
	Alpha-Chlordane	87.8	85.6	90.5	91.5	2.56		1.04
	Ametryn	73.8	79.5	70.7	35.9	7.47		24.8
	Atrazine	99.5	101	138	88.3	1.08		18.0
	Atrazine Desethyl	103	108	157	150	4.57		3.74
	Azinphos Methyl	126	117	121	104	8.11		15.2
	Beta-BHC	99.2	138	103	92.3	32.5		10.8
	Bromacil	81.8	79.0	104	84.6	3.51		20.3
	Butylate	75.1	74.2	71.2	57.6	1.22		21.1
	Carbophenothion	71.1	73.0	90.2	90.7	2.53		0.497
	Chlorothalonil	88.3	77.4	86.6	90.2	13.2		4.09
	Chlorpyrifos Ethyl	93.9	94.3	84.9	77.4	0.402		9.25
	Chlorpyrifos Methyl	95.9	96.6	91.7	83.7	0.789		9.11
	Cyanazine	173	243	239	231	33.7		3.25
	Cypermethrin	129	101	99.8	104	24.4		4.26
	DDD-p,p'	97.8	108	110	102	9.91		7.37
	DDE-p,p'	93.5	95.7	102	99.2	2.32		2.33
	DDT-p,p'	114	129	117	108	12.5		8.52
	Delta-BHC	108	115	118	107	6.18		9.69
	Demeton	60.0	65.4	88.5	88.4	8.67		0.139
	Diazinon	87.6	84.5	91.0	74.3	3.59		20.1
	Dicofol	86.4	97.2	88.5	104	11.7		16.0
	Dieldrin	93.8	88.4	95.9	94.0	5.96		2.05
	Disulfoton	74.6	76.4	95.0	89.2	2.41		6.40
	Endosulfan I	97.0	97.3	97.4	98.6	0.387		1.19
	Endosulfan II	110	122	123	136	9.79		9.55
	Endosulfan Sulfate	93.0	91.1	88.6	98.0	1.99		10.1
	Endrin	95.9	89.8	94.6	93.2	6.62		1.54
	Endrin Aldehyde	80.3	75.7	90.4	91.4	5.89		1.07
	Endrin Ketone	93.3	89.4	88.6	97.6	4.34		9.70
	EPTC	66.6	62.5	65.5	51.3	6.27		24.2
	Ethion	92.8	101	84.6	75.3	8.38		11.6
	Ethoprop	98.8	100	111	103	1.50		6.91
	Fenamiphos	105	97.9	113	115	6.67		1.48
	Fipronil	96.1	97.9	96.6	78.4	1.84		20.9
	Fipronil Sulfide	92.6	94.2	88.7	83.3	1.77		6.28
	Fipronil Sulfone	89.3	93.5	87.8	78.4	4.52		11.2
	Fonofos	91.3	89.8	97.1	90.3	1.57		7.27
	Gamma-BHC	96.2	103	96.8	99.4	6.52		2.67
	Gamma-Chlordane	86.0	83.8	85.8	90.7	2.57		5.50
	Heptachlor	82.6	75.6	73.0	84.6	8.79		14.7
	Heptachlor Epoxide	88.5	84.2	86.9	91.2	5.02		4.79
	Hexazinone	86.4	88.9	97.5	83.6	2.86		13.1
	Malathion	98.2	100	97.1	86.3	2.13		11.8
	Metalaxyl	95.3	94.6	92.8	77.4	0.733		17.5
	Methoxychlor	115	103	102	103	10.8		1.12
	Metolachlor	94.3	91.4	97.4	78.2	3.08		20.9

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Metribuzin	125	158	246	222	22.7	10.3
	Mevinphos	62.7	57.1	72.7	58.9	9.32	21.0
	Mirex	83.6	80.0	83.1	92.3	4.39	10.5
	Molinate	64.8	59.2	73.4	59.2	9.10	21.4
	Norflurazon	94.8	94.3	95.9	76.9	0.451	22.0
	Parathion Ethyl	90.9	92.6	97.1	88.4	1.88	9.36
	Parathion Methyl	101	101	108	101	0.200	6.26
	Pendimethalin	98.6	94.7	101	89.9	4.02	11.5
	Permethrin	103	87.7	92.2	97.1	15.6	5.12
	Phorate	84.0	82.4	85.6	80.9	1.92	5.67
	Prometon	73.6	87.2	98.4	82.6	16.9	17.4
	Prometryn	90.4	93.9	99.8	79.6	3.75	22.5
	Simazine	99.0	103	99.0	86.3	4.16	13.7
	Terbufos	87.6	87.6	98.2	92.3	0.0400	6.22
	Terbuthylazine	96.9	96.0	102	85.5	0.958	17.3
	Trifluralin	93.7	86.9	90.2	95.7	7.61	5.93
EPA 8276	Chlordane	60.8	57.4	48.2	57.4	5.78	17.4
	Toxaphene	131	103	7.27	14.7	24.0	7.35
EPA 8321B	Glyphosate	113		106	110		3.06
	Pyraclostrobin	85.4		87.4	78.8		10.4
	Sucralose	73.8		107	115		6.99
SM 2120 B	Color (true)					5.94	
SM 2320 B-97	Total Alkalinity	102				0.147	
SM 2540 C-97	TDS					3.51	
SM 4500 F-C-97	Fluoride	94.8		95.2	95.9		0.477
SM 5310 B-00	Organic Carbon	101		96.6	100		2.09
USGS O-2060-01	2,4-D	113		75.9	83.8		9.89
	Acetaminophen	105		99.0	107		7.80
	Bentazon	83.2		49.7	57.0		13.7
	Carbamazepine	100		71.7	72.7		1.45
	Diuron	114		75.2	76.1		1.20
	Fenuron	103		72.1	69.1		4.24
	Fluridone	101		87.6	89.9		2.62
	Imidacloprid	90.7		178	182		1.82
	Linuron	102		89.7	89.4		0.279
	MCPP	111		64.8	68.5		5.52
	Primidone	88.9		80.4	82.4		2.47
	Triclopyr	107		54.0	68.8		24.0

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1947895, 1947898, 1947901, 1947904, 1947907
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1947938
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1947938
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1947895, 1947901, 1947907
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1947895, 1947901, 1947907
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1947896, 1947899, 1947902, 1947905, 1947908

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1947896, 1947899, 1947902, 1947905, 1947908
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1947896, 1947899, 1947902, 1947905, 1947908
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1947896, 1947899, 1947902, 1947905, 1947908
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1947897, 1947900, 1947903, 1947906, 1947909
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	1947935
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1947936
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	1947935
EPA 8321B / E31780	Analysis of sucralose in water matrices by HPLC/MS/MS	1947929, 1947930, 1947931, 1947932
EPA 8321B / E31780	Glyphosate in water matrices by HPLC/MS/MS	1947929
EPA 8321B / E31780	Pyraclostrobin in water matrices by HPLC/MS/MS	1947929
SM 2120 B / E31780	True Color measured at 450 nm	1947895, 1947901, 1947907
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1947895, 1947898, 1947901, 1947904, 1947907
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1947895, 1947901, 1947907
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1947895, 1947898, 1947901, 1947904, 1947907
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1947895, 1947898, 1947901, 1947904, 1947907
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1947896, 1947899, 1947902, 1947905, 1947908
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1947929, 1947930, 1947931, 1947932
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1947929, 1947930, 1947931, 1947932

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	11/21/2017			11/21/2017 16:18	DeAsia Armster	1947895, 1947898, 1947901, 1947904, 1947907
EPA 200.7 Rev. 4.4	11/21/2017	11/28/2017	Elliott D. Healy	11/29/2017	Martin Acosta	1947938
EPA 200.8 Rev. 5.4	11/21/2017	11/28/2017	Elliott D. Healy	11/30/2017	Nadine Brooks	1947938
EPA 300.0 Rev. 2.1	11/21/2017			11/29/2017	Julia Storbeck	1947895, 1947901, 1947907
EPA 350.1 Rev. 2.0	11/21/2017			12/04/2017	Sofia Elnemr	1947896, 1947899, 1947902, 1947905, 1947908
EPA 351.2 Rev. 2.0	11/21/2017	12/01/2017	Adrian Shelby	12/04/2017	Joseph Suarez	1947896, 1947899, 1947902, 1947905, 1947908
EPA 353.2 Rev. 2.0	11/21/2017			11/29/2017	Beverly Y. Sanders	1947896, 1947899, 1947902, 1947905, 1947908
EPA 365.1 Rev. 2.0	11/21/2017	11/29/2017	Sima Feizi	11/30/2017	Lipi Saha	1947896, 1947899, 1947902, 1947905, 1947908
EPA 365.1 Rev. 2.0 dissolved	11/21/2017			11/21/2017 13:57	Megan Treadwell	1947900
	11/21/2017			11/21/2017 15:03	Megan Treadwell	1947897
	11/21/2017			11/21/2017 15:04	Megan Treadwell	1947903
	11/21/2017			11/21/2017 15:05	Megan Treadwell	1947906
	11/21/2017			11/21/2017 15:06	Megan Treadwell	1947909
EPA 8270D	11/21/2017	11/27/2017	John Kaba	11/29/2017	Goutam Palui	1947935
	11/21/2017	11/27/2017	Rasheda Ghaffari	11/30/2017	Vandana T. Nagar	1947936
EPA 8276	11/21/2017	11/27/2017	John Kaba	11/29/2017	John P. Burgos	1947935
EPA 8321B	11/21/2017	11/22/2017	Mohammad Ghaffari	11/22/2017	Mohammad Ghaffari	1947929
	11/21/2017	11/22/2017	Mohammad Ghaffari	11/25/2017	Mohammad Ghaffari	1947929
	11/21/2017	11/28/2017	Juyoung Kim	11/28/2017	Juyoung Kim	1947930
	11/21/2017	11/28/2017	Juyoung Kim	11/29/2017	Juyoung Kim	1947929, 1947931, 1947932
SM 2120 B	11/21/2017			11/21/2017 15:21	Tanya Welborn	1947895
	11/21/2017			11/21/2017 15:22	Tanya Welborn	1947901
	11/21/2017			11/21/2017 15:23	Tanya Welborn	1947907
SM 2320 B-97	11/21/2017			12/02/2017	Dale L. Simmons	1947895, 1947898, 1947901, 1947904, 1947907
SM 2540 C-97	11/21/2017			11/25/2017	Yijie Li	1947895, 1947901, 1947907
SM 2540 D-97	11/21/2017			11/25/2017	Yijie Li	1947895, 1947898, 1947901, 1947904, 1947907
SM 4500 F-C-97	11/21/2017			12/04/2017	Dale L. Simmons	1947907
	11/21/2017			12/05/2017	Dale L. Simmons	1947895, 1947898, 1947901, 1947904
SM 5310 B-00	11/21/2017			11/29/2017	Ping Hua	1947896, 1947899, 1947902, 1947905, 1947908
USGS O-2060-01	11/21/2017	11/22/2017	Hoor Shaik	11/24/2017	Julie Michelle Frank	1947929, 1947930, 1947931, 1947932
	11/21/2017	12/04/2017	Hoor Shaik	12/04/2017	Julie Michelle Frank	1947929
	11/21/2017	12/04/2017	Hoor Shaik	12/05/2017	Julie Michelle Frank	1947930, 1947931, 1947932