Chemical Analysis Report

SO-DIST-2017-03-28-02

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

Event Description: **SMP: 2030A - Alligator Cr.**
Request ID: **RQ-2017-03-27-17**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901-3381
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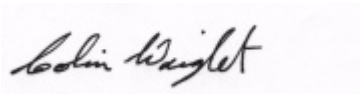
Certified by: Colin Wright, Program Administrator

Date Certified: 20-APR-2017 11:25



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 @ Small Stream Inflow **Collection Date/Time: 03/27/2017 09:20**

Field ID: G2SD032717-1 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1883714	EPA 180.1 Rev. 2.0	Turbidity	1.9	A	NTU	P322451	
	EPA 300.0 Rev. 2.1	Chloride	170		mg Cl/L	P322951	
		Sulfate	120		mg SO4/L	P322950	
	SM 2120 B	Color (true)	61		PCU	P322334	
	SM 2320 B-97	Total Alkalinity	274		mg CaCO3/L	P322803	
	SM 2540 C-97	TDS	740		mg/L	P322947	
	SM 2540 D-97	TSS	6	I	mg/L	P322697	
	SM 4500 F-C-97	Fluoride	0.17		mg F/L	P322806	
1883716	EPA 350.1 Rev. 2.0	Ammonia-N	0.028		mg N/L	P322423	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P322353	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	I	mg N/L	P322473	
	EPA 365.1 Rev. 2.0	Total-P	0.18		mg P/L	P322394	
	SM 5310 B-00	Organic Carbon	16		mg C/L	P322430	
1883718	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.10		mg P/L	P322361	
1883751	EPA 200.7 Rev. 4.4	Calcium	145		mg/L	P322485	
		Iron	160		ug/L	P322485	
		Magnesium	22.8		mg/L	P322485	
		Potassium	3.9		mg/L	P322485	
		Sodium	89.7		mg/L	P322485	
		Zinc	5.0	U	ug/L	P322485	
	EPA 200.8 Rev. 5.4	Arsenic	0.92		ug/L	P322485	
		Cadmium	0.020	U	ug/L	P322485	
		Chromium	0.71	I	ug/L	P322485	
		Copper	0.42	I	ug/L	P322485	
		Lead	0.10	I	ug/L	P322485	
		Nickel	0.50	I	ug/L	P322485	
		Silver	0.010	U	ug/L	P322485	

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

Sample Location: Alligator Creek @ Small Stream Inflow **Collection Date/Time: 03/27/2017 09:20**

Field ID: G2SD032717-1 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1883723	EPA 8321B	Glyphosate**	10	U	ug/L	P322292	
	USGS O-2060-01	2,4-D	0.0040	U	ug/L	P322144	MS
		Diuron	0.0040	U	ug/L	P322144	
		Fenuron	0.0080	U	ug/L	P322144	
		Imidacloprid	0.012	I	ug/L	P322144	
		Bentazon	0.13		ug/L	P322144	
		Linuron	0.0040	U	ug/L	P322144	RPD
		Acetaminophen**	0.010	U	ug/L	P322144	
		MCPP	0.0040	U	ug/L	P322144	
		Carbamazepine**	0.0024		ug/L	P322144	

Field ID: G2SD032717-1 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1883723	USGS O-2060-01	Triclopyr**	0.020	I	ug/L	P322144	
		Primidone**	0.0080	U	ug/L	P322144	
		Fluridone**	0.0042		ug/L	P322144	
1883724	EPA 8321B	Pyraclostrobin**	0.0020	U	ug/L	P322049	
1883726	EPA 8270D	Aldrin	4.3	U	ng/L	P322448	
		Alpha-BHC	2.1	U	ng/L	P322448	
		Beta-BHC	4.3	U	ng/L	P322448	
		Delta-BHC	4.3	U	ng/L	P322448	
		Gamma-BHC	4.3	U	ng/L	P322448	
		Carbophenothion	4.3	UJ	ng/L	P322448	LCS, RPD
		Chlorothalonil	2.1	U	ng/L	P322448	RPD
		Cypermethrin	21	U	ng/L	P322448	
		DDD-p,p'	2.1	U	ng/L	P322448	
		DDE-p,p'	3.2	U	ng/L	P322448	
		DDT-p,p'	3.2	U	ng/L	P322448	
		Dieldrin	4.3	U	ng/L	P322448	
		Endosulfan I	4.3	U	ng/L	P322448	
		Endosulfan II	4.3	U	ng/L	P322448	
		Endosulfan Sulfate	2.1	U	ng/L	P322448	
		Endrin	2.1	U	ng/L	P322448	
		Endrin Aldehyde	2.1	U	ng/L	P322448	
		Heptachlor	1.6	U	ng/L	P322448	
		Heptachlor Epoxide	2.1	U	ng/L	P322448	
		Methoxychlor	4.3	U	ng/L	P322448	
		Mirex	2.1	U	ng/L	P322448	
		Permethrin	11	U	ng/L	P322448	
		Trifluralin	1.1	U	ng/L	P322448	
		Alpha-Chlordane	1.1	U	ng/L	P322448	
		Gamma-Chlordane	1.1	U	ng/L	P322448	
		Endrin Ketone	2.1	U	ng/L	P322448	
		Dicofol	32	U	ng/L	P322448	
	EPA 8276	Chlordane**	2.7	U	ng/L	P322448	
		Toxaphene**	13	UJ	ng/L	P322448	LCS
1883727	EPA 8270D	Ametryn	6.0		ng/L	P322438	
		Atrazine	16		ng/L	P322438	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P322438	
		Chlorpyrifos Methyl	0.10	U	ng/L	P322438	
		Disulfoton	0.33	U	ng/L	P322438	
		Ethion	0.15	U	ng/L	P322438	
		Ethoprop	0.10	U	ng/L	P322438	
		Hexazinone	21		ng/L	P322438	
		Malathion	0.35	U	ng/L	P322438	
		Metribuzin	0.20	U	ng/L	P322438	
		Mevinphos	0.50	U	ng/L	P322438	
		Norflurazon	0.50	U	ng/L	P322438	

Field ID: G2SD032717-1 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1883727	EPA 8270D	Phorate	0.25	U	ng/L	P322438	
		Prometryn	0.20	U	ng/L	P322438	
		Simazine	0.50	U	ng/L	P322438	
		Atrazine Desethyl	1.7	I	ng/L	P322438	
		Prometon	0.90	U	ng/L	P322438	
		Fipronil	0.25	U	ng/L	P322438	
		Molinate	0.30	U	ng/L	P322438	
		Pendimethalin	1.5	U	ng/L	P322438	
		Terbufos	0.10	U	ng/L	P322438	
		EPTC	1.3	U	ng/L	P322438	
		Terbuthylazine	0.43	U	ng/L	P322438	
		Bromacil	0.50	U	ng/L	P322438	
		Fipronil Sulfide	0.33	I	ng/L	P322438	
		Fipronil Sulfone	1.2		ng/L	P322438	
		Alachlor	0.25	U	ng/L	P322438	
		Azinphos Methyl	2.3	U	ng/L	P322438	
		Butylate	0.40	U	ng/L	P322438	
		Demeton	1.0	U	ng/L	P322438	
		Diazinon	0.13	U	ng/L	P322438	
		Fenamiphos	0.25	U	ng/L	P322438	
		Fonofos	0.20	U	ng/L	P322438	
		Metalaxyl	0.20	U	ng/L	P322438	
		Metolachlor	0.25	U	ng/L	P322438	
		Acetochlor	0.25	U	ng/L	P322438	
		Cyanazine	0.50	U	ng/L	P322438	
		Parathion Ethyl	0.25	U	ng/L	P322438	
		Parathion Methyl	0.25	U	ng/L	P322438	

Ref. Method and Comment:
USGS O-2060-01: MS accuracy for bentazon and triclopyr could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8270D: Refer to the narrative for an explanation of QC Codes.
EPA 8276: Refer to the narrative for an explanation of QC Codes.

Sample Location: Alligator Creek @ Small Stream Inflow **Collection Date/Time: 03/27/2017 09:30**
DUPLICATE

Field ID: G2SD032717-2 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1883715	EPA 180.1 Rev. 2.0	Turbidity	2.2		NTU	P322451	
	EPA 300.0 Rev. 2.1	Chloride	170		mg Cl/L	P322951	
		Sulfate	120		mg SO4/L	P322950	
	SM 2120 B	Color (true)	68		PCU	P322334	
	SM 2320 B-97	Total Alkalinity	275		mg CaCO3/L	P322803	
	SM 2540 C-97	TDS	746		mg/L	P322947	
	SM 2540 D-97	TSS	10	I	mg/L	P322697	
	SM 4500 F-C-97	Fluoride	0.17		mg F/L	P322806	
1883717	EPA 350.1 Rev. 2.0	Ammonia-N	0.027		mg N/L	P322423	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P322353	

Field ID: G2SD032717-2 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1883717	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	I	mg N/L	P322473	
	EPA 365.1 Rev. 2.0	Total-P	0.18		mg P/L	P322394	
	SM 5310 B-00	Organic Carbon	17		mg C/L	P322430	
1883719	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.10		mg P/L	P322361	
1883752	EPA 200.7 Rev. 4.4	Calcium	141		mg/L	P322485	
		Iron	160		ug/L	P322485	
		Magnesium	22.4		mg/L	P322485	
		Potassium	3.8		mg/L	P322485	
		Sodium	87.7		mg/L	P322485	
		Zinc	5.0	U	ug/L	P322485	
	EPA 200.8 Rev. 5.4	Arsenic	1.01		ug/L	P322485	
		Cadmium	0.020	U	ug/L	P322485	
		Chromium	0.69	I	ug/L	P322485	
		Copper	0.45	I	ug/L	P322485	
		Lead	0.099	I	ug/L	P322485	
		Nickel	0.46	I	ug/L	P322485	
		Silver	0.010	U	ug/L	P322485	

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

Sample Location: Alligator Creek @ Upstream of Jacaranda **Collection Date/Time: 03/27/2017 09:20**

Field ID: G2SD032717-3 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1883728	EPA 8270D	Aldrin	4.2	U	ng/L	P322448	
		Alpha-BHC	2.1	U	ng/L	P322448	
		Beta-BHC	4.2	U	ng/L	P322448	
		Delta-BHC	4.2	U	ng/L	P322448	
		Gamma-BHC	4.2	U	ng/L	P322448	
		Carbophenothion	4.2	UJ	ng/L	P322448	LCS, RPD
		Chlorothalonil	2.1	U	ng/L	P322448	RPD
		Cypermethrin	21	U	ng/L	P322448	
		DDD-p,p'	2.1	U	ng/L	P322448	
		DDE-p,p'	3.2	U	ng/L	P322448	
		DDT-p,p'	3.2	U	ng/L	P322448	
		Dieldrin	4.2	U	ng/L	P322448	
		Endosulfan I	4.2	U	ng/L	P322448	
		Endosulfan II	4.2	U	ng/L	P322448	
		Endosulfan Sulfate	2.1	U	ng/L	P322448	
		Endrin	2.1	U	ng/L	P322448	
		Endrin Aldehyde	2.1	U	ng/L	P322448	
		Heptachlor	1.6	U	ng/L	P322448	
		Heptachlor Epoxide	2.1	U	ng/L	P322448	
		Methoxychlor	4.2	U	ng/L	P322448	
		Mirex	2.1	U	ng/L	P322448	

Field ID: G2SD032717-3 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1883728	EPA 8270D	Permethrin	11	U	ng/L	P322448	
		Trifluralin	1.1	U	ng/L	P322448	
		Alpha-Chlordane	1.1	U	ng/L	P322448	
		Gamma-Chlordane	1.1	U	ng/L	P322448	
		Endrin Ketone	2.1	U	ng/L	P322448	
		Dicofol	32	U	ng/L	P322448	
	EPA 8276	Chlordane**	2.6	U	ng/L	P322448	
		Toxaphene**	13	UJ	ng/L	P322448	LCS
1883731	EPA 8270D	Ametryn	4.7		ng/L	P322438	
		Atrazine	20		ng/L	P322438	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P322438	
		Chlorpyrifos Methyl	0.095	U	ng/L	P322438	
		Disulfoton	0.31	U	ng/L	P322438	
		Ethion	0.14	U	ng/L	P322438	
		Ethoprop	0.095	U	ng/L	P322438	
		Hexazinone	14		ng/L	P322438	
		Malathion	0.33	U	ng/L	P322438	
		Metribuzin	0.19	U	ng/L	P322438	
		Mevinphos	0.48	U	ng/L	P322438	
		Norflurazon	0.48	U	ng/L	P322438	
		Phorate	0.24	U	ng/L	P322438	
		Prometryn	0.19	U	ng/L	P322438	
		Simazine	0.48	U	ng/L	P322438	
		Atrazine Desethyl	1.6	I	ng/L	P322438	
		Prometon	0.86	U	ng/L	P322438	
		Fipronil	0.24	U	ng/L	P322438	
		Molinate	0.29	U	ng/L	P322438	
		Pendimethalin	1.4	U	ng/L	P322438	
		Terbufos	0.095	U	ng/L	P322438	
		EPTC	1.2	U	ng/L	P322438	
		Terbuthylazine	0.40	U	ng/L	P322438	
		Bromacil	0.48	U	ng/L	P322438	
		Fipronil Sulfide	0.42	I	ng/L	P322438	
		Fipronil Sulfone	1.5		ng/L	P322438	
		Alachlor	0.24	U	ng/L	P322438	
		Azinphos Methyl	2.1	U	ng/L	P322438	
		Butylate	0.38	U	ng/L	P322438	
		Demeton	0.95	U	ng/L	P322438	
		Diazinon	0.12	U	ng/L	P322438	
		Fenamiphos	0.24	U	ng/L	P322438	
		Fonofos	0.19	U	ng/L	P322438	
		Metalaxyl	1.8		ng/L	P322438	
		Metolachlor	0.24	U	ng/L	P322438	
		Acetochlor	0.24	U	ng/L	P322438	
		Cyanazine	0.48	U	ng/L	P322438	

Field ID: G2SD032717-3 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1883731	EPA 8270D	Parathion Ethyl	0.24	U	ng/L	P322438	
		Parathion Methyl	0.24	U	ng/L	P322438	

Ref. Method and Comment:
EPA 8270D: Refer to the narrative for an explanation of QC Codes.
EPA 8276: Refer to the narrative for an explanation of QC Codes.

Sample Location: Canal at Heron Road **Collection Date/Time: 03/27/2017 10:30**

Field ID: G2SD032717-4 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1883729	EPA 8270D	Aldrin	4.3	U	ng/L	P322448	
		Alpha-BHC	2.1	U	ng/L	P322448	
		Beta-BHC	4.3	U	ng/L	P322448	
		Delta-BHC	4.3	U	ng/L	P322448	
		Gamma-BHC	4.3	U	ng/L	P322448	
		Carbophenothion	4.3	UJ	ng/L	P322448	LCS, RPD
		Chlorothalonil	2.1	U	ng/L	P322448	RPD
		Cypermethrin	21	U	ng/L	P322448	
		DDD-p,p'	2.1	U	ng/L	P322448	
		DDE-p,p'	3.2	U	ng/L	P322448	
		DDT-p,p'	3.2	U	ng/L	P322448	
		Dieldrin	4.3	U	ng/L	P322448	
		Endosulfan I	4.3	U	ng/L	P322448	
		Endosulfan II	4.3	U	ng/L	P322448	
		Endosulfan Sulfate	2.1	U	ng/L	P322448	
		Endrin	2.1	U	ng/L	P322448	
		Endrin Aldehyde	2.1	U	ng/L	P322448	
		Heptachlor	1.6	U	ng/L	P322448	
		Heptachlor Epoxide	2.1	U	ng/L	P322448	
		Methoxychlor	4.3	U	ng/L	P322448	
		Mirex	2.1	U	ng/L	P322448	
		Permethrin	11	U	ng/L	P322448	
		Trifluralin	1.1	U	ng/L	P322448	
		Alpha-Chlordane	1.1	U	ng/L	P322448	
		Gamma-Chlordane	1.1	U	ng/L	P322448	
		Endrin Ketone	2.1	U	ng/L	P322448	
		Dicofol	32	U	ng/L	P322448	
	EPA 8276	Chlordane**	2.7	U	ng/L	P322448	
		Toxaphene**	13	UJ	ng/L	P322448	LCS
1883732	EPA 8270D	Ametryn	2.2		ng/L	P322438	
		Atrazine	59		ng/L	P322438	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P322438	
		Chlorpyrifos Methyl	0.098	U	ng/L	P322438	
		Disulfoton	0.32	U	ng/L	P322438	
		Ethion	0.15	U	ng/L	P322438	
		Ethoprop	0.098	U	ng/L	P322438	

Field ID: G2SD032717-4 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1883732	EPA 8270D	Hexazinone	0.92	I	ng/L	P322438	
		Malathion	0.34	U	ng/L	P322438	
		Metribuzin	0.20	U	ng/L	P322438	
		Mevinphos	0.49	U	ng/L	P322438	
		Norflurazon	0.49	U	ng/L	P322438	
		Phorate	0.24	U	ng/L	P322438	
		Prometryn	0.20	U	ng/L	P322438	
		Simazine	0.49	U	ng/L	P322438	
		Atrazine Desethyl	5.4	I	ng/L	P322438	
		Prometon	0.88	U	ng/L	P322438	
		Fipronil	0.24	U	ng/L	P322438	
		Molinate	0.29	U	ng/L	P322438	
		Pendimethalin	1.5	U	ng/L	P322438	
		Terbufos	0.098	U	ng/L	P322438	
		EPTC	1.2	U	ng/L	P322438	
		Terbuthylazine	0.42	U	ng/L	P322438	
		Bromacil	0.49	U	ng/L	P322438	
		Fipronil Sulfide	0.34	I	ng/L	P322438	
		Fipronil Sulfone	0.83		ng/L	P322438	
		Alachlor	0.24	U	ng/L	P322438	
		Azinphos Methyl	2.2	U	ng/L	P322438	
		Butylate	0.39	U	ng/L	P322438	
		Demeton	0.98	U	ng/L	P322438	
		Diazinon	0.12	U	ng/L	P322438	
		Fenamiphos	0.24	U	ng/L	P322438	
		Fonofos	0.20	U	ng/L	P322438	
		Metalaxyl	0.20	U	ng/L	P322438	
		Metolachlor	0.24	U	ng/L	P322438	
		Acetochlor	0.24	U	ng/L	P322438	
		Cyanazine	0.49	U	ng/L	P322438	
		Parathion Ethyl	0.24	U	ng/L	P322438	
		Parathion Methyl	0.24	U	ng/L	P322438	

Ref. Method and Comment:
EPA 8270D: Refer to the narrative for an explanation of QC Codes.
EPA 8276: Refer to the narrative for an explanation of QC Codes.

Sample Location: Gottfried Creek @ Deer Creek Mobile Home Park **Collection Date/Time: 03/27/2017 11:10**

Field ID: G2SD032717-5 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1883730	EPA 8270D	Aldrin	4.2	U	ng/L	P322448	
		Alpha-BHC	2.1	U	ng/L	P322448	
		Beta-BHC	4.2	U	ng/L	P322448	
		Delta-BHC	4.2	U	ng/L	P322448	
		Gamma-BHC	4.2	U	ng/L	P322448	

Field ID: G2SD032717-5 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1883730	EPA 8270D	Carbophenothion	4.2	UJ	ng/L	P322448	LCS, RPD
		Chlorothalonil	2.1	U	ng/L	P322448	RPD
		Cypermethrin	21	U	ng/L	P322448	
		DDD-p,p'	2.1	U	ng/L	P322448	
		DDE-p,p'	3.2	U	ng/L	P322448	
		DDT-p,p'	3.2	U	ng/L	P322448	
		Dieldrin	4.2	U	ng/L	P322448	
		Endosulfan I	4.2	U	ng/L	P322448	
		Endosulfan II	4.2	U	ng/L	P322448	
		Endosulfan Sulfate	2.1	U	ng/L	P322448	
		Endrin	2.1	U	ng/L	P322448	
		Endrin Aldehyde	2.1	U	ng/L	P322448	
		Heptachlor	1.6	U	ng/L	P322448	
		Heptachlor Epoxide	2.1	U	ng/L	P322448	
		Methoxychlor	4.2	U	ng/L	P322448	
		Mirex	2.1	U	ng/L	P322448	
		Permethrin	11	U	ng/L	P322448	
		Trifluralin	1.1	U	ng/L	P322448	
		Alpha-Chlordane	1.1	U	ng/L	P322448	
		Gamma-Chlordane	1.1	U	ng/L	P322448	
		Endrin Ketone	2.1	U	ng/L	P322448	
		Dicofol	32	U	ng/L	P322448	
	EPA 8276	Chlordane**	2.6	U	ng/L	P322448	
		Toxaphene**	13	UJ	ng/L	P322448	LCS
1883733	EPA 8270D	Ametryn	0.30	U	ng/L	P322438	
		Atrazine	10		ng/L	P322438	
		Chlorpyrifos Ethyl	0.23	U	ng/L	P322438	
		Chlorpyrifos Methyl	0.093	U	ng/L	P322438	
		Disulfoton	0.30	U	ng/L	P322438	
		Ethion	0.14	U	ng/L	P322438	
		Ethoprop	0.093	U	ng/L	P322438	
		Hexazinone	0.47	U	ng/L	P322438	
		Malathion	0.33	U	ng/L	P322438	
		Metribuzin	0.19	U	ng/L	P322438	
		Mevinphos	0.47	U	ng/L	P322438	
		Norflurazon	0.47	U	ng/L	P322438	
		Phorate	0.23	U	ng/L	P322438	
		Prometryn	0.19	U	ng/L	P322438	
		Simazine	0.90	I	ng/L	P322438	
		Atrazine Desethyl	1.4	U	ng/L	P322438	
		Prometon	0.84	U	ng/L	P322438	
		Fipronil	0.23	U	ng/L	P322438	
		Molinate	0.28	U	ng/L	P322438	
		Pendimethalin	1.4	U	ng/L	P322438	
		Terbufos	0.093	U	ng/L	P322438	

Field ID: G2SD032717-5 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1883733	EPA 8270D	EPTC	1.2	U	ng/L	P322438	
		Terbuthylazine	0.40	U	ng/L	P322438	
		Bromacil	0.47	U	ng/L	P322438	
		Fipronil Sulfide	0.14	U	ng/L	P322438	
		Fipronil Sulfone	0.14	U	ng/L	P322438	
		Alachlor	0.23	U	ng/L	P322438	
		Azinphos Methyl	2.1	U	ng/L	P322438	
		Butylate	0.37	U	ng/L	P322438	
		Demeton	0.93	U	ng/L	P322438	
		Diazinon	0.12	U	ng/L	P322438	
		Fenamiphos	0.23	U	ng/L	P322438	
		Fonofos	0.19	U	ng/L	P322438	
		Metalaxyl	0.19	U	ng/L	P322438	
		Metolachlor	0.23	U	ng/L	P322438	
		Acetochlor	0.23	U	ng/L	P322438	
		Cyanazine	0.47	U	ng/L	P322438	
		Parathion Ethyl	0.23	U	ng/L	P322438	
		Parathion Methyl	0.23	U	ng/L	P322438	

Ref. Method and Comment:
EPA 8270D: Refer to the narrative for an explanation of QC Codes.
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: P322451

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P322485

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: P322485

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P322485

Component	Result	Code	Units
Nickel	0.20	U	ug/L
Silver	0.010	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P322950

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P322951

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P322423

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P322353

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P322473

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P322394

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P322361

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

Reference Method: EPA 8270D
Batch ID: P322438

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.32	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270D
Batch ID: P322438

Component	Result	Code	Units
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	1.0	U	ng/L
Diazinon	0.12	U	ng/L
Disulfoton	0.32	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	1.5	U	ng/L
Phorate	0.25	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Simazine	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L

Reference Method: EPA 8270D
Batch ID: P322448

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'	2.0	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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270D
Batch ID: P322448

Component	Result	Code	Units
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: P322448

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

Reference Method: EPA 8321B
Batch ID: P322049

Component	Result	Code	Units
Pyraclostrobin	0.0020	U	ug/L

Reference Method: EPA 8321B
Batch ID: P322292

Component	Result	Code	Units
Glyphosate	10	U	ug/L

Reference Method: SM 2120 B
Batch ID: P322334

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P322803

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

Reference Method: SM 2540 C-97
Batch ID: P322947

Component	Result	Code	Units

Quality Assurance Report
Method Blank Results

Reference Method: SM 2540 C-97
Batch ID: P322947

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P322697

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P322806

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P322430

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

Reference Method: USGS O-2060-01
Batch ID: P322144

Component	Result	Code	Units
2,4-D	0.0040	U	ug/L
Acetaminophen	0.010	U	ug/L
Bentazon	0.0040	U	ug/L
Carbamazepine	4.0E-04	U	ug/L
Diuron	0.0040	U	ug/L
Fenuron	0.0080	U	ug/L
Fluridone	4.0E-04	U	ug/L
Imidacloprid	0.0040	U	ug/L
Linuron	0.0040	U	ug/L
MCPP	0.0040	U	ug/L
Primidone	0.0080	U	ug/L
Triclopyr	0.010	U	ug/L

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P322485

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	94.8		P	85 - 115
Iron	107		P	85 - 115
Magnesium	94.9		P	85 - 115
Potassium	102		P	85 - 115
Sodium	103		P	85 - 115
Zinc	101		P	85 - 115

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P322485

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	102		P	85 - 115
Cadmium	98.3		P	85 - 115
Chromium	97.9		P	85 - 115
Copper	99.1		P	85 - 115
Lead	102		P	85 - 115
Nickel	102		P	85 - 115
Silver	104		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P322950

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P322951

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P322423

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P322353

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P322473

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P322394

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	109		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P322361

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P322438

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	84.6	90.7	P/P	78 - 118
Alachlor	84.7	90.3	P/P	77 - 119
Ametryn	95.9	115	P/P	61 - 136
Atrazine	92.7	93.1	P/P	73 - 120
Atrazine Desethyl	61.5	65.8	P/P	16 - 122
Azinphos Methyl	91.1	106	P/P	69 - 186
Bromacil	81.4	77.9	P/P	40 - 125
Butylate	54.9	56.5	P/P	32 - 87.0
Chlorpyrifos Ethyl	84.3	83.7	P/P	53 - 110
Chlorpyrifos Methyl	77.6	81.9	P/P	31 - 119
Cyanazine	91.8	99.5	P/P	36 - 224
Demeton	84.6	93.5	P/P	39 - 122
Diazinon	82.4	89.0	P/P	75 - 119
Disulfoton	81.1	91.2	P/P	42 - 139
EPTC	57.9	52.7	P/P	33 - 96.0
Ethion	90.0	88.8	P/P	63 - 127
Ethoprop	74.8	79.3	P/P	65 - 107
Fenamiphos	101	97.9	P/P	64 - 137
Fipronil	94.1	96.6	P/P	60 - 126
Fipronil Sulfide	89.9	86.2	P/P	58 - 124
Fipronil Sulfone	89.3	82.4	P/P	57 - 126
Fonofos	72.7	76.7	P/P	65 - 111
Hexazinone	90.8	86.5	P/P	46 - 151
Malathion	88.7	93.0	P/P	68 - 132
Metalaxyl	82.2	92.7	P/P	51 - 132
Metolachlor	90.0	92.6	P/P	78 - 119
Metribuzin	92.5	95.8	P/P	64 - 138
Mevinphos	72.9	75.2	P/P	34 - 128
Molinate	62.2	59.0	P/P	44 - 101
Norflurazon	92.5	88.3	P/P	63 - 129
Parathion Ethyl	87.7	86.3	P/P	80 - 109
Parathion Methyl	81.2	87.6	P/P	74 - 125
Pendimethalin	88.0	88.0	P/P	48 - 134
Phorate	76.1	84.4	P/P	52 - 119
Prometon	90.2	100	P/P	69 - 124
Prometryn	89.6	102	P/P	66 - 124
Simazine	96.6	94.9	P/P	61 - 134
Terbufos	71.5	76.8	P/P	58 - 115
Terbuthylazine	91.4	86.1	P/P	77 - 113

Reference Method: EPA 8270D
Batch ID: P322448

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	47.3	45.6	P/P	30 - 83.0
Alpha-BHC	71.0	76.6	P/P	62 - 119
Alpha-Chlordane	66.4	69.0	P/P	56 - 119
Beta-BHC	81.8	92.1	P/P	54 - 141
Carbophenothion	25.2	45.2	F/P	33 - 147
Chlorothalonil	79.5	103	P/P	25 - 175
Cypermethrin	75.5	75.0	P/P	50 - 155
DDD-p,p'	73.6	82.8	P/P	56 - 135

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P322448

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
DDE-p,p'	71.1	81.4	P/P	48 - 120
DDT-p,p'	84.0	91.5	P/P	51 - 121
Delta-BHC	88.4	102	P/P	65 - 163
Dicofol	78.0	70.4	P/P	15 - 112
Dieldrin	69.6	73.6	P/P	59 - 134
Endosulfan I	74.0	74.0	P/P	65 - 142
Endosulfan II	78.7	85.1	P/P	65 - 154
Endosulfan Sulfate	73.3	84.1	P/P	65 - 136
Endrin	64.6	61.0	P/P	53 - 156
Endrin Aldehyde	71.3	72.8	P/P	47 - 156
Endrin Ketone	98.6	101	P/P	70 - 124
Gamma-BHC	71.7	79.1	P/P	64 - 142
Gamma-Chlordane	66.4	69.0	P/P	55 - 114
Heptachlor	61.9	63.5	P/P	42 - 105
Heptachlor Epoxide	69.8	71.1	P/P	67 - 120
Methoxychlor	79.4	79.7	P/P	63 - 134
Mirex	56.1	61.8	P/P	40 - 90.0
Permethrin	72.4	70.4	P/P	36 - 144
Trifluralin	73.3	72.7	P/P	40 - 170

Reference Method: EPA 8276
Batch ID: P322448

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	98.4	107	P/P	42 - 113
Toxaphene	115	133	P/F	40 - 120

Reference Method: EPA 8321B
Batch ID: P322049

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pyraclostrobin	74.8		P	40 - 140

Reference Method: EPA 8321B
Batch ID: P322292

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Glyphosate	107		P	40 - 140

Reference Method: SM 2320 B-97
Batch ID: P322803

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	95 - 108

Reference Method: SM 4500 F-C-97
Batch ID: P322806

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	92 - 103

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-00
Batch ID: P322430

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.9		P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P322144

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	105		P	40 - 140
Acetaminophen	66.4		P	40 - 140
Bentazon	125		P	40 - 140
Carbamazepine	111		P	40 - 140
Diuron	78.4		P	40 - 140
Fenuron	85.2		P	40 - 140
Fluridone	78.0		P	40 - 140
Imidacloprid	83.6		P	40 - 160
Linuron	82.8		P	40 - 140
MCPP	96.4		P	40 - 140
Primidone	86.0		P	40 - 140
Triclopyr	109		P	40 - 140

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P322485

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1883509	Calcium	101		P	80 - 120
1883509	Iron	110		P	80 - 120
1883509	Magnesium	105		P	80 - 120
1883509	Potassium	103		P	80 - 120
1883509	Sodium	102		P	80 - 120
1883509	Zinc	102		P	80 - 120
1883935	Calcium	104		P	80 - 120
1883935	Iron	108	107	P/P	80 - 120
1883935	Magnesium	104		P	80 - 120
1883935	Potassium	101	99.5	P/P	80 - 120
1883935	Sodium	102	102	P/P	80 - 120
1883935	Zinc	98.1	100	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P322485

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1883509	Arsenic	102		P	80 - 120
1883509	Cadmium	102		P	80 - 120
1883509	Chromium	99.2		P	80 - 120
1883509	Copper	97.4		P	80 - 120
1883509	Lead	104		P	80 - 120
1883509	Nickel	97.2		P	80 - 120
1883509	Silver	104		P	80 - 120
1883935	Arsenic	95.4	97.6	P/P	80 - 120

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P322485

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1883935	Cadmium	94.0	92.9	P/P	80 - 120
1883935	Chromium	93.5	95.3	P/P	80 - 120
1883935	Copper	90.9	92.2	P/P	80 - 120
1883935	Lead	97.5	98.4	P/P	80 - 120
1883935	Nickel	91.4	93.9	P/P	80 - 120
1883935	Silver	101	102	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P322950

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1883759	Sulfate	99.4		P	90 - 110
1884006	Sulfate	97.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P322951

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1883759	Chloride	99.8		P	90 - 110
1884006	Chloride	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P322423

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1883914	Ammonia-N	107	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P322353

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1883716	Kjeldahl Nitrogen	102	98.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P322473

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1883698	NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P322394

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1883575	Total-P	106	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P322361

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1883579	O-Phosphate-P	95.9	97.4	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P322438

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1883507	Acetochlor	96.6	86.8	P/P	74 - 123
1883507	Alachlor	100	90.5	P/P	73 - 124
1883507	Ametryn	141	124	P/P	56 - 149
1883507	Atrazine	108	92.4	P/P	73 - 124
1883507	Atrazine Desethyl	53.2	55.4	P/P	12 - 103
1883507	Azinphos Methyl	104	99.2	P/P	60 - 202
1883507	Bromacil	108	85.3	P/P	42 - 133
1883507	Butylate	44.1	38.2	P/P	10 - 85.0
1883507	Chlorpyrifos Ethyl	83.4	77.8	P/P	53 - 113
1883507	Chlorpyrifos Methyl	87.1	77.7	P/P	40 - 115
1883507	Cyanazine	106	98.9	P/P	22 - 210
1883507	Demeton	116	112	P/P	17 - 149
1883507	Diazinon	102	90.8	P/P	72 - 124
1883507	Disulfoton	88.2	84.1	P/P	43 - 139
1883507	EPTC	47.2	43.3	P/P	10 - 86.0
1883507	Ethion	86.2	76.3	P/P	65 - 131
1883507	Ethoprop	99.9	92.4	P/P	59 - 110
1883507	Fenamiphos	85.7	78.8	P/P	57 - 138
1883507	Fipronil	105	93.9	P/P	40 - 130
1883507	Fipronil Sulfide	81.8	75.4	P/P	36 - 128
1883507	Fipronil Sulfone	80.7	68.5	P/P	16 - 145
1883507	Fonofos	90.7	87.0	P/P	60 - 112
1883507	Hexazinone	91.3	82.0	P/P	69 - 142
1883507	Malathion	96.4	86.0	P/P	68 - 132
1883507	Metalaxyl	91.7	83.0	P/P	66 - 118
1883507	Metolachlor	99.2	89.5	P/P	71 - 124
1883507	Metribuzin	107	101	P/P	61 - 140
1883507	Mevinphos	102	106	P/P	38 - 130
1883507	Molinate	61.4	57.3	P/P	23 - 99.0
1883507	Norflurazon	84.1	77.0	P/P	39 - 139
1883507	Parathion Ethyl	96.7	86.3	P/P	75 - 111
1883507	Parathion Methyl	102	92.8	P/P	64 - 130
1883507	Pendimethalin	102	91.9	P/P	26 - 173
1883507	Phorate	104	101	P/P	43 - 127
1883507	Prometon	114	99.9	P/P	50 - 144
1883507	Prometryn	91.2	89.6	P/P	69 - 126
1883507	Simazine	90.8	91.2	P/P	51 - 152
1883507	Terbufos	93.3	86.0	P/P	54 - 125
1883507	Terbuthylazine	95.9	85.6	P/P	76 - 113

Reference Method: EPA 8270D
Batch ID: P322448

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1883804	Aldrin	55.8	50.5	P/P	30 - 83.0
1883804	Alpha-BHC	79.4	72.0	P/P	62 - 119
1883804	Alpha-Chlordane	74.2	69.2	P/P	56 - 119
1883804	Beta-BHC	87.8	83.4	P/P	54 - 141
1883804	Carbophenothion	84.6	79.0	P/P	33 - 147
1883804	Chlorothalonil	61.6	84.7	P/P	25 - 175
1883804	Cypermethrin	71.3	74.1	P/P	50 - 155
1883804	DDD-p,p'	84.0	80.0	P/P	56 - 135

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P322448

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1883804	DDE-p,p'	80.3	78.6	P/P	48 - 120
1883804	DDT-p,p'	83.2	81.3	P/P	51 - 121
1883804	Delta-BHC	105	98.7	P/P	65 - 163
1883804	Dicofol	76.5	57.6	P/P	15 - 112
1883804	Dieldrin	90.8	80.0	P/P	59 - 134
1883804	Endosulfan I	79.8	76.0	P/P	65 - 142
1883804	Endosulfan II	91.9	84.8	P/P	65 - 154
1883804	Endosulfan Sulfate	73.7	71.7	P/P	65 - 136
1883804	Endrin	68.7	65.8	P/P	53 - 156
1883804	Endrin Aldehyde	68.7	72.0	P/P	47 - 156
1883804	Endrin Ketone	106	99.9	P/P	70 - 124
1883804	Gamma-BHC	87.1	84.2	P/P	64 - 142
1883804	Gamma-Chlordane	74.2	69.2	P/P	55 - 114
1883804	Heptachlor	65.2	61.0	P/P	42 - 105
1883804	Heptachlor Epoxide	76.9	73.4	P/P	67 - 120
1883804	Methoxychlor	81.0	75.2	P/P	63 - 134
1883804	Mirex	64.4	61.6	P/P	40 - 90.0
1883804	Permethrin	71.9	70.5	P/P	36 - 144
1883804	Trifluralin	84.8	78.8	P/P	40 - 170

Reference Method: EPA 8276
Batch ID: P322448

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1883542	Chlordane	69.2	69.2	P/P	42 - 113
1883542	Toxaphene	66.7	50.9	P/P	40 - 120

Reference Method: EPA 8321B
Batch ID: P322049

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1882583	Pyraclostrobin	89.6	82.4	P/P	40 - 140

Reference Method: EPA 8321B
Batch ID: P322292

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1884283	Glyphosate	82.4	86.0	P/P	40 - 140

Reference Method: SM 4500 F-C-97
Batch ID: P322806

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1883911	Fluoride	102	103	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P322430

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1883696	Organic Carbon	105		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: USGS O-2060-01
Batch ID: P322144

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1883627	2,4-D	156	122	F/P	40 - 140
1883627	Acetaminophen	80.4	76.8	P/P	40 - 140
1883627	Carbamazepine	59.6	50.8	P/P	40 - 140
1883627	Diuron	47.2	48.4	P/P	40 - 140
1883627	Fenuron	52.0	47.2	P/P	40 - 140
1883627	Fluridone	40.8	48.8	P/P	40 - 140
1883627	Imidacloprid	109	94.8	P/P	40 - 160
1883627	Linuron	54.4	80.4	P/P	40 - 140
1883627	MCPP	132	112	P/P	40 - 140
1883627	Primidone	60.0	66.4	P/P	40 - 140

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P322451

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1883714	Turbidity	0.0	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P322485

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1883935	Calcium	1.14	Spike	P	0 - 20
1883935	Iron	1.25	Spike	P	0 - 20
1883935	Magnesium	0.386	Spike	P	0 - 20
1883935	Potassium	1.20	Spike	P	0 - 20
1883935	Sodium	0.167	Spike	P	0 - 20
1883935	Zinc	2.41	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P322485

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1883935	Arsenic	2.29	Spike	P	0 - 20
1883935	Cadmium	1.10	Spike	P	0 - 20
1883935	Chromium	1.94	Spike	P	0 - 20
1883935	Copper	1.41	Spike	P	0 - 20
1883935	Lead	0.972	Spike	P	0 - 20
1883935	Nickel	2.64	Spike	P	0 - 20
1883935	Silver	1.41	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P322950

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

Quality Assurance Report
Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P322950

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1883759	Sulfate	4.25	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P322951

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1883759	Chloride	0.00432	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P322423

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1883914	Ammonia-N	2.76	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P322353

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1883716	Kjeldahl Nitrogen	2.23	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P322473

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1883698	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P322394

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1883575	Total-P	2.12	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P322361

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1883579	O-Phosphate-P	1.39	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P322438

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1883507	Acetochlor	10.7	Spike	P	0 - 30
1883507	Alachlor	10.2	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270D
Batch ID: P322438

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1883507	Ametryn	13.3	Spike	P	0 - 30
1883507	Atrazine	3.83	Spike	P	0 - 30
1883507	Atrazine Desethyl	3.46	Spike	P	0 - 30
1883507	Azinphos Methyl	4.82	Spike	P	0 - 30
1883507	Bromacil	23.2	Spike	P	0 - 30
1883507	Butylate	14.4	Spike	P	0 - 30
1883507	Chlorpyrifos Ethyl	6.97	Spike	P	0 - 30
1883507	Chlorpyrifos Methyl	11.4	Spike	P	0 - 30
1883507	Cyanazine	7.00	Spike	P	0 - 30
1883507	Demeton	2.81	Spike	P	0 - 30
1883507	Diazinon	11.5	Spike	P	0 - 30
1883507	Disulfoton	4.72	Spike	P	0 - 30
1883507	EPTC	8.56	Spike	P	0 - 30
1883507	Ethion	12.2	Spike	P	0 - 30
1883507	Ethoprop	7.85	Spike	P	0 - 30
1883507	Fenamiphos	8.43	Spike	P	0 - 30
1883507	Fipronil	11.1	Spike	P	0 - 30
1883507	Fipronil Sulfide	8.07	Spike	P	0 - 30
1883507	Fipronil Sulfone	12.3	Spike	P	0 - 30
1883507	Fonofos	4.17	Spike	P	0 - 30
1883507	Hexazinone	10.8	Spike	P	0 - 30
1883507	Malathion	11.4	Spike	P	0 - 30
1883507	Metalaxyl	9.97	Spike	P	0 - 30
1883507	Metolachlor	9.75	Spike	P	0 - 30
1883507	Metribuzin	5.43	Spike	P	0 - 30
1883507	Mevinphos	3.24	Spike	P	0 - 30
1883507	Molinate	6.92	Spike	P	0 - 30
1883507	Norflurazon	8.86	Spike	P	0 - 30
1883507	Parathion Ethyl	11.4	Spike	P	0 - 30
1883507	Parathion Methyl	9.73	Spike	P	0 - 30
1883507	Pendimethalin	10.3	Spike	P	0 - 30
1883507	Phorate	2.70	Spike	P	0 - 30
1883507	Prometon	13.0	Spike	P	0 - 30
1883507	Prometryn	1.77	Spike	P	0 - 30
1883507	Simazine	0.406	Spike	P	0 - 30
1883507	Terbufos	8.04	Spike	P	0 - 30
1883507	Terbuthylazine	11.3	Spike	P	0 - 30
LFB	Acetochlor	6.97	LCS	P	0 - 30
LFB	Alachlor	6.34	LCS	P	0 - 30
LFB	Ametryn	18.3	LCS	P	0 - 30
LFB	Atrazine	0.361	LCS	P	0 - 30
LFB	Atrazine Desethyl	6.75	LCS	P	0 - 30
LFB	Azinphos Methyl	14.8	LCS	P	0 - 30
LFB	Bromacil	4.40	LCS	P	0 - 30
LFB	Butylate	2.94	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	0.691	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	5.41	LCS	P	0 - 30
LFB	Cyanazine	8.14	LCS	P	0 - 30
LFB	Demeton	10.0	LCS	P	0 - 30
LFB	Diazinon	7.64	LCS	P	0 - 30
LFB	Disulfoton	11.7	LCS	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270D
Batch ID: P322438

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	EPTC	9.34	LCS	P	0 - 30
LFB	Ethion	1.40	LCS	P	0 - 30
LFB	Ethoprop	5.83	LCS	P	0 - 30
LFB	Fenamiphos	3.03	LCS	P	0 - 30
LFB	Fipronil	2.68	LCS	P	0 - 30
LFB	Fipronil Sulfide	4.28	LCS	P	0 - 30
LFB	Fipronil Sulfone	8.01	LCS	P	0 - 30
LFB	Fonofos	5.38	LCS	P	0 - 30
LFB	Hexazinone	4.85	LCS	P	0 - 30
LFB	Malathion	4.72	LCS	P	0 - 30
LFB	Metalaxyl	11.9	LCS	P	0 - 30
LFB	Metolachlor	2.76	LCS	P	0 - 30
LFB	Metribuzin	3.48	LCS	P	0 - 30
LFB	Mevinphos	3.11	LCS	P	0 - 30
LFB	Molinate	5.33	LCS	P	0 - 30
LFB	Norflurazon	4.63	LCS	P	0 - 30
LFB	Parathion Ethyl	1.70	LCS	P	0 - 30
LFB	Parathion Methyl	7.62	LCS	P	0 - 30
LFB	Pendimethalin	0.0625	LCS	P	0 - 30
LFB	Phorate	10.3	LCS	P	0 - 30
LFB	Prometon	10.5	LCS	P	0 - 30
LFB	Prometryn	12.8	LCS	P	0 - 30
LFB	Simazine	1.71	LCS	P	0 - 30
LFB	Terbufos	7.16	LCS	P	0 - 30
LFB	Terbuthylazine	6.03	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P322448

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1883804	Aldrin	9.92	Spike	P	0 - 30
1883804	Alpha-BHC	9.84	Spike	P	0 - 30
1883804	Alpha-Chlordane	6.95	Spike	P	0 - 30
1883804	Beta-BHC	5.08	Spike	P	0 - 30
1883804	Carbophenothion	6.91	Spike	P	0 - 30
1883804	Chlorothalonil	31.6	Spike	F	0 - 30
1883804	Cypermethrin	3.80	Spike	P	0 - 30
1883804	DDD-p,p'	4.86	Spike	P	0 - 30
1883804	DDE-p,p'	2.16	Spike	P	0 - 30
1883804	DDT-p,p'	2.30	Spike	P	0 - 30
1883804	Delta-BHC	5.84	Spike	P	0 - 30
1883804	Dicofol	28.1	Spike	P	0 - 30
1883804	Dieldrin	8.65	Spike	P	0 - 30
1883804	Endosulfan I	4.94	Spike	P	0 - 30
1883804	Endosulfan II	8.03	Spike	P	0 - 30
1883804	Endosulfan Sulfate	2.76	Spike	P	0 - 30
1883804	Endrin	4.38	Spike	P	0 - 30
1883804	Endrin Aldehyde	4.72	Spike	P	0 - 30
1883804	Endrin Ketone	6.19	Spike	P	0 - 30
1883804	Gamma-BHC	3.42	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270D
Batch ID: P322448

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1883804	Gamma-Chlordane	6.95	Spike	P	0 - 30
1883804	Heptachlor	6.76	Spike	P	0 - 30
1883804	Heptachlor Epoxide	4.65	Spike	P	0 - 30
1883804	Methoxychlor	7.50	Spike	P	0 - 30
1883804	Mirex	4.42	Spike	P	0 - 30
1883804	Permethrin	1.91	Spike	P	0 - 30
1883804	Trifluralin	7.34	Spike	P	0 - 30
LFB	Aldrin	3.80	LCS	P	0 - 30
LFB	Alpha-BHC	7.58	LCS	P	0 - 30
LFB	Alpha-Chlordane	3.80	LCS	P	0 - 30
LFB	Beta-BHC	11.8	LCS	P	0 - 30
LFB	Carbophenothion	57.0	LCS	F	0 - 30
LFB	Chlorothalonil	25.5	LCS	P	0 - 30
LFB	Cypermethrin	0.636	LCS	P	0 - 30
LFB	DDD-p,p'	11.8	LCS	P	0 - 30
LFB	DDE-p,p'	13.5	LCS	P	0 - 30
LFB	DDT-p,p'	8.53	LCS	P	0 - 30
LFB	Delta-BHC	14.2	LCS	P	0 - 30
LFB	Dicofol	10.2	LCS	P	0 - 30
LFB	Dieldrin	5.69	LCS	P	0 - 30
LFB	Endosulfan I	0.116	LCS	P	0 - 30
LFB	Endosulfan II	7.92	LCS	P	0 - 30
LFB	Endosulfan Sulfate	13.8	LCS	P	0 - 30
LFB	Endrin	5.85	LCS	P	0 - 30
LFB	Endrin Aldehyde	1.99	LCS	P	0 - 30
LFB	Endrin Ketone	2.32	LCS	P	0 - 30
LFB	Gamma-BHC	9.75	LCS	P	0 - 30
LFB	Gamma-Chlordane	3.80	LCS	P	0 - 30
LFB	Heptachlor	2.43	LCS	P	0 - 30
LFB	Heptachlor Epoxide	1.93	LCS	P	0 - 30
LFB	Methoxychlor	0.372	LCS	P	0 - 30
LFB	Mirex	9.62	LCS	P	0 - 30
LFB	Permethrin	2.85	LCS	P	0 - 30
LFB	Trifluralin	0.756	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P322448

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1883542	Chlordane	0.000948	Spike	P	0 - 30
1883542	Toxaphene	26.8	Spike	P	0 - 30
LFB	Chlordane	8.29	LCS	P	0 - 30
LFB	Toxaphene	14.8	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P322049

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1882583	Pyraclostrobin	8.37	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P322292

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1884283	Glyphosate	4.28	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P322334

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1883637	Color (true)	4.00	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P322803

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1883911	Total Alkalinity	3.47	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P322947

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1883854	TDS	0.601	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P322806

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1883911	Fluoride	0.477	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P322430

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1883696	Organic Carbon	1.23	Spike	P	0 - 20

Reference Method: USGS O-2060-01
Batch ID: P322144

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1883627	2,4-D	22.1	Spike	P	0 - 30
1883627	Acetaminophen	4.58	Spike	P	0 - 30
1883627	Bentazon	8.87	Spike	P	0 - 30
1883627	Carbamazepine	15.6	Spike	P	0 - 30
1883627	Diuron	2.51	Spike	P	0 - 30
1883627	Fenuron	9.68	Spike	P	0 - 30
1883627	Fluridone	12.4	Spike	P	0 - 30
1883627	Imidacloprid	14.1	Spike	P	0 - 30
1883627	Linuron	38.6	Spike	F	0 - 30

Quality Assurance Report
Precision

Reference Method: USGS O-2060-01
Batch ID: P322144

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1883627	MCPP	17.0	Spike	P	0 - 30
1883627	Primidone	10.1	Spike	P	0 - 30
1883627	Triclopyr	1.71	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: 1883723
Field Sample ID: G2SD032717-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Glyphosate 13C 15N	51.8	P	50 - 150
USGS O-2060-01	2,4-D-d3	112	P	40 - 150
USGS O-2060-01	Acetaminophen-d4	76.8	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	56.2	P	40 - 160
USGS O-2060-01	Diuron-d6	42.4	P	40 - 150
USGS O-2060-01	Primidone-d5	54.0	P	40 - 150

Lab Sample ID: 1883724
Field Sample ID: G2SD032717-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Diuron-d6	73.8	P	40 - 150

Lab Sample ID: 1883726
Field Sample ID: G2SD032717-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	53.2	P	51 - 123
EPA 8270D	Tetrachloro-m-xylene	47.4	P	31 - 111
EPA 8276	Decachlorobiphenyl	45.6	P	41 - 106

Lab Sample ID: 1883727
Field Sample ID: G2SD032717-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	69.9	P	62 - 132
EPA 8270D	Simazine-d10	95.9	P	72 - 127

Lab Sample ID: 1883728
Field Sample ID: G2SD032717-3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	57.1	P	51 - 123
EPA 8270D	Tetrachloro-m-xylene	47.2	P	31 - 111
EPA 8276	Decachlorobiphenyl	47.4	P	41 - 106

Quality Assurance Report
Surrogates

Lab Sample ID: 1883729
Field Sample ID: G2SD032717-4

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	60.3	P	51 - 123
EPA 8270D	Tetrachloro-m-xylene	55.0	P	31 - 111
EPA 8276	Decachlorobiphenyl	52.7	P	41 - 106

Lab Sample ID: 1883730
Field Sample ID: G2SD032717-5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	51.6	P	51 - 123
EPA 8270D	Tetrachloro-m-xylene	47.0	P	31 - 111
EPA 8276	Decachlorobiphenyl	48.7	P	41 - 106

Lab Sample ID: 1883731
Field Sample ID: G2SD032717-3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	66.6	P	62 - 132
EPA 8270D	Simazine-d10	81.7	P	72 - 127

Lab Sample ID: 1883732
Field Sample ID: G2SD032717-4

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	81.4	P	62 - 132
EPA 8270D	Simazine-d10	88.5	P	72 - 127

Lab Sample ID: 1883733
Field Sample ID: G2SD032717-5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	78.4	P	62 - 132
EPA 8270D	Simazine-d10	93.3	P	72 - 127

Quality Assurance Report
Calibration Verification

Reference Method: SM 2120 B
Run ID: A75415
Included Lab Sample IDs: 1883714, 1883715

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A75426
Included Lab Sample IDs: 1883718, 1883719

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.3	97.3	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A75437
Included Lab Sample IDs: 1883716, 1883717

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

Reference Method: SM 5310 B-00
Run ID: A75441
Included Lab Sample IDs: 1883716, 1883717

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.2	95.9	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A75454
Included Lab Sample IDs: 1883714, 1883715

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

Reference Method: EPA 8321B
Run ID: A75455
Included Lab Sample IDs: 1883724

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraclostrobin	96.4	104	P/P	60 - 150

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A75458
Included Lab Sample IDs: 1883716, 1883717

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	104	106	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A75463
Included Lab Sample IDs: 1883716, 1883717

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.0	97.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A75469
Included Lab Sample IDs: 1883716, 1883717

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	107	P/P	90 - 110
Kjeldahl Nitrogen	104	104	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A75487
Included Lab Sample IDs: 1883723

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A75487
Included Lab Sample IDs: 1883723

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Glyphosate	92.0	98.4	P/P	70 - 130

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A75525
Included Lab Sample IDs: 1883751, 1883752

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	101	P/P	90 - 110
Iron	103	103	P/P	90 - 110
Magnesium	102	103	P/P	90 - 110
Potassium	101	101	P/P	90 - 110
Sodium	99.4	98.4	P/P	90 - 110
Zinc	100	101	P/P	90 - 110

Reference Method: USGS O-2060-01
Run ID: A75529
Included Lab Sample IDs: 1883723

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	111	119	P/P	50 - 150
Bentazon	95.2	102	P/P	50 - 150
MCPP	109	108	P/P	50 - 150
Triclopyr	103	103	P/P	50 - 150

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A75535
Included Lab Sample IDs: 1883751, 1883752

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	100	101	P/P	90 - 110
Cadmium	99.7	97.8	P/P	90 - 110
Chromium	100	98.4	P/P	90 - 110
Copper	103	99.2	P/P	90 - 110
Lead	103	101	P/P	90 - 110
Nickel	103	99.8	P/P	90 - 110
Silver	104	102	P/P	90 - 110

Reference Method: SM 2320 B-97
Run ID: A75578
Included Lab Sample IDs: 1883714, 1883715

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	104	107	P/P	90 - 110
Total Alkalinity	107	105	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Run ID: A75578
Included Lab Sample IDs: 1883714, 1883715

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

Quality Assurance Report
Calibration Verification

Reference Method: SM 4500 F-C-97
Run ID: A75578
Included Lab Sample IDs: 1883714, 1883715

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

Reference Method: EPA 8270D
Run ID: A75598
Included Lab Sample IDs: 1883727, 1883731, 1883732, 1883733

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	99.2		P	80 - 120
Alachlor	103		P	80 - 120
Ametryn	102		P	80 - 120
Atrazine	99.8		P	80 - 120
Atrazine Desethyl	94.4		P	80 - 120
Azinphos Methyl	99.2		P	80 - 120
Bromacil	108		P	80 - 120
Butylate	98.9		P	80 - 120
Chlorpyrifos Ethyl	98.8		P	80 - 120
Chlorpyrifos Methyl	98.2		P	80 - 120
Cyanazine	98.7		P	80 - 120
Demeton	98.6		P	80 - 120
Diazinon	99.2		P	80 - 120
Disulfoton	94.3		P	80 - 120
EPTC	103		P	80 - 120
Ethion	95.8		P	80 - 120
Ethoprop	97.8		P	80 - 120
Fenamiphos	94.6		P	80 - 120
Fipronil	98.8		P	80 - 120
Fipronil Sulfide	98.5		P	80 - 120
Fipronil Sulfone	101		P	80 - 120
Fonofos	97.8		P	80 - 120
Hexazinone	99.4		P	80 - 120
Malathion	96.6		P	80 - 120
Metalaxyl	102		P	80 - 120
Metolachlor	103		P	80 - 120
Metribuzin	96.4		P	80 - 120
Mevinphos	106		P	80 - 120
Molinate	103		P	80 - 120
Norflurazon	101		P	80 - 120
Parathion Ethyl	98.3		P	80 - 120
Parathion Methyl	93.9		P	80 - 120
Pendimethalin	89.0		P	80 - 120
Phorate	94.9		P	80 - 120
Prometon	103		P	80 - 120
Prometryn	95.9		P	80 - 120
Simazine	96.6		P	80 - 120
Terbufos	91.3		P	80 - 120
Terbuthylazine	101		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270D
Run ID: A75603
Included Lab Sample IDs: 1883732

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	100		P	80 - 120

Reference Method: USGS O-2060-01
Run ID: A75606
Included Lab Sample IDs: 1883723

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetaminophen	127	121	P/P	60 - 150
Carbamazepine	143	143	P/P	60 - 150
Diuron	109	125	P/P	60 - 150
Fenuron	111	112	P/P	60 - 150
Fluridone	104	107	P/P	60 - 150
Imidacloprid	110	100	P/P	60 - 150
Linuron	148	108	P/P	60 - 150
Primidone	111	116	P/P	60 - 150

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A75640
Included Lab Sample IDs: 1883714, 1883715

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	101	P/P	90 - 110
Sulfate	98.9	93.8	P/P	90 - 110

Reference Method: EPA 8276
Run ID: A75671
Included Lab Sample IDs: 1883726, 1883728, 1883729, 1883730

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	100		P	80 - 120
Chlordane	97.6		P	80 - 120
Toxaphene	102		P	80 - 120
Toxaphene	95.2		P	80 - 120

Reference Method: EPA 8270D
Run ID: A75678
Included Lab Sample IDs: 1883726, 1883728, 1883729, 1883730

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	95.8		P	80 - 120
Alpha-BHC	99.1		P	80 - 120
Alpha-Chlordane	96.3		P	80 - 120
Beta-BHC	103		P	80 - 120
Carbophenothion	82.7		P	80 - 120
Chlorothalonil	90.1		P	80 - 120
Cypermethrin	90.1		P	80 - 120
DDD-p,p'	97.6		P	80 - 120
DDE-p,p'	97.4		P	80 - 120
DDT-p,p'	102		P	80 - 120
Delta-BHC	93.7		P	80 - 120
Dicofol	109		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270D
Run ID: A75678
Included Lab Sample IDs: 1883726, 1883728, 1883729, 1883730

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dieldrin	95.8		P	80 - 120
Endosulfan I	92.9		P	80 - 120
Endosulfan II	84.0		P	80 - 120
Endosulfan Sulfate	95.7		P	80 - 120
Endrin	83.4		P	80 - 120
Endrin Aldehyde	81.4		P	80 - 120
Endrin Ketone	93.3		P	80 - 120
Gamma-BHC	101		P	80 - 120
Gamma-Chlordane	96.3		P	80 - 120
Heptachlor	97.3		P	80 - 120
Heptachlor Epoxide	95.7		P	80 - 120
Methoxychlor	104		P	80 - 120
Mirex	98.0		P	80 - 120
Permethrin	94.6		P	80 - 120
Trifluralin	88.5		P	80 - 120

Reference Method: EPA 8270D
Run ID: A75689
Included Lab Sample IDs: 1883728, 1883730

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
DDD-p,p'	96.9		P	80 - 120

* Pass/Fail determinations are made for each bracketing calibration verification check.
Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.
Where they are different, both control limits are provided.

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision		
						LCS	SMP	MS
EPA 180.1 Rev. 2.0	Turbidity						0.0	
EPA 200.7 Rev. 4.4	Calcium	94.8	101	104				1.14
	Iron	107	110	108	107			1.25
	Magnesium	94.9	105	104				0.386
	Potassium	102	103	101	99.5			1.20
	Sodium	103	102	102	102			0.167
	Zinc	101	102	98.1	100			2.41
EPA 200.8 Rev. 5.4	Arsenic	102	102	95.4	97.6			2.29
	Cadmium	98.3	94.0	92.9	102			1.10
	Chromium	97.9	99.2	93.5	95.3			1.94
	Copper	99.1	97.4	90.9	92.2			1.41
	Lead	102	104	97.5	98.4			0.972
	Nickel	102	97.2	91.4	93.9			2.64
	Silver	104	104	101	102			1.41
EPA 300.0 Rev. 2.1	Chloride	102	99.8	100			0.0043	
	Sulfate	99.1	99.4	97.7			4.25	
EPA 350.1 Rev. 2.0	Ammonia-N	101	107	104				2.76
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	106	102	98.2				2.23

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision		
						LCS	SMP	MS
EPA 353.2 Rev. 2.0	NO2NO3-N	101		100	100			0.0
EPA 365.1 Rev. 2.0	Total-P	109		106	104			2.12
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101		95.9	97.4			1.39
EPA 8270D	Acetochlor	84.6	90.7	96.6	86.8	6.97		10.7
	Alachlor	84.7	90.3	100	90.5	6.34		10.2
	Aldrin	47.3	45.6	55.8	50.5	3.80		9.92
	Alpha-BHC	71.0	76.6	79.4	72.0	7.58		9.84
	Alpha-Chlordane	66.4	69.0	74.2	69.2	3.80		6.95
	Ametryn	95.9	115	141	124	18.3		13.3
	Atrazine	92.7	93.1	108	92.4	0.361		3.83
	Atrazine Desethyl	61.5	65.8	53.2	55.4	6.75		3.46
	Azinphos Methyl	91.1	106	104	99.2	14.8		4.82
	Beta-BHC	81.8	92.1	87.8	83.4	11.8		5.08
	Bromacil	81.4	77.9	108	85.3	4.40		23.2
	Butylate	54.9	56.5	44.1	38.2	2.94		14.4
	Carbophenothion	45.2	25.2	84.6	79.0	57.0		6.91
	Chlorothalonil	79.5	103	61.6	84.7	25.5		31.6
	Chlorpyrifos Ethyl	84.3	83.7	83.4	77.8	0.691		6.97
	Chlorpyrifos Methyl	77.6	81.9	87.1	77.7	5.41		11.4
	Cyanazine	91.8	99.5	106	98.9	8.14		7.00
	Cypermethrin	75.5	75.0	71.3	74.1	0.636		3.80
	DDD-p,p'	73.6	82.8	84.0	80.0	11.8		4.86
	DDE-p,p'	71.1	81.4	80.3	78.6	13.5		2.16
	DDT-p,p'	84.0	91.5	83.2	81.3	8.53		2.30
	Delta-BHC	88.4	102	105	98.7	14.2		5.84
	Demeton	84.6	93.5	116	112	10.0		2.81
	Diazinon	82.4	89.0	102	90.8	7.64		11.5
	Dicofol	78.0	70.4	76.5	57.6	10.2		28.1
	Dieldrin	69.6	73.6	90.8	80.0	5.69		8.65
	Disulfoton	81.1	91.2	88.2	84.1	11.7		4.72
	Endosulfan I	74.0	74.0	79.8	76.0	0.116		4.94
	Endosulfan II	78.7	85.1	91.9	84.8	7.92		8.03
	Endosulfan Sulfate	73.3	84.1	73.7	71.7	13.8		2.76
	Endrin	64.6	61.0	68.7	65.8	5.85		4.38
	Endrin Aldehyde	71.3	72.8	68.7	72.0	1.99		4.72
	Endrin Ketone	98.6	101	106	99.9	2.32		6.19
	EPTC	57.9	52.7	47.2	43.3	9.34		8.56
	Ethion	90.0	88.8	86.2	76.3	1.40		12.2
	Ethoprop	74.8	79.3	99.9	92.4	5.83		7.85
	Fenamiphos	101	97.9	85.7	78.8	3.03		8.43
	Fipronil	94.1	96.6	105	93.9	2.68		11.1
	Fipronil Sulfide	89.9	86.2	81.8	75.4	4.28		8.07
	Fipronil Sulfone	89.3	82.4	80.7	68.5	8.01		12.3
	Fonofos	72.7	76.7	90.7	87.0	5.38		4.17
	Gamma-BHC	71.7	79.1	87.1	84.2	9.75		3.42
	Gamma-Chlordane	66.4	69.0	74.2	69.2	3.80		6.95
	Heptachlor	61.9	63.5	65.2	61.0	2.43		6.76
	Heptachlor Epoxide	69.8	71.1	76.9	73.4	1.93		4.65
	Hexazinone	90.8	86.5	91.3	82.0	4.85		10.8
	Malathion	88.7	93.0	96.4	86.0	4.72		11.4
	Metalaxyl	82.2	92.7	91.7	83.0	11.9		9.97
	Methoxychlor	79.4	79.7	81.0	75.2	0.372		7.50
	Metolachlor	90.0	92.6	99.2	89.5	2.76		9.75
	Metribuzin	92.5	95.8	107	101	3.48		5.43

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision		
						LCS	SMP	MS
EPA 8270D	Mevinphos	72.9	75.2	102	106	3.11		3.24
	Mirex	56.1	61.8	64.4	61.6	9.62		4.42
	Molinate	62.2	59.0	61.4	57.3	5.33		6.92
	Norflurazon	92.5	88.3	84.1	77.0	4.63		8.86
	Parathion Ethyl	87.7	86.3	96.7	86.3	1.70		11.4
	Parathion Methyl	81.2	87.6	102	92.8	7.62		9.73
	Pendimethalin	88.0	88.0	102	91.9	0.0625		10.3
	Permethrin	72.4	70.4	71.9	70.5	2.85		1.91
	Phorate	76.1	84.4	104	101	10.3		2.70
	Prometon	90.2	100	114	99.9	10.5		13.0
	Prometryn	89.6	102	91.2	89.6	12.8		1.77
	Simazine	96.6	94.9	90.8	91.2	1.71		0.406
	Terbufos	71.5	76.8	93.3	86.0	7.16		8.04
	Terbuthylazine	91.4	86.1	95.9	85.6	6.03		11.3
	Trifluralin	73.3	72.7	84.8	78.8	0.756		7.34
EPA 8276	Chlordane	98.4	107	69.2	69.2	8.29		0.0009
	Toxaphene	115	133	66.7	50.9	14.8		26.8
EPA 8321B	Glyphosate	107		82.4	86.0			4.28
	Pyraclostrobin	74.8		89.6	82.4			8.37
SM 2120 B	Color (true)						4.00	
SM 2320 B-97	Total Alkalinity	104					3.47	
SM 2540 C-97	TDS						0.601	
SM 4500 F-C-97	Fluoride	100		102	103			0.477
SM 5310 B-00	Organic Carbon	97.9		105				1.23
USGS O-2060-01	2,4-D	105		156	122			22.1
	Acetaminophen	66.4		80.4	76.8			4.58
	Bentazon	125						8.87
	Carbamazepine	111		59.6	50.8			15.6
	Diuron	78.4		47.2	48.4			2.51
	Fenuron	85.2		52.0	47.2			9.68
	Fluridone	78.0		40.8	48.8			12.4
	Imidacloprid	83.6		109	94.8			14.1
	Linuron	82.8		54.4	80.4			38.6
	MCPP	96.4		132	112			17.0
	Primidone	86.0		60.0	66.4			10.1
	Triclopyr	109						1.71

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1883714, 1883715
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1883751, 1883752
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1883751, 1883752
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1883714, 1883715
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1883714, 1883715
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1883716, 1883717
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1883716, 1883717

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1883716, 1883717
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1883716, 1883717
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1883718, 1883719
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	1883726, 1883728, 1883729, 1883730
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1883727, 1883731, 1883732, 1883733
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	1883726, 1883728, 1883729, 1883730
EPA 8321B / E31780	Glyphosate in water matrices by HPLC/MS/MS	1883723
EPA 8321B / E31780	Pyraclostrobin in water matrices by HPLC/MS/MS	1883724
SM 2120 B / E31780	True Color measured at 450 nm	1883714, 1883715
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1883714, 1883715
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1883714, 1883715
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1883714, 1883715
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1883714, 1883715
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1883716, 1883717
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1883723
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1883723

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	03/28/2017			03/28/2017 16:08	Blanca Fach	1883714, 1883715
EPA 200.7 Rev. 4.4	03/28/2017	03/30/2017	Elliott D. Healy	03/31/2017	Martin Acosta	1883751, 1883752
EPA 200.8 Rev. 5.4	03/28/2017	03/30/2017	Elliott D. Healy	04/03/2017	Betina Topolski	1883751, 1883752
EPA 300.0 Rev. 2.1	03/28/2017			04/07/2017	Ping Hua	1883714, 1883715
EPA 350.1 Rev. 2.0	03/28/2017			03/29/2017	Julie Michelle Frank	1883716, 1883717
EPA 351.2 Rev. 2.0	03/28/2017	03/29/2017	Adrian Shelby	03/30/2017	Joseph Suarez	1883716, 1883717
EPA 353.2 Rev. 2.0	03/28/2017			03/30/2017	Beverly Y. Sanders	1883716, 1883717
EPA 365.1 Rev. 2.0	03/28/2017	03/29/2017	Vijayalakshmi Reddy	03/30/2017	Christopher Armour	1883716, 1883717
EPA 365.1 Rev. 2.0 dissolved	03/28/2017			03/28/2017 16:45	Virginia P. Brown	1883718
	03/28/2017			03/28/2017 16:46	Virginia P. Brown	1883719
EPA 8270D	03/28/2017	03/30/2017	Fe-Val Siddell	04/01/2017	Irina Carbone	1883727, 1883731, 1883732, 1883733
	03/28/2017	03/30/2017	Fe-Val Siddell	04/03/2017	Irina Carbone	1883732
	03/28/2017	03/30/2017	John Kaba	04/03/2017	Vandana T. Nagar	1883726, 1883728, 1883729, 1883730
	03/28/2017	03/30/2017	John Kaba	04/07/2017	Vandana T. Nagar	1883728, 1883730
EPA 8276	03/28/2017	03/30/2017	John Kaba	04/04/2017	Vandana T. Nagar	1883726, 1883728, 1883729, 1883730
EPA 8321B	03/28/2017	03/28/2017	Hoor Shaik	03/31/2017	Juyoung Kim	1883724
	03/28/2017	03/31/2017	Mohammad Ghaffari	03/31/2017	Mohammad Ghaffari	1883723
SM 2120 B	03/28/2017			03/28/2017 15:31	Julie Michelle Frank	1883714
	03/28/2017			03/28/2017 15:32	Julie Michelle Frank	1883715
SM 2320 B-97	03/28/2017			04/05/2017	Dale L. Simmons	1883714, 1883715
SM 2540 C-97	03/28/2017			03/30/2017	Sima Feizi	1883714, 1883715
SM 2540 D-97	03/28/2017			03/30/2017	Sima Feizi	1883714, 1883715
SM 4500 F-C-97	03/28/2017			04/05/2017	Dale L. Simmons	1883714, 1883715
SM 5310 B-00	03/28/2017			03/29/2017	Julie Michelle Frank	1883716, 1883717
USGS O-2060-01	03/28/2017	03/29/2017	Hoor Shaik	03/30/2017	Juyoung Kim	1883723
	03/28/2017	03/29/2017	Hoor Shaik	04/02/2017	Juyoung Kim	1883723