

Chemical Analysis Report

NE-DIST-2018-01-24-01

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

Event Description: **Gville_2018**
Request ID: **RQ-2018-01-22-10**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way W
Suite 100
Jacksonville, FL 32256-7577
Attn: Nicole Frederick

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: Thekkekalathil Chandrasekhar, Chemist Administrator Date Certified: 12-FEB-2018 14:50



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

Collection Date/Time: 01/23/2018 09:40

Field ID: 20030112

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1961481	EPA 180.1 Rev. 2.0	Turbidity	2.9		NTU	P338719	
	EPA 300.0 Rev. 2.1	Chloride	13		mg Cl/L	P338845	
		Sulfate	0.83		mg SO4/L	P338847	
	SM 2120 B	Color (true)	280		PCU	P338730	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P338925	
	SM 2540 C-97	TDS	73		mg/L	P339138	
	SM 2540 D-97	TSS	3	I	mg/L	P339360	
	SM 4500 F-C-97	Fluoride	0.064	I	mg F/L	P339358	
1961485	EPA 350.1 Rev. 2.0	Ammonia-N	0.011		mg N/L	P339038	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.89		mg N/L	P338742	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.013		mg N/L	P338782	
	EPA 365.1 Rev. 2.0	Total-P	0.19		mg P/L	P338878	
	SM 5310 B-00	Organic Carbon	32		mg C/L	P339205	
1961489	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.17		mg P/L	P338757	

Ref. Method and Comment:

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

EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

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

Collection Date/Time: 01/23/2018 09:40

Field ID: 20030112

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1961512	EPA 8321B	Sucralose**	0.010	U	ug/L	P338739	
	USGS O-2060-01	2,4-D	0.0020	U	ug/L	P338652	
		Diuron	0.0020	U	ug/L	P338652	
		Fenuron	0.0080	U	ug/L	P338652	
		Imidacloprid	0.0020	U	ug/L	P338652	MS
		Bentazon	8.0E-04	U	ug/L	P338652	
		Linuron	0.0040	U	ug/L	P338652	
		Acetaminophen**	0.0080	U	ug/L	P338652	
		MCP	0.0020	U	ug/L	P338652	
		Carbamazepine**	4.0E-04	U	ug/L	P338652	
		Triclopyr**	0.0040	U	ug/L	P338652	
		Primidone**	0.0040	U	ug/L	P338652	
		Fluridone**	4.0E-04	U	ug/L	P338652	

Sample Location: Little Hatchet Creek @ SR 24

Collection Date/Time: 01/23/2018 11:35

Field ID: 20020109

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1961513	EPA 8321B	Sucralose**	0.48		ug/L	P338739	
	USGS O-2060-01	2,4-D	0.0062	I	ug/L	P338652	
		Diuron	0.0047	I	ug/L	P338652	
		Fenuron	0.0098	I	ug/L	P338652	

Field ID: 20020109

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1961513	USGS O-2060-01	Imidacloprid	0.029		ug/L	P338652	MS
		Bentazon	0.020		ug/L	P338652	
		Linuron	0.0040	U	ug/L	P338652	
		Acetaminophen**	0.028	I	ug/L	P338652	
		MCPD	0.0020	U	ug/L	P338652	
		Carbamazepine**	4.0E-04	U	ug/L	P338652	
		Triclopyr**	0.0040	U	ug/L	P338652	
		Primidone**	0.011	I	ug/L	P338652	
		Fluridone**	4.0E-04	U	ug/L	P338652	

Sample Location: Calf Pond-Center

Collection Date/Time: 01/23/2018 12:05

Field ID: G1NE0862

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1961482	EPA 180.1 Rev. 2.0	Turbidity	4.0		NTU	P338719	
	EPA 300.0 Rev. 2.1	Chloride	13		mg Cl/L	P338845	
		Sulfate	9.1		mg SO4/L	P338847	
	SM 2120 B	Color (true)	120		PCU	P338730	
	SM 2320 B-97	Total Alkalinity	65		mg CaCO3/L	P338925	
	SM 2540 C-97	TDS	133		mg/L	P339138	
	SM 2540 D-97	TSS	2	I	mg/L	P339360	
	SM 4500 F-C-97	Fluoride	0.13		mg F/L	P339358	
1961486	EPA 350.1 Rev. 2.0	Ammonia-N	0.035		mg N/L	P339038	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.71		mg N/L	P338742	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.14		mg N/L	P338782	
	EPA 365.1 Rev. 2.0	Total-P	0.12		mg P/L	P338878	
	SM 5310 B-00	Organic Carbon	16		mg C/L	P339205	
1961490	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.069		mg P/L	P338757	

Ref. Method and Comment:

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

EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Sunshine Lake-Center

Collection Date/Time: 01/23/2018 10:25

Field ID: G1NE0857

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1961483	EPA 180.1 Rev. 2.0	Turbidity	1.4		NTU	P338719	
	EPA 300.0 Rev. 2.1	Chloride	7.4		mg Cl/L	P338845	
		Sulfate	1.1		mg SO4/L	P338847	
	SM 2120 B	Color (true)	160		PCU	P338730	
	SM 2320 B-97	Total Alkalinity	16		mg CaCO3/L	P338925	
	SM 2540 C-97	TDS	65		mg/L	P339139	
	SM 2540 D-97	TSS	2	I	mg/L	P339361	
	SM 4500 F-C-97	Fluoride	0.084	I	mg F/L	P339358	
1961487	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P339038	

Field ID: G1NE0857

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1961487	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.99		mg N/L	P338742	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.47		mg N/L	P338782	
	EPA 365.1 Rev. 2.0	Total-P	0.34		mg P/L	P338879	
	SM 5310 B-00	Organic Carbon	18		mg C/L	P339205	
1961491	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.28		mg P/L	P338757	

Ref. Method and Comment:

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

EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Lake Alice Center-from bridge

Collection Date/Time: 01/23/2018 13:10

Field ID: 20020052

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1961484	EPA 180.1 Rev. 2.0	Turbidity	2.2		NTU	P338720	
	EPA 300.0 Rev. 2.1	Chloride	21		mg Cl/L	P338845	
		Sulfate	34		mg SO4/L	P338847	
	SM 2120 B	Color (true)	25	A	PCU	P338731	
	SM 2320 B-97	Total Alkalinity	69	A	mg CaCO3/L	P338925	
	SM 2540 C-97	TDS	160		mg/L	P339139	
	SM 2540 D-97	TSS	2	I	mg/L	P339361	
	SM 4500 F-C-97	Fluoride	0.28		mg F/L	P339358	
1961488	EPA 350.1 Rev. 2.0	Ammonia-N	0.033		mg N/L	P339038	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.44		mg N/L	P338742	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.027		mg N/L	P338782	
	EPA 365.1 Rev. 2.0	Total-P	0.40		mg P/L	P338879	
	SM 5310 B-00	Organic Carbon	5.8		mg C/L	P339205	
1961492	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.34		mg P/L	P338755	

Ref. Method and Comment:

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

EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Lake Alice outlet @ Gale Lemerand Dr

Collection Date/Time: 01/23/2018 13:40

Field ID: G3NE0010

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1961493	EPA 180.1 Rev. 2.0	Turbidity	5.6	A	NTU	P338720	
	EPA 300.0 Rev. 2.1	Chloride	8.4		mg Cl/L	P338845	
		Sulfate	15		mg SO4/L	P338847	
	SM 2120 B	Color (true)	34		PCU	P338731	
	SM 2320 B-97	Total Alkalinity	41		mg CaCO3/L	P339015	
	SM 2540 C-97	TDS	81	A	mg/L	P339139	
	SM 2540 D-97	TSS	5	IA	mg/L	P339361	
	SM 4500 F-C-97	Fluoride	0.15		mg F/L	P339020	
1961494	EPA 350.1 Rev. 2.0	Ammonia-N	0.020		mg N/L	P339038	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.39		mg N/L	P338742	

Field ID: G3NE0010

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1961494	EPA 353.2 Rev. 2.0	NO2NO3-N	0.14		mg N/L	P338782	
	EPA 365.1 Rev. 2.0	Total-P	0.36		mg P/L	P338879	
	SM 5310 B-00	Organic Carbon	5.8		mg C/L	P339205	
1961495	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.27		mg P/L	P338757	
1961510	EPA 8321B	Glyphosate**	0.31	I	ug/L	P338691	
		AMPA**	0.18	I	ug/L	P338691	
		Pyraclostrobin**	0.0020	U	ug/L	P338652	
		Sucralose**	0.46		ug/L	P338739	
	USGS O-2060-01	2,4-D	0.0047	I	ug/L	P338652	
		Diuron	0.024		ug/L	P338652	
		Fenuron	0.014	I	ug/L	P338652	
		Imidacloprid	0.015		ug/L	P338652	MS
		Bentazon	8.0E-04	U	ug/L	P338652	
		Linuron	0.0040	U	ug/L	P338652	
		Acetaminophen**	0.099		ug/L	P338652	
		MCPD	0.0020	U	ug/L	P338652	
		Carbamazepine**	4.0E-04	U	ug/L	P338652	
		Triclopyr**	0.0040	U	ug/L	P338652	
		Primidone**	0.0040	U	ug/L	P338652	
		Fluridone**	4.0E-04	U	ug/L	P338652	
	EPA 8321B	Aldicarb	0.020	U	ug/L	P338652	
		Aldicarb Sulfone	0.0020	U	ug/L	P338652	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P338652	
		Carbaryl	0.0020	U	ug/L	P338652	
		Carbofuran	0.0020	U	ug/L	P338652	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P338652	
		Methiocarb	0.0020	U	ug/L	P338652	
		Methomyl	0.0020	U	ug/L	P338652	
		Oxamyl	0.0020	U	ug/L	P338652	
		Propoxur	0.0020	U	ug/L	P338652	
1961515	EPA 8270D	Aldrin	4.6	UJ	ng/L	P338909	RPD
		Alpha-BHC	2.3	U	ng/L	P338909	
		Beta-BHC	4.6	U	ng/L	P338909	RPD
		Delta-BHC	4.6	U	ng/L	P338909	RPD
		Gamma-BHC	4.6	U	ng/L	P338909	
		Carbophenothion	4.6	U	ng/L	P338909	
		Chlorothalonil	2.3	U	ng/L	P338909	
		Cypermethrin	23	U	ng/L	P338909	
		DDD-p,p'	3.4	U	ng/L	P338909	RPD
		DDE-p,p'	3.4	U	ng/L	P338909	
		DDT-p,p'	3.4	U	ng/L	P338909	RPD
		Dieldrin	4.6	U	ng/L	P338909	
		Endosulfan I	4.6	U	ng/L	P338909	
		Endosulfan II	4.6	U	ng/L	P338909	

Field ID: G3NE0010

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1961515	EPA 8270D	Endosulfan Sulfate	2.3	U	ng/L	P338909	MS, RPD
		Endrin	2.3	U	ng/L	P338909	
		Endrin Aldehyde	2.3	U	ng/L	P338909	
		Heptachlor	1.7	U	ng/L	P338909	
		Heptachlor Epoxide	2.3	U	ng/L	P338909	
		Methoxychlor	4.6	U	ng/L	P338909	
		Mirex	2.3	U	ng/L	P338909	
		Permethrin	11	U	ng/L	P338909	
		Trifluralin	1.1	U	ng/L	P338909	
		Alpha-Chlordane	1.1	U	ng/L	P338909	
		Gamma-Chlordane	1.1	U	ng/L	P338909	
		Endrin Ketone	2.3	U	ng/L	P338909	MS
		Dicofol	34	U	ng/L	P338909	
		Chlordane**	2.9	UJ	ng/L	P338909	SUR
	EPA 8276	Toxaphene**	14	UJ	ng/L	P338909	SUR
	EPA 8270D	Alachlor	0.28	U	ng/L	P338832	
		Ametryn	0.36	U	ng/L	P338832	MS
Atrazine		25		ng/L	P338832		
Atrazine Desethyl		11		ng/L	P338832		
Azinphos Methyl		2.5	U	ng/L	P338832		
Bromacil		42		ng/L	P338832		
Butylate		0.44	U	ng/L	P338832	RPD	
Chlorpyrifos Ethyl		0.28	U	ng/L	P338832		
Chlorpyrifos Methyl		0.11	U	ng/L	P338832		
Demeton		2.2	U	ng/L	P338832		
Diazinon		0.14	U	ng/L	P338832		
Disulfoton		0.55	U	ng/L	P338832		
EPTC		1.4	U	ng/L	P338832	RPD	
Ethion		0.17	U	ng/L	P338832		
Ethoprop		0.11	U	ng/L	P338832		
Fenamiphos		0.28	UJ	ng/L	P338832	LCS, RPD	
Fipronil		2.8		ng/L	P338832		
Fipronil Sulfide		1.6		ng/L	P338832	RPD	
Fipronil Sulfone		4.0		ng/L	P338832	MS, RPD	
Hexazinone		0.55	UJ	ng/L	P338832	LCS	
Malathion		4.2		ng/L	P338832		
Metribuzin		0.28	I	ng/L	P338832		
Mevinphos		0.55	U	ng/L	P338832		
Molinate		0.33	U	ng/L	P338832	RPD	
Norflurazon		0.55	U	ng/L	P338832	RPD	
Pendimethalin		1.1	U	ng/L	P338832		
Phorate		0.28	U	ng/L	P338832		
Prometon		0.99	U	ng/L	P338832		
Prometryn		0.22	U	ng/L	P338832		
Simazine		41		ng/L	P338832		

Field ID: G3NE0010

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1961516	EPA 8270D	Terbufos	0.11	U	ng/L	P338832	LCS, RPD
		Terbuthylazine	0.47	U	ng/L	P338832	
		Fonofos	0.22	U	ng/L	P338832	
		Metalaxyl	0.28	UJ	ng/L	P338832	
		Metolachlor	3.4		ng/L	P338832	
		Acetochlor	0.28	U	ng/L	P338832	
		Cyanazine	0.55	U	ng/L	P338832	
		Parathion Ethyl	0.28	U	ng/L	P338832	
		Parathion Methyl	0.28	U	ng/L	P338832	
1961519	EPA 200.7 Rev. 4.4	Calcium	19.0		mg/L	P338791	
		Iron	170		ug/L	P338791	
		Magnesium	3.12		mg/L	P338791	
		Potassium	1.6		mg/L	P338791	
		Sodium	5.2		mg/L	P338791	
	EPA 200.8 Rev. 5.4	Zinc	22		ug/L	P338791	
		Arsenic	0.49		ug/L	P338791	
		Cadmium	0.021	I	ug/L	P338791	
		Chromium	0.66	I	ug/L	P338791	
		Copper	8.41		ug/L	P338791	
		Lead	1.04		ug/L	P338791	
		Nickel	0.50	I	ug/L	P338791	
		Silver	0.010	U	ug/L	P338791	

Ref. Method and Comment:

SM 2320 B-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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

EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC 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.

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

EPA 200.8 Rev. 5.4: The copper result was confirmed in the undigested sample on 02/02/2018.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P338719

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P338720

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P338791

Component	Result	Code	Units
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Quality Assurance Report Method Blank Results

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P338791

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: P338791

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: P338845

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P338847

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P339038

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P338742

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P338782

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P338878

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P338879

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P338755

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P338757

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

Reference Method: EPA 8270D
Batch ID: P338832

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.32	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.2	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Cyanazine	0.50	U	ng/L
Demeton	2.0	U	ng/L
Diazinon	0.12	U	ng/L
Disulfoton	0.50	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Fenamiphos	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Malathion	0.35	U	ng/L
Metaxyl	0.25	U	ng/L
Metolachlor	0.25	U	ng/L
Metribuzin	0.20	U	ng/L
Mevinphos	0.50	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D
Batch ID: P338832

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

Reference Method: EPA 8270D
Batch ID: P338909

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 8276
Batch ID: P338909

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P338652

Component	Result	Code	Units
3-Hydroxycarbofuran	0.0020	U	ug/L
Aldicarb	0.020	U	ug/L
Aldicarb Sulfone	0.0020	U	ug/L
Aldicarb Sulfoxide	0.0020	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Oxamyl	0.0020	U	ug/L
Propoxur	0.0020	U	ug/L
Pyraclostrobin	0.0020	U	ug/L

Reference Method: EPA 8321B
Batch ID: P338691

Component	Result	Code	Units
AMPA	0.10	U	ug/L
Glyphosate	0.10	U	ug/L

Reference Method: EPA 8321B
Batch ID: P338739

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: SM 2120 B
Batch ID: P338730

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P338731

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P338925

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

Reference Method: SM 2320 B-97
Batch ID: P339015

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

Quality Assurance Report Method Blank Results

Reference Method: SM 2540 C-97
Batch ID: P339138

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P339139

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P339360

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P339361

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P339020

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P339358

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P339205

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

Reference Method: USGS O-2060-01
Batch ID: P338652

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Bentazon	8.0E-04	U	ug/L
Carbamazepine	4.0E-04	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.0080	U	ug/L
Fluridone	4.0E-04	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
MCPP	0.0020	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: USGS O-2060-01
Batch ID: P338652

Component	Result	Code	Units
Primidone	0.0040	U	ug/L
Triclopyr	0.0040	U	ug/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P338791

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	109		P	85 - 115
Iron	108		P	85 - 115
Magnesium	113		P	85 - 115
Potassium	104		P	85 - 115
Sodium	109		P	85 - 115
Zinc	102		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P338791

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	98.1		P	85 - 115
Cadmium	98.9		P	85 - 115
Chromium	99.2		P	85 - 115
Copper	95.3		P	85 - 115
Lead	104		P	85 - 115
Nickel	97.8		P	85 - 115
Silver	99.0		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P338845

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P338847

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P339038

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: P338742

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

Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P338742

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	98.4		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P338782

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO ₂ NO ₃ -N	102		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P338878

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P338879

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P338755

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P338757

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.5		P	90 - 110

Reference Method: EPA 8270D
Batch ID: P338832

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	101	104	P/P	74 - 119
Alachlor	105	107	P/P	75 - 118
Ametryn	109	105	P/P	59 - 137
Atrazine	100	109	P/P	73 - 120
Atrazine Desethyl	63.1	66.0	P/P	19 - 129
Azinphos Methyl	98.7	111	P/P	65 - 181
Bromacil	72.9	75.5	P/P	43 - 123
Butylate	66.9	80.9	P/P	28 - 85.0
Chlorpyrifos Ethyl	97.1	112	P/P	55 - 112
Chlorpyrifos Methyl	86.3	101	P/P	35 - 124
Cyanazine	97.1	90.1	P/P	26 - 262
Demeton	62.7	82.2	P/P	43 - 122
Diazinon	101	105	P/P	72 - 120
Disulfoton	60.7	77.6	P/P	45 - 137
EPTC	66.4	87.4	P/P	28 - 95.0
Ethion	112	121	P/P	63 - 127

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P338832

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ethoprop	83.7	94.2	P/P	63 - 109
Fenamiphos	50.1	70.3	F/P	66 - 136
Fipronil	105	101	P/P	63 - 126
Fipronil Sulfide	111	108	P/P	59 - 123
Fipronil Sulfone	110	106	P/P	56 - 122
Fonofos	87.9	95.8	P/P	64 - 114
Hexazinone	142	158	P/F	49 - 144
Malathion	115	117	P/P	68 - 131
Metalaxyl	33.1	59.5	F/P	57 - 126
Metolachlor	107	111	P/P	75 - 118
Metribuzin	95.2	108	P/P	46 - 169
Mevinphos	81.2	91.7	P/P	34 - 126
Molinate	70.0	88.8	P/P	37 - 101
Norflurazon	92.7	80.2	P/P	63 - 127
Parathion Ethyl	103	103	P/P	78 - 109
Parathion Methyl	101	106	P/P	74 - 123
Pendimethalin	92.3	108	P/P	51 - 130
Phorate	65.3	86.5	P/P	53 - 116
Prometon	98.7	90.5	P/P	66 - 124
Prometryn	102	105	P/P	66 - 124
Simazine	105	110	P/P	62 - 134
Terbufos	81.4	93.1	P/P	59 - 115
Terbuthylazine	107	110	P/P	76 - 113

Reference Method: EPA 8270D
Batch ID: P338909

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	54.7	40.2	P/P	24 - 89.0
Alpha-BHC	88.3	80.6	P/P	58 - 117
Alpha-Chlordane	87.6	75.1	P/P	56 - 115
Beta-BHC	104	83.2	P/P	55 - 137
Carbophenothion	108	91.0	P/P	37 - 145
Chlorothalonil	95.4	90.2	P/P	26 - 163
Cypermethrin	108	94.0	P/P	42 - 156
DDD-p,p'	100	81.8	P/P	59 - 129
DDE-p,p'	88.5	75.3	P/P	52 - 117
DDT-p,p'	90.8	82.9	P/P	48 - 128
Delta-BHC	111	94.6	P/P	59 - 158
Dicofol	70.9	66.7	P/P	19 - 124
Dieldrin	88.0	79.6	P/P	57 - 126
Endosulfan I	90.6	76.7	P/P	59 - 133
Endosulfan II	106	99.0	P/P	58 - 148
Endosulfan Sulfate	91.7	81.8	P/P	56 - 135
Endrin	91.0	74.0	P/P	50 - 140
Endrin Aldehyde	96.3	74.2	P/P	47 - 141
Endrin Ketone	90.9	83.1	P/P	63 - 123
Gamma-BHC	110	98.4	P/P	59 - 132
Gamma-Chlordane	88.4	76.6	P/P	55 - 112
Heptachlor	75.4	66.7	P/P	45 - 102
Heptachlor Epoxide	86.1	76.0	P/P	61 - 116
Methoxychlor	101	93.6	P/P	60 - 133

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P338909

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Mirex	88.0	79.0	P/P	40 - 98.0
Permethrin	103	92.7	P/P	45 - 131
Trifluralin	84.9	77.8	P/P	38 - 179

Reference Method: EPA 8276
Batch ID: P338909

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	75.2	71.5	P/P	47 - 125
Toxaphene	80.4	70.9	P/P	46 - 147

Reference Method: EPA 8321B
Batch ID: P338652

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	108		P	40 - 150
Aldicarb	131		P	30 - 150
Aldicarb Sulfone	109		P	40 - 150
Aldicarb Sulfoxide	117		P	40 - 150
Carbaryl	79.0		P	40 - 150
Carbofuran	80.6		P	40 - 150
Methiocarb	82.6		P	40 - 150
Methomyl	109		P	40 - 150
Oxamyl	99.7		P	40 - 150
Propoxur	79.3		P	40 - 150
Pyraclostrobin	103		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P338691

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
AMPA	106		P	40 - 150
Glyphosate	105		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P338739

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

Reference Method: SM 2320 B-97
Batch ID: P338925

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.4		P	95 - 108

Reference Method: SM 2320 B-97
Batch ID: P339015

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	95 - 108

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P339020

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.1		P	92 - 103

Reference Method: SM 4500 F-C-97
Batch ID: P339358

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.0		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P339205

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.1		P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P338652

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	73.4		P	40 - 150
Acetaminophen	101		P	30 - 150
Bentazon	80.2		P	30 - 150
Carbamazepine	101		P	40 - 150
Diuron	86.8		P	40 - 150
Fenuron	120		P	40 - 150
Fluridone	118		P	40 - 150
Imidacloprid	111		P	40 - 160
Linuron	102		P	40 - 150
MCP	74.7		P	40 - 150
Primidone	120		P	40 - 150
Triclopyr	77.7		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P338791

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1961215	Calcium	107		P	80 - 120
1961215	Iron	112		P	80 - 120
1961215	Magnesium	115		P	80 - 120
1961215	Potassium	104		P	80 - 120
1961215	Sodium	109		P	80 - 120
1961215	Zinc	109		P	80 - 120
1961785	Calcium	106	106	P/P	80 - 120
1961785	Iron	106	106	P/P	80 - 120
1961785	Magnesium	110	111	P/P	80 - 120
1961785	Potassium	109	107	P/P	80 - 120
1961785	Sodium	104	103	P/P	80 - 120
1961785	Zinc	100	102	P/P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P338791

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1961215	Arsenic	99.1		P	80 - 120
1961215	Cadmium	100		P	80 - 120
1961215	Chromium	100		P	80 - 120
1961215	Copper	98.1		P	80 - 120
1961215	Lead	105		P	80 - 120
1961215	Nickel	100		P	80 - 120
1961215	Silver	97.7		P	80 - 120
1961785	Arsenic	98.9	99.3	P/P	80 - 120
1961785	Cadmium	99.2	101	P/P	80 - 120
1961785	Chromium	101	99.2	P/P	80 - 120
1961785	Copper	96.3	96.9	P/P	80 - 120
1961785	Lead	105	106	P/P	80 - 120
1961785	Nickel	100	99.1	P/P	80 - 120
1961785	Silver	98.5	99.7	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P338845

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1961439	Chloride	102		P	90 - 110
1961483	Chloride	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P338847

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1961439	Sulfate	98.6		P	90 - 110
1961483	Sulfate	98.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P339038

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1961494	Ammonia-N	101	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P338742

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1961488	Kjeldahl Nitrogen	97.7	99.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P338782

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1961485	NO2NO3-N	97.4	96.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P338878

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1961441	Total-P	99.2	105	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P338879

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1961555	Total-P	96.1	101	P/P	90 - 110

Reference Method: EPA 8270D
Batch ID: P338832

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1961026	Acetochlor	102	101	P/P	67 - 125
1961026	Alachlor	106	103	P/P	69 - 123
1961026	Ametryn	170	163	F/F	52 - 151
1961026	Atrazine Desethyl	73.2	54.0	P/P	10 - 129
1961026	Azinphos Methyl	129	120	P/P	48 - 200
1961026	Bromacil	95.7	81.8	P/P	46 - 130
1961026	Butylate	32.2	43.8	P/P	10 - 85.0
1961026	Chlorpyrifos Ethyl	108	106	P/P	54 - 115
1961026	Chlorpyrifos Methyl	104	101	P/P	44 - 117
1961026	Cyanazine	163	129	P/P	10 - 262
1961026	Demeton	61.5	64.6	P/P	24 - 145
1961026	Diazinon	95.7	98.0	P/P	66 - 129
1961026	Disulfoton	88.2	83.0	P/P	45 - 139
1961026	EPTC	32.5	46.6	P/P	10 - 86.0
1961026	Ethion	121	118	P/P	59 - 133
1961026	Ethoprop	72.1	69.9	P/P	54 - 116
1961026	Fenamiphos	104	89.7	P/P	55 - 140
1961026	Fipronil	101	77.4	P/P	37 - 142
1961026	Fipronil Sulfide	98.0	66.4	P/P	37 - 130
1961026	Fipronil Sulfone	92.2	16.1	P/F	18 - 143
1961026	Fonofos	92.1	86.5	P/P	55 - 118
1961026	Hexazinone	126	111	P/P	62 - 140
1961026	Malathion	119	109	P/P	64 - 132
1961026	Metalaxyl	126	112	P/P	55 - 129
1961026	Metolachlor	109	110	P/P	56 - 137
1961026	Metribuzin	163	154	P/P	16 - 218
1961026	Mevinphos	69.4	67.0	P/P	34 - 129
1961026	Molinate	41.3	56.0	P/P	16 - 99.0
1961026	Norflurazon	107	78.3	P/P	43 - 135
1961026	Parathion Ethyl	105	108	P/P	71 - 112
1961026	Parathion Methyl	108	107	P/P	65 - 127
1961026	Pendimethalin	108	116	P/P	35 - 159
1961026	Phorate	72.2	73.3	P/P	41 - 129
1961026	Prometon	116	112	P/P	56 - 140
1961026	Prometryn	105	103	P/P	65 - 130
1961026	Simazine	117	120	P/P	54 - 148
1961026	Terbufos	88.1	84.8	P/P	53 - 126
1961026	Terbutylazine	109	107	P/P	73 - 114

Reference Method: EPA 8270D
Batch ID: P338909

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1962128	Aldrin	61.9	46.5	P/P	26 - 96.0
1962128	Alpha-BHC	93.8	84.8	P/P	51 - 123
1962128	Alpha-Chlordane	76.9	60.6	P/P	45 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P338909

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1962128	Beta-BHC	71.6	47.8	P/P	43 - 146
1962128	Carbophenothion	153	137	P/P	26 - 179
1962128	Chlorothalonil	67.2	57.1	P/P	10 - 215
1962128	Cypermethrin	125	104	P/P	35 - 169
1962128	DDD-p,p'	77.2	55.7	P/P	49 - 131
1962128	DDE-p,p'	75.4	62.0	P/P	39 - 127
1962128	DDT-p,p'	72.8	53.5	P/P	49 - 120
1962128	Delta-BHC	91.6	62.7	P/P	49 - 187
1962128	Dicofol	60.2	58.8	P/P	10 - 129
1962128	Dieldrin	74.0	57.8	P/P	46 - 132
1962128	Endosulfan I	85.7	69.5	P/P	57 - 130
1962128	Endosulfan II	81.7	62.0	P/P	52 - 148
1962128	Endosulfan Sulfate	63.4	42.8	P/F	55 - 129
1962128	Endrin	80.8	69.8	P/P	45 - 133
1962128	Endrin Aldehyde	28.0	36.9	P/P	26 - 140
1962128	Endrin Ketone	65.3	49.3	P/F	60 - 125
1962128	Gamma-BHC	93.0	97.2	P/P	50 - 145
1962128	Gamma-Chlordane	79.4	62.2	P/P	44 - 118
1962128	Heptachlor	70.1	52.0	P/P	35 - 106
1962128	Heptachlor Epoxide	77.1	59.7	P/P	52 - 123
1962128	Methoxychlor	81.2	64.8	P/P	54 - 132
1962128	Mirex	75.0	59.5	P/P	36 - 107
1962128	Permethrin	111	90.2	P/P	47 - 135
1962128	Trifluralin	78.2	61.3	P/P	32 - 228

Reference Method: EPA 8276
Batch ID: P338909

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1961515	Chlordane	63.4	65.4	P/P	41 - 134
1961515	Toxaphene	59.9	66.6	P/P	39 - 158

Reference Method: EPA 8321B
Batch ID: P338652

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1961018	3-Hydroxycarbofuran	120	119	P/P	40 - 150
1961018	Aldicarb	129	144	P/P	30 - 150
1961018	Aldicarb Sulfone	132	135	P/P	40 - 150
1961018	Aldicarb Sulfoxide	98.1	103	P/P	40 - 150
1961018	Carbaryl	73.2	84.1	P/P	40 - 150
1961018	Carbofuran	73.8	81.0	P/P	40 - 150
1961018	Methiocarb	77.5	84.4	P/P	40 - 150
1961018	Methomyl	92.4	93.0	P/P	40 - 150
1961018	Oxamyl	100	100	P/P	40 - 150
1961018	Propoxur	66.3	77.5	P/P	40 - 150
1961018	Pyraclostrobin	109	90.5	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P338691

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

Reference Method: EPA 8321B
Batch ID: P338691

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1961018	AMPA	101	102	P/P	40 - 150
1961018	Glyphosate	100	104	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P338739

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1961510	Sucralose	100	119	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P339020

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1961779	Fluoride	97.1	98.0	P/P	91 - 105

Reference Method: SM 4500 F-C-97
Batch ID: P339358

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1961514	Fluoride	97.6	100	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P339205

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1961143	Organic Carbon	98.0	98.7	P/P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P338652

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1961018	2,4-D	66.3	70.6	P/P	40 - 150
1961018	Acetaminophen	126	129	P/P	30 - 150
1961018	Bentazon	48.0	53.8	P/P	30 - 150
1961018	Carbamazepine	101	105	P/P	40 - 150
1961018	Diuron	90.3	94.6	P/P	40 - 150
1961018	Fenuron	97.6	102	P/P	40 - 150
1961018	Fluridone	93.3	109	P/P	40 - 150
1961018	Imidacloprid	161	152	F/P	40 - 160
1961018	Linuron	100	105	P/P	40 - 150
1961018	MCPP	54.1	59.0	P/P	40 - 150
1961018	Primidone	126	134	P/P	40 - 150
1961018	Triclopyr	52.7	58.0	P/P	40 - 150

Quality Assurance Report Precision

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P338719

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961437	Turbidity	1.10	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P338720

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961493	Turbidity	5.40	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P338791

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961785	Calcium	0.495	Spike	P	0 - 20
1961785	Iron	0.557	Spike	P	0 - 20
1961785	Magnesium	0.521	Spike	P	0 - 20
1961785	Potassium	2.20	Spike	P	0 - 20
1961785	Sodium	0.886	Spike	P	0 - 20
1961785	Zinc	1.61	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P338791

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961785	Arsenic	0.396	Spike	P	0 - 20
1961785	Cadmium	1.73	Spike	P	0 - 20
1961785	Chromium	1.54	Spike	P	0 - 20
1961785	Copper	0.658	Spike	P	0 - 20
1961785	Lead	0.644	Spike	P	0 - 20
1961785	Nickel	1.30	Spike	P	0 - 20
1961785	Silver	1.29	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P338845

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961439	Chloride	1.65	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P338847

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961439	Sulfate	2.59	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P339038

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961494	Ammonia-N	1.32	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P338742

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961488	Kjeldahl Nitrogen	1.03	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P338782

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961485	NO2NO3-N	0.966	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P338878

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961441	Total-P	5.16	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P338879

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961555	Total-P	4.25	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P338755

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961492	O-Phosphate-P	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P338757

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961489	O-Phosphate-P	0.805	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P338832

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961026	Acetochlor	0.919	Spike	P	0 - 30
1961026	Alachlor	2.72	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P338832

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961026	Ametryn	4.49	Spike	P	0 - 30
1961026	Atrazine	6.58	Spike	P	0 - 30
1961026	Atrazine Desethyl	22.7	Spike	P	0 - 30
1961026	Azinphos Methyl	6.83	Spike	P	0 - 30
1961026	Bromacil	15.6	Spike	P	0 - 30
1961026	Butylate	30.3	Spike	F	0 - 30
1961026	Chlorpyrifos Ethyl	2.36	Spike	P	0 - 30
1961026	Chlorpyrifos Methyl	2.77	Spike	P	0 - 30
1961026	Cyanazine	23.5	Spike	P	0 - 30
1961026	Demeton	4.88	Spike	P	0 - 30
1961026	Diazinon	2.30	Spike	P	0 - 30
1961026	Disulfoton	5.98	Spike	P	0 - 30
1961026	EPTC	35.7	Spike	F	0 - 30
1961026	Ethion	2.30	Spike	P	0 - 30
1961026	Ethoprop	3.12	Spike	P	0 - 30
1961026	Fenamiphos	15.0	Spike	P	0 - 30
1961026	Fipronil	26.1	Spike	P	0 - 30
1961026	Fipronil Sulfide	34.3	Spike	F	0 - 30
1961026	Fipronil Sulfone	56.3	Spike	F	0 - 30
1961026	Fonofos	6.17	Spike	P	0 - 30
1961026	Hexazinone	11.0	Spike	P	0 - 30
1961026	Malathion	9.06	Spike	P	0 - 30
1961026	Metalaxyl	12.2	Spike	P	0 - 30
1961026	Metolachlor	1.00	Spike	P	0 - 30
1961026	Metribuzin	5.79	Spike	P	0 - 30
1961026	Mevinphos	3.52	Spike	P	0 - 30
1961026	Molinate	30.2	Spike	F	0 - 30
1961026	Norflurazon	31.0	Spike	F	0 - 30
1961026	Parathion Ethyl	3.00	Spike	P	0 - 30
1961026	Parathion Methyl	1.21	Spike	P	0 - 30
1961026	Pendimethalin	6.91	Spike	P	0 - 30
1961026	Phorate	1.46	Spike	P	0 - 30
1961026	Prometon	3.13	Spike	P	0 - 30
1961026	Prometryn	1.67	Spike	P	0 - 30
1961026	Simazine	2.43	Spike	P	0 - 30
1961026	Terbufos	3.81	Spike	P	0 - 30
1961026	Terbuthylazine	1.51	Spike	P	0 - 30
LFB	Acetochlor	3.09	LCS	P	0 - 30
LFB	Alachlor	2.21	LCS	P	0 - 30
LFB	Ametryn	3.76	LCS	P	0 - 30
LFB	Atrazine	8.54	LCS	P	0 - 30
LFB	Atrazine Desethyl	4.43	LCS	P	0 - 30
LFB	Azinphos Methyl	11.7	LCS	P	0 - 30
LFB	Bromacil	3.54	LCS	P	0 - 30
LFB	Butylate	19.1	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	13.8	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	16.1	LCS	P	0 - 30
LFB	Cyanazine	7.38	LCS	P	0 - 30
LFB	Demeton	26.8	LCS	P	0 - 30
LFB	Diazinon	3.77	LCS	P	0 - 30
LFB	Disulfoton	24.5	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P338832

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	EPTC	27.3	LCS	P	0 - 30
LFB	Ethion	7.49	LCS	P	0 - 30
LFB	Ethoprop	11.8	LCS	P	0 - 30
LFB	Fenamiphos	33.6	LCS	F	0 - 30
LFB	Fipronil	3.99	LCS	P	0 - 30
LFB	Fipronil Sulfide	2.97	LCS	P	0 - 30
LFB	Fipronil Sulfone	3.54	LCS	P	0 - 30
LFB	Fonofos	8.66	LCS	P	0 - 30
LFB	Hexazinone	11.2	LCS	P	0 - 30
LFB	Malathion	1.98	LCS	P	0 - 30
LFB	Metalaxyl	57.0	LCS	F	0 - 30
LFB	Metolachlor	4.37	LCS	P	0 - 30
LFB	Metribuzin	12.6	LCS	P	0 - 30
LFB	Mevinphos	12.2	LCS	P	0 - 30
LFB	Molinate	23.7	LCS	P	0 - 30
LFB	Norflurazon	14.4	LCS	P	0 - 30
LFB	Parathion Ethyl	0.0946	LCS	P	0 - 30
LFB	Parathion Methyl	5.18	LCS	P	0 - 30
LFB	Pendimethalin	15.5	LCS	P	0 - 30
LFB	Phorate	27.9	LCS	P	0 - 30
LFB	Prometon	8.63	LCS	P	0 - 30
LFB	Prometryn	3.34	LCS	P	0 - 30
LFB	Simazine	5.07	LCS	P	0 - 30
LFB	Terbufos	13.4	LCS	P	0 - 30
LFB	Terbuthylazine	3.54	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P338909

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1962128	Aldrin	28.5	Spike	P	0 - 30
1962128	Alpha-BHC	10.1	Spike	P	0 - 30
1962128	Alpha-Chlordane	23.7	Spike	P	0 - 30
1962128	Beta-BHC	39.8	Spike	F	0 - 30
1962128	Carbophenothion	10.8	Spike	P	0 - 30
1962128	Chlorothalonil	16.4	Spike	P	0 - 30
1962128	Cypermethrin	18.0	Spike	P	0 - 30
1962128	DDD-p,p'	32.4	Spike	F	0 - 30
1962128	DDE-p,p'	19.5	Spike	P	0 - 30
1962128	DDT-p,p'	30.4	Spike	F	0 - 30
1962128	Delta-BHC	37.6	Spike	F	0 - 30
1962128	Dicofol	2.32	Spike	P	0 - 30
1962128	Dieldrin	24.7	Spike	P	0 - 30
1962128	Endosulfan I	20.9	Spike	P	0 - 30
1962128	Endosulfan II	27.3	Spike	P	0 - 30
1962128	Endosulfan Sulfate	38.9	Spike	F	0 - 30
1962128	Endrin	14.5	Spike	P	0 - 30
1962128	Endrin Aldehyde	27.4	Spike	P	0 - 30
1962128	Endrin Ketone	27.9	Spike	P	0 - 30
1962128	Gamma-BHC	4.50	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P338909

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1962128	Gamma-Chlordane	24.3	Spike	P	0 - 30
1962128	Heptachlor	29.7	Spike	P	0 - 30
1962128	Heptachlor Epoxide	25.3	Spike	P	0 - 30
1962128	Methoxychlor	22.5	Spike	P	0 - 30
1962128	Mirex	23.0	Spike	P	0 - 30
1962128	Permethrin	21.1	Spike	P	0 - 30
1962128	Trifluralin	24.3	Spike	P	0 - 30
LFB	Aldrin	30.6	LCS	F	0 - 30
LFB	Alpha-BHC	9.13	LCS	P	0 - 30
LFB	Alpha-Chlordane	15.4	LCS	P	0 - 30
LFB	Beta-BHC	22.0	LCS	P	0 - 30
LFB	Carbophenothion	17.3	LCS	P	0 - 30
LFB	Chlorothalonil	5.63	LCS	P	0 - 30
LFB	Cypermethrin	13.8	LCS	P	0 - 30
LFB	DDD-p,p'	20.1	LCS	P	0 - 30
LFB	DDE-p,p'	16.1	LCS	P	0 - 30
LFB	DDT-p,p'	9.16	LCS	P	0 - 30
LFB	Delta-BHC	16.0	LCS	P	0 - 30
LFB	Dicofol	5.99	LCS	P	0 - 30
LFB	Dieldrin	10.0	LCS	P	0 - 30
LFB	Endosulfan I	16.6	LCS	P	0 - 30
LFB	Endosulfan II	6.64	LCS	P	0 - 30
LFB	Endosulfan Sulfate	11.4	LCS	P	0 - 30
LFB	Endrin	20.7	LCS	P	0 - 30
LFB	Endrin Aldehyde	26.0	LCS	P	0 - 30
LFB	Endrin Ketone	8.92	LCS	P	0 - 30
LFB	Gamma-BHC	11.1	LCS	P	0 - 30
LFB	Gamma-Chlordane	14.2	LCS	P	0 - 30
LFB	Heptachlor	12.3	LCS	P	0 - 30
LFB	Heptachlor Epoxide	12.6	LCS	P	0 - 30
LFB	Methoxychlor	7.10	LCS	P	0 - 30
LFB	Mirex	10.7	LCS	P	0 - 30
LFB	Permethrin	10.8	LCS	P	0 - 30
LFB	Trifluralin	8.65	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P338909

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961515	Chlordane	3.04	Spike	P	0 - 30
1961515	Toxaphene	10.6	Spike	P	0 - 30
LFB	Chlordane	5.06	LCS	P	0 - 30
LFB	Toxaphene	12.6	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P338652

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961018	3-Hydroxycarbofuran	0.745	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P338652

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961018	Aldicarb	11.0	Spike	P	0 - 30
1961018	Aldicarb Sulfone	2.83	Spike	P	0 - 30
1961018	Aldicarb Sulfoxide	4.63	Spike	P	0 - 30
1961018	Carbaryl	13.9	Spike	P	0 - 30
1961018	Carbofuran	9.36	Spike	P	0 - 30
1961018	Methiocarb	8.47	Spike	P	0 - 30
1961018	Methomyl	0.685	Spike	P	0 - 30
1961018	Oxamyl	0.0696	Spike	P	0 - 30
1961018	Propoxur	15.7	Spike	P	0 - 30
1961018	Pyraclostrobin	18.1	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P338691

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961018	AMPA	1.43	Spike	P	0 - 30
1961018	Glyphosate	3.53	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P338739

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961510	Sucralose	14.1	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P338730

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961438	Color (true)	1.36	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P338731

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961484	Color (true)	0.955	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P338925

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961484	Total Alkalinity	2.76	Sample	P	0 - 4.8

Quality Assurance Report Precision

Reference Method: SM 2540 C-97
 Batch ID: P339138

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961437	TDS	6.74	Sample	P	0 - 10

Reference Method: SM 2540 C-97
 Batch ID: P339139

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961493	TDS	4.94	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
 Batch ID: P339020

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961779	Fluoride	0.938	Spike	P	0 - 3.0

Reference Method: SM 4500 F-C-97
 Batch ID: P339358

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961514	Fluoride	0.941	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
 Batch ID: P339205

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961143	Organic Carbon	0.503	Spike	P	0 - 20

Reference Method: USGS O-2060-01
 Batch ID: P338652

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961018	2,4-D	5.02	Spike	P	0 - 30
1961018	Acetaminophen	1.96	Spike	P	0 - 30
1961018	Bentazon	8.95	Spike	P	0 - 30
1961018	Carbamazepine	4.08	Spike	P	0 - 30
1961018	Diuron	4.67	Spike	P	0 - 30
1961018	Fenuron	4.52	Spike	P	0 - 30
1961018	Fluridone	9.64	Spike	P	0 - 30
1961018	Imidacloprid	5.57	Spike	P	0 - 30
1961018	Linuron	4.58	Spike	P	0 - 30
1961018	MCP	8.58	Spike	P	0 - 30
1961018	Primidone	6.61	Spike	P	0 - 30
1961018	Triclopyr	9.47	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: 1961510
Field Sample ID: G3NE0010

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	107	P	30 - 160
EPA 8321B	Acetaminophen-d4	107	P	30 - 160
EPA 8321B	Carbamazepine-d10	77.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	77.2	P	30 - 160
EPA 8321B	Diuron-d6	87.6	P	30 - 160
EPA 8321B	Diuron-d6	64.6	P	30 - 160
EPA 8321B	Diuron-d6	87.6	P	30 - 160
EPA 8321B	Diuron-d6	64.6	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	97.5	P	40 - 160
EPA 8321B	Primidone-d5	105	P	30 - 160
EPA 8321B	Primidone-d5	105	P	30 - 160
EPA 8321B	Sucralose-d6	111	P	40 - 160
EPA 8321B	Sucralose-d6	111	P	40 - 160
USGS O-2060-01	2,4-D-d3	38.1	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	107	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	77.2	P	30 - 160
USGS O-2060-01	Diuron-d6	87.6	P	30 - 160
USGS O-2060-01	Diuron-d6	64.6	P	30 - 160
USGS O-2060-01	Primidone-d5	105	P	30 - 160
USGS O-2060-01	Sucralose-d6	111	P	40 - 160

Lab Sample ID: 1961511
Field Sample ID: G3NE0010

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	42.0	P	30 - 160

Lab Sample ID: 1961512
Field Sample ID: 20030112

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	157	P	30 - 160
EPA 8321B	Carbamazepine-d10	113	P	30 - 160
EPA 8321B	Diuron-d6	98.4	P	30 - 160
EPA 8321B	Primidone-d5	73.2	P	30 - 160
EPA 8321B	Sucralose-d6	150	P	40 - 160
USGS O-2060-01	2,4-D-d3	107	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	157	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	113	P	30 - 160
USGS O-2060-01	Diuron-d6	98.4	P	30 - 160
USGS O-2060-01	Primidone-d5	73.2	P	30 - 160
USGS O-2060-01	Sucralose-d6	150	P	40 - 160

Lab Sample ID: 1961513
Field Sample ID: 20020109

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	116	P	30 - 160
EPA 8321B	Carbamazepine-d10	98.7	P	30 - 160
EPA 8321B	Diuron-d6	101	P	30 - 160
EPA 8321B	Primidone-d5	116	P	30 - 160
EPA 8321B	Sucralose-d6	106	P	40 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 1961513
Field Sample ID: 20020109

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
USGS O-2060-01	2,4-D-d3	91.8	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	116	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	98.7	P	30 - 160
USGS O-2060-01	Diuron-d6	101	P	30 - 160
USGS O-2060-01	Primidone-d5	116	P	30 - 160
USGS O-2060-01	Sucralose-d6	106	P	40 - 160

Lab Sample ID: 1961515
Field Sample ID: G3NE0010

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	78.7	P	37 - 117
EPA 8270D	Tetrachloro-m-xylene	53.6	P	34 - 101
EPA 8276	Decachlorobiphenyl	53.7	P	31 - 108
EPA 8276	PCNB	137	F	40 - 130

Lab Sample ID: 1961516
Field Sample ID: G3NE0010

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	111	P	71 - 126
EPA 8270D	Terbufos-d10	126	P	50 - 130

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A81616
Included Lab Sample IDs: 1961481, 1961482, 1961483, 1961484, 1961493

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	103	103	P/P	90 - 110
Chloride	103	104	P/P	90 - 110
Chloride	104	103	P/P	90 - 110
Sulfate	101	102	P/P	90 - 110
Sulfate	102	102	P/P	90 - 110
Sulfate	102	101	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A81628
Included Lab Sample IDs: 1961481, 1961482, 1961483, 1961484, 1961493

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.5	98.5	P/P	95 - 105

Reference Method: SM 2120 B
Run ID: A81630
Included Lab Sample IDs: 1961481, 1961482, 1961483, 1961484, 1961493

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	103	P/P	85 - 115

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B

Run ID: A81630

Included Lab Sample IDs: 1961481, 1961482, 1961483, 1961484, 1961493

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	103	103	P/P	85 - 115
Color (true)	99.8	103	P/P	85 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A81635

Included Lab Sample IDs: 1961489, 1961490, 1961491, 1961492, 1961495

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.8	99.9	P/P	90 - 110
O-Phosphate-P	99.9	99.9	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A81644

Included Lab Sample IDs: 1961485, 1961486, 1961487, 1961488, 1961494

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

Reference Method: EPA 8321B

Run ID: A81671

Included Lab Sample IDs: 1961511

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	107	107	P/P	60 - 150
Aldicarb	114	103	P/P	60 - 150
Aldicarb Sulfone	103	104	P/P	50 - 150
Aldicarb Sulfoxide	106	106	P/P	50 - 150
Carbaryl	99.5	101	P/P	60 - 150
Carbofuran	109	109	P/P	50 - 150
Methiocarb	106	102	P/P	50 - 150
Methomyl	110	97.2	P/P	50 - 150
Oxamyl	107	112	P/P	50 - 150
Propoxur	108	109	P/P	50 - 150
Pyraclostrobin	116	111	P/P	60 - 150

Reference Method: USGS O-2060-01

Run ID: A81671

Included Lab Sample IDs: 1961510, 1961512, 1961513

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	89.0	95.4	P/P	50 - 150
2,4-D	91.0	89.0	P/P	50 - 150
Acetaminophen	104	113	P/P	60 - 150
Bentazon	108	94.8	P/P	50 - 150
Bentazon	109	108	P/P	50 - 150
Carbamazepine	114	112	P/P	60 - 150
Diuron	106	108	P/P	60 - 150
Diuron	108	109	P/P	60 - 150
Fenuron	113	110	P/P	60 - 150
Fluridone	124	121	P/P	60 - 160
Imidacloprid	103	109	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: USGS O-2060-01

Run ID: A81671

Included Lab Sample IDs: 1961510, 1961512, 1961513

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Imidacloprid	104	103	P/P	60 - 150
Linuron	109	114	P/P	60 - 150
Linuron	96.9	109	P/P	60 - 150
MCPP	97.5	90.6	P/P	50 - 150
MCPP	97.8	97.5	P/P	50 - 150
Primidone	108	114	P/P	60 - 150
Triclopyr	105	72.2	P/P	50 - 150
Triclopyr	98.7	105	P/P	50 - 150

Reference Method: EPA 8321B

Run ID: A81676

Included Lab Sample IDs: 1961510

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	75.8	77.0	P/P	60 - 150
Glyphosate	73.6	78.5	P/P	60 - 150

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A81684

Included Lab Sample IDs: 1961485, 1961486, 1961487, 1961488, 1961494

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.3	101	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A81688

Included Lab Sample IDs: 1961519

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	102	103	P/P	90 - 110
Iron	101	99.0	P/P	90 - 110
Magnesium	101	99.1	P/P	90 - 110
Potassium	98.9	101	P/P	90 - 110
Sodium	102	105	P/P	90 - 110
Zinc	99.3	97.8	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A81689

Included Lab Sample IDs: 1961481, 1961482, 1961483, 1961484

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.2	99.3	P/P	90 - 110
Total Alkalinity	99.3	97.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A81703

Included Lab Sample IDs: 1961487, 1961488, 1961494

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A81708
Included Lab Sample IDs: 1961485, 1961486

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.9	99.8	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A81727
Included Lab Sample IDs: 1961510, 1961512, 1961513

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	111	114	P/P	60 - 150
Sucralose	98.0	111	P/P	60 - 150

Reference Method: SM 2320 B-97
Run ID: A81736
Included Lab Sample IDs: 1961493

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.0	97.2	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Run ID: A81736
Included Lab Sample IDs: 1961493

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A81740
Included Lab Sample IDs: 1961485, 1961486, 1961487, 1961488, 1961494

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

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A81741
Included Lab Sample IDs: 1961519

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	97.2	98.2	P/P	90 - 110
Cadmium	97.4	99.3	P/P	90 - 110
Chromium	96.9	98.1	P/P	90 - 110
Copper	97.1	96.4	P/P	90 - 110
Lead	103	104	P/P	90 - 110
Nickel	97.8	97.6	P/P	90 - 110
Silver	99.1	101	P/P	90 - 110

Reference Method: SM 5310 B-00
Run ID: A81806
Included Lab Sample IDs: 1961485, 1961486, 1961487, 1961488, 1961494

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.4	96.8	P/P	90 - 110
Organic Carbon	98.8	95.4	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A81858

Included Lab Sample IDs: 1961515

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	99.1		P	80 - 120
Alpha-BHC	94.1		P	80 - 120
Alpha-Chlordane	99.0		P	80 - 120
Beta-BHC	91.5		P	80 - 120
Carbophenothion	102		P	80 - 120
Chlorothalonil	102		P	80 - 120
Cypermethrin	98.3		P	80 - 120
DDD-p,p'	99.0		P	80 - 120
DDE-p,p'	99.3		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	96.5		P	80 - 120
Dicofol	99.2		P	80 - 120
Dieldrin	95.8		P	80 - 120
Endosulfan I	96.9		P	80 - 120
Endosulfan II	97.7		P	80 - 120
Endosulfan Sulfate	99.5		P	80 - 120
Endrin	99.6		P	80 - 120
Endrin Aldehyde	95.3		P	80 - 120
Endrin Ketone	98.5		P	80 - 120
Gamma-BHC	93.3		P	80 - 120
Gamma-Chlordane	101		P	80 - 120
Heptachlor	96.4		P	80 - 120
Heptachlor Epoxide	99.0		P	80 - 120
Methoxychlor	104		P	80 - 120
Mirex	104		P	80 - 120
Permethrin	97.6		P	80 - 120
Trifluralin	99.0		P	80 - 120

Reference Method: SM 4500 F-C-97

Run ID: A81863

Included Lab Sample IDs: 1961481, 1961482, 1961483, 1961484

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.5	106	P/P	90 - 110

Reference Method: EPA 8270D

Run ID: A81885

Included Lab Sample IDs: 1961516

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	102		P	80 - 120
Alachlor	103		P	80 - 120
Ametryn	99.4		P	80 - 120
Atrazine	112		P	80 - 120
Atrazine Desethyl	108		P	80 - 120
Azinphos Methyl	98.6		P	80 - 120
Bromacil	109		P	80 - 120
Butylate	97.4		P	80 - 120
Chlorpyrifos Ethyl	105		P	80 - 120
Chlorpyrifos Methyl	109		P	80 - 120
Cyanazine	109		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D
Run ID: A81885
Included Lab Sample IDs: 1961516

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Demeton	106		P	80 - 120
Diazinon	108		P	80 - 120
Disulfoton	103		P	80 - 120
EPTC	110		P	80 - 120
Ethion	104		P	80 - 120
Ethoprop	94.5		P	80 - 120
Fenamiphos	106		P	80 - 120
Fipronil	98.9		P	80 - 120
Fipronil Sulfide	107		P	80 - 120
Fipronil Sulfone	105		P	80 - 120
Fonofos	109		P	80 - 120
Hexazinone	108		P	80 - 120
Malathion	106		P	80 - 120
Metaxyl	103		P	80 - 120
Metolachlor	105		P	80 - 120
Metribuzin	115		P	80 - 120
Mevinphos	111		P	80 - 120
Molinate	103		P	80 - 120
Norflurazon	104		P	80 - 120
Parathion Ethyl	109		P	80 - 120
Parathion Methyl	115		P	80 - 120
Pendimethalin	107		P	80 - 120
Phorate	111		P	80 - 120
Prometon	103		P	80 - 120
Prometryn	102		P	80 - 120
Simazine	107		P	80 - 120
Terbufos	110		P	80 - 120
Terbutylazine	105		P	80 - 120

Reference Method: EPA 8276
Run ID: A81889
Included Lab Sample IDs: 1961515

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	95.3		P	80 - 120
Toxaphene	80.5		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 SMP	MS
						LCS	
EPA 180.1 Rev. 2.0	Turbidity					1.10	
	Turbidity					5.40	
EPA 200.7 Rev. 4.4	Calcium	109	107	106	106		0.495
	Iron	108	112	106	106		0.557

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			LCS	Precision	MS
								SMP	
EPA 200.7 Rev. 4.4	Magnesium	113		115	110	111			0.521
	Potassium	104		104	109	107			2.20
	Sodium	109		109	104	103			0.886
	Zinc	102		109	100	102			1.61
EPA 200.8 Rev. 5.4	Arsenic	98.1		99.1	98.9	99.3			0.396
	Cadmium	98.9		100	99.2	101			1.73
	Chromium	99.2		100	101	99.2			1.54
	Copper	95.3		98.1	96.3	96.9			0.658
	Lead	104		105	105	106			0.644
	Nickel	97.8		100	100	99.1			1.30
	Silver	99.0		97.7	98.5	99.7			1.29
EPA 300.0 Rev. 2.1	Chloride	101		102	100			1.65	
	Sulfate	98.5		98.6	98.3			2.59	
EPA 350.1 Rev. 2.0	Ammonia-N	101		101	102				1.32
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	98.4		97.7	99.1				1.03
EPA 353.2 Rev. 2.0	NO2NO3-N	102		97.4	96.4				0.966
EPA 365.1 Rev. 2.0	Total-P	101		99.2	105				5.16
	Total-P	101		96.1	101				4.25
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.4							0.0
	O-Phosphate-P	98.5							0.805
EPA 8270D	Acetochlor	101	104	102	101		3.09		0.919
	Alachlor	105	107	106	103		2.21		2.72
	Aldrin	54.7	40.2	61.9	46.5		30.6		28.5
	Alpha-BHC	88.3	80.6	93.8	84.8		9.13		10.1
	Alpha-Chlordane	87.6	75.1	76.9	60.6		15.4		23.7
	Ametryn	109	105	170	163		3.76		4.49
	Atrazine	100	109				8.54		6.58
	Atrazine Desethyl	63.1	66.0	73.2	54.0		4.43		22.7
	Azinphos Methyl	98.7	111	129	120		11.7		6.83
	Beta-BHC	104	83.2	71.6	47.8		22.0		39.8
	Bromacil	72.9	75.5	95.7	81.8		3.54		15.6
	Butylate	66.9	80.9	32.2	43.8		19.1		30.3
	Carbophenothion	108	91.0	153	137		17.3		10.8
	Chlorothalonil	95.4	90.2	67.2	57.1		5.63		16.4
	Chlorpyrifos Ethyl	97.1	112	108	106		13.8		2.36
	Chlorpyrifos Methyl	86.3	101	104	101		16.1		2.77
	Cyanazine	97.1	90.1	163	129		7.38		23.5
	Cypermethrin	108	94.0	125	104		13.8		18.0
	DDD-p,p'	100	81.8	77.2	55.7		20.1		32.4
	DDE-p,p'	88.5	75.3	75.4	62.0		16.1		19.5
	DDT-p,p'	90.8	82.9	72.8	53.5		9.16		30.4
	Delta-BHC	111	94.6	91.6	62.7		16.0		37.6
	Demeton	62.7	82.2	61.5	64.6		26.8		4.88
	Diazinon	101	105	95.7	98.0		3.77		2.30
	Dicofol	70.9	66.7	60.2	58.8		5.99		2.32
	Dieldrin	88.0	79.6	74.0	57.8		10.0		24.7
	Disulfoton	60.7	77.6	88.2	83.0		24.5		5.98
	Endosulfan I	90.6	76.7	85.7	69.5		16.6		20.9
	Endosulfan II	106	99.0	81.7	62.0		6.64		27.3
	Endosulfan Sulfate	91.7	81.8	63.4	42.8		11.4		38.9
	Endrin	91.0	74.0	80.8	69.8		20.7		14.5
	Endrin Aldehyde	96.3	74.2	28.0	36.9		26.0		27.4
	Endrin Ketone	90.9	83.1	65.3	49.3		8.92		27.9
	EPTC	66.4	87.4	32.5	46.6		27.3		35.7

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 8270D	Ethion	112	121	121	118	7.49		2.30
	Ethoprop	83.7	94.2	72.1	69.9	11.8		3.12
	Fenamiphos	50.1	70.3	104	89.7	33.6		15.0
	Fipronil	105	101	101	77.4	3.99		26.1
	Fipronil Sulfide	111	108	98.0	66.4	2.97		34.3
	Fipronil Sulfone	110	106	92.2	16.1	3.54		56.3
	Fonofos	87.9	95.8	92.1	86.5	8.66		6.17
	Gamma-BHC	110	98.4	93.0	97.2	11.1		4.50
	Gamma-Chlordane	88.4	76.6	79.4	62.2	14.2		24.3
	Heptachlor	75.4	66.7	70.1	52.0	12.3		29.7
	Heptachlor Epoxide	86.1	76.0	77.1	59.7	12.6		25.3
	Hexazinone	142	158	126	111	11.2		11.0
	Malathion	115	117	119	109	1.98		9.06
	Metalaxyl	33.1	59.5	126	112	57.0		12.2
	Methoxychlor	101	93.6	81.2	64.8	7.10		22.5
	Metolachlor	107	111	109	110	4.37		1.00
	Metribuzin	95.2	108	163	154	12.6		5.79
	Mevinphos	81.2	91.7	69.4	67.0	12.2		3.52
	Mirex	88.0	79.0	75.0	59.5	10.7		23.0
	Molinate	70.0	88.8	41.3	56.0	23.7		30.2
	Norflurazon	92.7	80.2	107	78.3	14.4		31.0
	Parathion Ethyl	103	103	105	108	0.0946		3.00
	Parathion Methyl	101	106	108	107	5.18		1.21
	Pendimethalin	92.3	108	108	116	15.5		6.91
	Permethrin	103	92.7	111	90.2	10.8		21.1
	Phorate	65.3	86.5	72.2	73.3	27.9		1.46
	Prometon	98.7	90.5	116	112	8.63		3.13
	Prometryn	102	105	105	103	3.34		1.67
	Simazine	105	110	117	120	5.07		2.43
	Terbufos	81.4	93.1	88.1	84.8	13.4		3.81
	Terbutylazine	107	110	109	107	3.54		1.51
	Trifluralin	84.9	77.8	78.2	61.3	8.65		24.3
EPA 8276	Chlordane	75.2	71.5	63.4	65.4	5.06		3.04
	Toxaphene	80.4	70.9	59.9	66.6	12.6		10.6
EPA 8321B	3-Hydroxycarbofuran	108		120	119			0.745
	Aldicarb	131		129	144			11.0
	Aldicarb Sulfone	109		132	135			2.83
	Aldicarb Sulfoxide	117		98.1	103			4.63
	AMPA	106		101	102			1.43
	Carbaryl	79.0		73.2	84.1			13.9
	Carbofuran	80.6		73.8	81.0			9.36
	Glyphosate	105		100	104			3.53
	Methiocarb	82.6		77.5	84.4			8.47
	Methomyl	109		92.4	93.0			0.685
	Oxamyl	99.7		100	100			0.0696
	Propoxur	79.3		66.3	77.5			15.7
	Pyraclostrobin	103		109	90.5			18.1
	Sucralose	111		100	119			14.1
SM 2120 B	Color (true)						1.36	
	Color (true)						0.955	
SM 2320 B-97	Total Alkalinity	99.4					2.76	
	Total Alkalinity	101						
SM 2540 C-97	TDS						6.74	
	TDS						4.94	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
SM 4500 F-C-97	Fluoride	96.1	97.1	98.0		0.938
	Fluoride	97.0	97.6	100		0.941
SM 5310 B-00	Organic Carbon	96.1	98.0	98.7		0.503
USGS O-2060-01	2,4-D	73.4	70.6	66.3		5.02
	Acetaminophen	101	126	129		1.96
	Bentazon	80.2	53.8	48.0		8.95
	Carbamazepine	101	101	105		4.08
	Diuron	86.8	90.3	94.6		4.67
	Fenuron	120	97.6	102		4.52
	Fluridone	118	93.3	109		9.64
	Imidacloprid	111	161	152		5.57
	Linuron	102	100	105		4.58
	MCPP	74.7	59.0	54.1		8.58
	Primidone	120	126	134		6.61
	Triclopyr	77.7	58.0	52.7		9.47

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1961481, 1961482, 1961483, 1961484, 1961493
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1961519
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1961519
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1961481, 1961482, 1961483, 1961484, 1961493
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1961481, 1961482, 1961483, 1961484, 1961493
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1961485, 1961486, 1961487, 1961488, 1961494
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1961485, 1961486, 1961487, 1961488, 1961494
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1961485, 1961486, 1961487, 1961488, 1961494
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1961485, 1961486, 1961487, 1961488, 1961494
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1961489, 1961490, 1961491, 1961492, 1961495
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	1961515
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1961516
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	1961515
EPA 8321B / E31780	Analysis of sucralose in water matrices by HPLC/MS/MS	1961510, 1961512, 1961513
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	1961511
EPA 8321B / E31780	Glyphosate in water matrices by HPLC/MS/MS	1961510
EPA 8321B / E31780	Pyraclostrobin in water matrices by HPLC/MS/MS	1961510
SM 2120 B / E31780	True Color measured at 450 nm	1961481, 1961482, 1961483, 1961484, 1961493
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1961481, 1961482, 1961483, 1961484, 1961493
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1961481, 1961482, 1961483, 1961484, 1961493
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1961481, 1961482, 1961483, 1961484, 1961493

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1961481, 1961482, 1961483, 1961484, 1961493
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1961485, 1961486, 1961487, 1961488, 1961494
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1961510, 1961512, 1961513
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1961510, 1961512, 1961513

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	01/24/2018			01/24/2018 15:22	DeAsia Armster	1961481, 1961482, 1961483, 1961484, 1961493
EPA 200.7 Rev. 4.4	01/24/2018	01/25/2018	Elliott D. Healy	01/26/2018	Martin Acosta	1961519
EPA 200.8 Rev. 5.4	01/24/2018	01/25/2018	Elliott D. Healy	01/30/2018	Nadine Brooks	1961519
EPA 300.0 Rev. 2.1	01/24/2018			01/25/2018	Julia Storbeck	1961481, 1961482, 1961483, 1961484, 1961493
EPA 350.1 Rev. 2.0	01/24/2018			01/30/2018	Julia Storbeck	1961485, 1961486, 1961487, 1961488, 1961494
EPA 351.2 Rev. 2.0	01/24/2018	01/25/2018	Adrian Shelby	01/26/2018	Joseph Suarez	1961485, 1961486, 1961487, 1961488, 1961494
EPA 353.2 Rev. 2.0	01/24/2018			01/25/2018	Beverly Y. Sanders	1961485, 1961486, 1961487, 1961488, 1961494
EPA 365.1 Rev. 2.0	01/24/2018	01/26/2018	Sima Feizi	01/29/2018	Lipi Saha	1961485, 1961486, 1961487, 1961488, 1961494
EPA 365.1 Rev. 2.0 dissolved	01/24/2018			01/24/2018 15:09	Megan Treadwell	1961492
	01/24/2018			01/24/2018 15:22	Megan Treadwell	1961489
	01/24/2018			01/24/2018 15:24	Megan Treadwell	1961490
	01/24/2018			01/24/2018 15:25	Megan Treadwell	1961491
	01/24/2018			01/24/2018 15:26	Megan Treadwell	1961495
EPA 8270D	01/24/2018	01/26/2018	John Kaba	01/31/2018	Vandana T. Nagar	1961516
	01/24/2018	01/29/2018	John Kaba	02/01/2018	Marek Topolski	1961515
EPA 8276	01/24/2018	01/29/2018	John Kaba	02/05/2018	John P. Burgos	1961515
EPA 8321B	01/24/2018	01/24/2018	Hoor Shaik	01/25/2018	S. M. Reddy	1961510
	01/24/2018	01/26/2018	Juyoung Kim	01/26/2018	Juyoung Kim	1961510
SM 2120 B	01/24/2018			01/24/2018 15:50	Tanya Welborn	1961482
	01/24/2018			01/24/2018 15:54	Tanya Welborn	1961484
	01/24/2018			01/24/2018 15:55	Tanya Welborn	1961493
	01/24/2018			01/24/2018 16:43	Tanya Welborn	1961481, 1961483
SM 2320 B-97	01/24/2018			01/27/2018	Lauren Bottorf	1961481, 1961482, 1961483, 1961484
	01/24/2018			01/30/2018	Lauren Bottorf	1961493
SM 2540 C-97	01/24/2018			01/26/2018	Yijie Li	1961481, 1961482, 1961483, 1961484, 1961493
SM 2540 D-97	01/24/2018			01/26/2018	Yijie Li	1961481, 1961482, 1961483, 1961484, 1961493
SM 4500 F-C-97	01/24/2018			01/30/2018	Lauren Bottorf	1961493
	01/24/2018			02/05/2018	Dale L. Simmons	1961481, 1961482, 1961483, 1961484
SM 5310 B-00	01/24/2018			01/31/2018	Megan Treadwell	1961485, 1961486, 1961487, 1961488, 1961494
USGS O-2060-01	01/24/2018	01/24/2018	Hoor Shaik	01/25/2018	Julie Michelle Frank	1961510, 1961512, 1961513
	01/24/2018	01/24/2018	Hoor Shaik	01/26/2018	Julie Michelle Frank	1961510, 1961512, 1961513