

Chemical Analysis Report

NE-DIST-2017-02-17-01

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

Event Description: **Suwannee 5- 2/16/2017**

Request ID: **RQ-2017-02-13-12**

Customer: **NE-DIST**

Project ID: **SMP**

Send Reports to:
NE ROC
8800 Baymeadows Way West
Suite100
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Certified by: Thekkekalathil Chandrasekhar, Chemist Administrator

Date Certified: 15-MAR-2017 14:08



Case Narrative

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

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

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

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

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

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

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

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

Precision is reported as relative percent difference unless otherwise noted.

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

QC Codes used in this report may include:

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

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

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

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

**Sample Location: ALLIGATOR CREEK ABOVE STARKE WWTP
ON US 301**

Collection Date/Time: 02/16/2017 09:15

Field ID: G1NE0557 02162017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1873515	EPA 180.1 Rev. 2.0	Turbidity	4.0		NTU	P320076	
	EPA 300.0 Rev. 2.1	Chloride	24		mg Cl/L	P321008	
		Sulfate	41		mg SO4/L	P320819	
	SM 2120 B	Color (true)	40	A	PCU	P320077	
	SM 2320 B-97	Total Alkalinity	23		mg CaCO3/L	P320217	
	SM 2540 C-97	TDS	155		mg/L	P320523	
	SM 2540 D-97	TSS	3	I	mg/L	P320521	
	SM 4500 F-C-97	Fluoride	0.045	I	mg F/L	P320221	
1873517	EPA 350.1 Rev. 2.0	Ammonia-N	0.009		mg N/L	P320318	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.31		mg N/L	P320162	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.006	I	mg N/L	P320463	
	EPA 365.1 Rev. 2.0	Total-P	0.019		mg P/L	P320176	
	SM 5310 B-00	Organic Carbon	7.4		mg C/L	P320099	
1873519	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.005	I	mg P/L	P320084	
1873534	EPA 8321B	Sucralose**	0.067		ug/L	P319991	
	USGS O-2060-01	Diuron	0.0057	I	ug/L	P319949	MS
		Fenuron	0.0080	U	ug/L	P319949	
		Imidacloprid	0.0040	U	ug/L	P319949	
		Linuron	0.0040	U	ug/L	P319949	MS
		Acetaminophen**	0.0040	U	ug/L	P319949	
		Carbamazepine**	4.0E-04	U	ug/L	P319949	
		Primidone**	0.0080	U	ug/L	P319949	
		Fluridone**	4.0E-04	U	ug/L	P319949	MS

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Chloride: Batch matrix spike recoveries are unavailable because of high 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: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: TURKEY CREEK NW 59TH

Collection Date/Time: 02/16/2017 10:10

Field ID: G1NE0018 02162017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1873516	EPA 180.1 Rev. 2.0	Turbidity	1.2	A	NTU	P320076	
	EPA 300.0 Rev. 2.1	Chloride	21		mg Cl/L	P321008	
		Sulfate	55		mg SO4/L	P320819	
	SM 2120 B	Color (true)	79		PCU	P320077	
	SM 2320 B-97	Total Alkalinity	97		mg CaCO3/L	P320217	
	SM 2540 C-97	TDS	248	A	mg/L	P320523	
	SM 2540 D-97	TSS	3	I	mg/L	P320521	
	SM 4500 F-C-97	Fluoride	0.29		mg F/L	P320221	
1873518	EPA 350.1 Rev. 2.0	Ammonia-N	0.019		mg N/L	P320318	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.70		mg N/L	P320162	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.078		mg N/L	P320464	
	EPA 365.1 Rev. 2.0	Total-P	0.40		mg P/L	P320176	

Field ID: G1NE0018 02162017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1873518	SM 5310 B-00	Organic Carbon	16		mg C/L	P320099	
1873520	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.38		mg P/L	P320084	
1873535	EPA 8321B	Sucralose**	0.17		ug/L	P319991	
	USGS O-2060-01	Diuron	0.0043	I	ug/L	P319949	MS
		Fenuron	0.0080	U	ug/L	P319949	
		Imidacloprid	0.0040	U	ug/L	P319949	
		Linuron	0.0040	U	ug/L	P319949	MS
		Acetaminophen**	0.0040	U	ug/L	P319949	
		Carbamazepine**	4.0E-04	U	ug/L	P319949	
		Primidone**	0.0080	U	ug/L	P319949	
		Fluridone**	4.0E-04	U	ug/L	P319949	MS

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Chloride: Batch matrix spike recoveries are unavailable because of high 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: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: HAGUE BRANCH TRIB @ US 441 80 M W 77TH TERRACE **Collection Date/Time: 02/16/2017 10:40**

Field ID: G1NE0631 02162017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1873521	EPA 180.1 Rev. 2.0	Turbidity	2.4		NTU	P320076	
	EPA 300.0 Rev. 2.1	Chloride	25		mg Cl/L	P320911	
		Sulfate	54		mg SO4/L	P320819	
	SM 2120 B	Color (true)	28		PCU	P320077	
	SM 2320 B-97	Total Alkalinity	171		mg CaCO3/L	P320217	
	SM 2540 C-97	TDS	321		mg/L	P320523	
	SM 2540 D-97	TSS	19		mg/L	P320521	
	SM 4500 F-C-97	Fluoride	0.26		mg F/L	P320221	
1873523	EPA 350.1 Rev. 2.0	Ammonia-N	0.020		mg N/L	P320318	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.47		mg N/L	P320162	
	EPA 353.2 Rev. 2.0	NO2NO3-N	1.9		mg N/L	P320825	
	EPA 365.1 Rev. 2.0	Total-P	0.45		mg P/L	P320177	
	SM 5310 B-00	Organic Carbon	7.1		mg C/L	P320099	
1873524	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.40		mg P/L	P320084	
1873536	EPA 8321B	Glyphosate**	10	U	ug/L	P320058	
		Sucralose**	0.071		ug/L	P319991	
	USGS O-2060-01	2,4-D	0.0040	U	ug/L	P319949	
		2,4,5-T	0.0020	U	ug/L	P319949	
		Acifluorfen	0.0020	U	ug/L	P319949	
		Bentazon	0.0020	U	ug/L	P319949	
		Silvex	0.0020	U	ug/L	P319949	
1873537	EPA 200.8 Rev. 5.4	Arsenic	0.73		ug/L	P320209	
		Cadmium	0.491		ug/L	P320209	
		Copper	0.39	I	ug/L	P320209	
		Lead	0.064	I	ug/L	P320209	

Field ID: G1NE0631 02162017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1873537	EPA 200.8 Rev. 5.4	Nickel	2.47		ug/L	P320209	
		Silver	0.010	U	ug/L	P320209	
1873538	DEP SOP: GC-011-5 (based on EPA 608 and 617)	Aldrin	0.0020	U	ug/L	P320787	
		Alpha-BHC	0.0020	U	ug/L	P320787	
		Beta-BHC	0.0020	U	ug/L	P320787	
		Delta-BHC	0.0020	U	ug/L	P320787	
		Gamma-BHC	0.0020	U	ug/L	P320787	
		Carbophenothion	0.0059	UJ	ug/L	P320787	CCV
		Chlordane	0.020	U	ug/L	P320787	
		Chlorothalonil	0.0079	U	ug/L	P320787	
		Cypermethrin	0.012	U	ug/L	P320787	
		DDD-p,p'	0.0040	U	ug/L	P320787	
		DDE-p,p'	0.0040	U	ug/L	P320787	
		DDT-p,p'	0.0040	U	ug/L	P320787	
		Dicofol	0.024	UJ	ug/L	P320787	CCV
		Dieldrin	0.0020	U	ug/L	P320787	
		Endosulfan I	0.0020	U	ug/L	P320787	
		Endosulfan II	0.0020	U	ug/L	P320787	
		Endosulfan Sulfate	0.0040	U	ug/L	P320787	
		Endrin	0.0040	U	ug/L	P320787	
		Endrin Aldehyde	0.0040	U	ug/L	P320787	
		Heptachlor	0.0020	U	ug/L	P320787	
		Heptachlor Epoxide	0.0020	U	ug/L	P320787	
		Methoxychlor	0.0099	UJ	ug/L	P320787	CCV
		Mirex	0.0040	U	ug/L	P320787	
		Permethrin	0.0099	U	ug/L	P320787	
		Toxaphene	0.099	U	ug/L	P320787	
		PCB-1016	0.020	U	ug/L	P320787	
		PCB-1221	0.020	U	ug/L	P320787	
		PCB-1232	0.020	U	ug/L	P320787	
		PCB-1242	0.020	U	ug/L	P320787	
		PCB-1248	0.020	U	ug/L	P320787	
		PCB-1254	0.020	U	ug/L	P320787	
		PCB-1260	0.020	U	ug/L	P320787	
		Trifluralin	0.0079	U	ug/L	P320787	
		Hexachlorobenzene**	0.0020	U	ug/L	P320787	
		Hexachlorocyclopentadiene**	0.0079	U	ug/L	P320787	
		Alpha-Chlordane	0.0020	U	ug/L	P320787	
		Gamma-Chlordane	0.0020	U	ug/L	P320787	
		Endrin Ketone	0.0040	UJ	ug/L	P320787	CCV
1873539	EPA 8270D	Ametryn	0.85	I	ng/L	P320075	
		Atrazine	0.84	I	ng/L	P320075	
		Chlorpyrifos Ethyl	0.27	U	ng/L	P320075	
		Chlorpyrifos Methyl	0.11	U	ng/L	P320075	

Field ID: G1NE0631 02162017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1873539	EPA 8270D	Disulfoton	0.35	U	ng/L	P320075	
		Ethion	0.16	U	ng/L	P320075	
		Ethoprop	0.11	U	ng/L	P320075	
		Hexazinone	3.9		ng/L	P320075	
		Malathion	0.38	U	ng/L	P320075	
		Metribuzin	0.22	U	ng/L	P320075	
		Mevinphos	0.54	U	ng/L	P320075	
		Norflurazon	0.54	U	ng/L	P320075	
		Phorate	0.27	U	ng/L	P320075	
		Prometryn	0.22	U	ng/L	P320075	
		Simazine	0.54	U	ng/L	P320075	
		Atrazine Desethyl	1.6	UJ	ng/L	P320075	RPD
		Prometon	3.8		ng/L	P320075	
		Fipronil	0.27	U	ng/L	P320075	
		Molinate	0.32	UJ	ng/L	P320075	RPD
		Pendimethalin	1.6	U	ng/L	P320075	
		Terbufos	0.11	U	ng/L	P320075	
		EPTC	1.3	U	ng/L	P320075	
		Terbuthylazine	0.46	U	ng/L	P320075	
		Bromacil	2.9		ng/L	P320075	
		Fipronil Sulfide	0.16	UJ	ng/L	P320075	RPD
		Fipronil Sulfone	0.16	UJ	ng/L	P320075	RPD
		Alachlor	0.27	U	ng/L	P320075	
		Azinphos Methyl	2.4	U	ng/L	P320075	
		Butylate	0.43	U	ng/L	P320075	
		Demeton	1.1	U	ng/L	P320075	
		Diazinon	0.13	UJ	ng/L	P320075	MS, RPD
		Fenamiphos	0.27	U	ng/L	P320075	
		Fonofos	0.22	U	ng/L	P320075	
		Metalaxyl	0.22	U	ng/L	P320075	
		Metolachlor	0.27	U	ng/L	P320075	
		Acetochlor	0.27	U	ng/L	P320075	
		Cyanazine	0.54	UJ	ng/L	P320075	RPD
		Parathion Ethyl	0.27	U	ng/L	P320075	
		Parathion Methyl	0.27	U	ng/L	P320075	

Ref. Method and Comment:

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

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

DEP SOP: GC-011-5 (based on EPA 608 and 617): Refer to the narrative for an explanation of QC Codes.

EPA 8270D: Refer to the narrative for an explanation of QC Codes.

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: GC-011-5 (based on EPA 608 and 617)

Batch ID: P320787

Component	Result	Code	Units
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Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: GC-011-5 (based on EPA 608 and 617)
Batch ID: P320787

Component	Result	Code	Units
Aldrin	0.0020	U	ug/L
Alpha-BHC	0.0020	U	ug/L
Alpha-Chlordane	0.0020	U	ug/L
Beta-BHC	0.0020	U	ug/L
Carbophenothion	0.0060	U	ug/L
Chlordane	0.020	U	ug/L
Chlorothalonil	0.0080	U	ug/L
Cypermethrin	0.012	U	ug/L
DDD-p,p'	0.0040	U	ug/L
DDE-p,p'	0.0040	U	ug/L
DDT-p,p'	0.0040	U	ug/L
Delta-BHC	0.0020	U	ug/L
Dicofol	0.024	U	ug/L
Dieldrin	0.0020	U	ug/L
Endosulfan I	0.0020	U	ug/L
Endosulfan II	0.0020	U	ug/L
Endosulfan Sulfate	0.0040	U	ug/L
Endrin	0.0040	U	ug/L
Endrin Aldehyde	0.0040	U	ug/L
Endrin Ketone	0.0040	U	ug/L
Gamma-BHC	0.0020	U	ug/L
Gamma-Chlordane	0.0020	U	ug/L
Heptachlor	0.0020	U	ug/L
Heptachlor Epoxide	0.0020	U	ug/L
Hexachlorobenzene	0.0020	U	ug/L
Hexachlorocyclopentadiene	0.0080	U	ug/L
Methoxychlor	0.010	U	ug/L
Mirex	0.0040	U	ug/L
PCB-1016	0.020	U	ug/L
PCB-1221	0.020	U	ug/L
PCB-1232	0.020	U	ug/L
PCB-1242	0.020	U	ug/L
PCB-1248	0.020	U	ug/L
PCB-1254	0.020	U	ug/L
PCB-1260	0.020	U	ug/L
Permethrin	0.010	U	ug/L
Toxaphene	0.10	U	ug/L
Trifluralin	0.0080	U	ug/L

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P320076

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P320209

Component	Result	Code	Units
Arsenic	0.050	U	ug/L
Cadmium	0.020	U	ug/L
Copper	0.20	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P320209

Component	Result	Code	Units
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: P320819

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P320911

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P321008

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P320318

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P320162

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P320463

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P320464

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P320825

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: P320176

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P320177

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P320084

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

Reference Method: EPA 8270D
Batch ID: P320075

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	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D
Batch ID: P320075

Component	Result	Code	Units
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 8321B
Batch ID: P319991

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B
Batch ID: P320058

Component	Result	Code	Units
Glyphosate	10	U	ug/L

Reference Method: SM 2120 B
Batch ID: P320077

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P320217

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

Reference Method: SM 2540 C-97
Batch ID: P320523

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P320521

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P320221

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P320099

Component	Result	Code	Units
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Quality Assurance Report Method Blank Results

Reference Method: SM 5310 B-00
Batch ID: P320099

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

Reference Method: USGS O-2060-01
Batch ID: P319949

Component	Result	Code	Units
2,4,5-T	0.0020	U	ug/L
2,4-D	0.0040	U	ug/L
Acetaminophen	0.0040	U	ug/L
Acifluorfen	0.0020	U	ug/L
Bentazon	0.0020	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
Primidone	0.0080	U	ug/L
Silvex	0.0020	U	ug/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: GC-011-5 (based on EPA 608 and 617)
Batch ID: P320787

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Toxaphene	103	107	P/P	70 - 130

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P320209

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	92.6		P	85 - 115
Cadmium	90.5		P	85 - 115
Copper	93.2		P	85 - 115
Lead	92.2		P	85 - 115
Nickel	94.2		P	85 - 115
Silver	85.6		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P320819

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P320911

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	96.6		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P321008

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	95.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P320318

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P320162

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P320463

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P320464

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P320825

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P320176

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P320177

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P320084

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P320075

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	101	90.7	P/P	78 - 118
Alachlor	99.8	89.4	P/P	77 - 119
Ametryn	107	89.4	P/P	61 - 136
Atrazine	86.2	86.2	P/P	73 - 120
Atrazine Desethyl	83.3	60.3	P/P	16 - 122
Azinphos Methyl	139	105	P/P	69 - 186
Bromacil	113	88.8	P/P	40 - 125
Butylate	55.7	65.6	P/P	32 - 87.0
Chlorpyrifos Ethyl	88.9	85.0	P/P	53 - 110
Chlorpyrifos Methyl	87.6	79.7	P/P	31 - 119
Cyanazine	199	96.2	P/P	36 - 224
Demeton	85.8	86.0	P/P	39 - 122
Diazinon	103	89.7	P/P	75 - 119
Disulfoton	97.3	91.5	P/P	42 - 139
EPTC	51.9	64.6	P/P	33 - 96.0
Ethion	85.2	82.8	P/P	63 - 127
Ethoprop	77.8	68.5	P/P	65 - 107
Fenamiphos	105	93.4	P/P	64 - 137
Fipronil	112	97.3	P/P	60 - 126
Fipronil Sulfide	93.5	84.1	P/P	58 - 124
Fipronil Sulfone	77.3	82.6	P/P	57 - 126
Fonofos	77.6	75.9	P/P	65 - 111
Hexazinone	89.0	84.1	P/P	46 - 151
Malathion	85.3	86.7	P/P	68 - 132
Metaxyl	97.8	91.4	P/P	51 - 132
Metolachlor	93.6	91.8	P/P	78 - 119
Metribuzin	83.0	73.5	P/P	64 - 138
Mevinphos	68.8	63.7	P/P	34 - 128
Molinate	55.5	62.8	P/P	44 - 101
Norflurazon	102	88.9	P/P	63 - 129
Parathion Ethyl	86.8	83.2	P/P	80 - 109
Parathion Methyl	97.2	87.6	P/P	74 - 125
Pendimethalin	84.7	85.4	P/P	48 - 134
Phorate	75.2	70.3	P/P	52 - 119
Prometon	93.1	80.3	P/P	69 - 124
Prometryn	100	88.0	P/P	66 - 124
Simazine	96.4	81.8	P/P	61 - 134
Terbufos	77.6	75.8	P/P	58 - 115
Terbuthylazine	82.4	86.9	P/P	77 - 113

Reference Method: EPA 8321B
Batch ID: P319991

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	99.9		P	40 - 140

Reference Method: EPA 8321B
Batch ID: P320058

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Glyphosate	96.0		P	40 - 140

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-97
Batch ID: P320217

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

Reference Method: SM 4500 F-C-97
Batch ID: P320221

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.6		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P320099

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	93.7		P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P319949

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4,5-T	71.6		P	40 - 140
2,4-D	76.4		P	40 - 140
Acetaminophen	73.2		P	40 - 140
Acifluorfen	46.4		P	40 - 140
Bentazon	102		P	40 - 140
Carbamazepine	125		P	40 - 140
Diuron	78.8		P	40 - 140
Fenuron	98.8		P	40 - 140
Fluridone	53.2		P	40 - 140
Imidacloprid	85.2		P	40 - 160
Linuron	65.6		P	40 - 140
Primidone	89.2		P	40 - 140
Silvex	84.8		P	40 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: GC-011-5 (based on EPA 608 and 617)
Batch ID: P320787

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1873538	Toxaphene	122	120	P/P	70 - 130

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P320209

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1873654	Arsenic	89.1	88.9	P/P	80 - 120
1873654	Cadmium	86.8	87.1	P/P	80 - 120
1873654	Copper	90.3	90.5	P/P	80 - 120
1873654	Lead	88.9	88.2	P/P	80 - 120
1873654	Nickel	90.1	90.0	P/P	80 - 120
1873654	Silver	83.0	85.0	P/P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P320209

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1873658	Arsenic	86.6		P	85 - 115
1873658	Cadmium	87.1		P	85 - 115
1873658	Copper	87.6		P	85 - 115
1873658	Lead	88.9		P	85 - 115
1873658	Nickel	88.0		P	85 - 115
1873658	Silver	83.6		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P320819

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1873397	Sulfate	102		P	90 - 110
1873398	Sulfate	104		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P320911

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1873397	Chloride	95.4		P	90 - 110
1873398	Chloride	97.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P321008

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1873900	Chloride	93.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P320318

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1873517	Ammonia-N	100	98.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P320162

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1873639	Kjeldahl Nitrogen	100	96.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P320463

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1873331	NO2NO3-N	100	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P320464

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1873857	NO2NO3-N	102	104	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P320825

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1875704	NO2NO3-N	96.4	96.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P320177

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1873805	Total-P	94.5	93.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P320084

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1873519	O-Phosphate-P	97.8	98.1	P/P	90 - 110

Reference Method: EPA 8270D
 Batch ID: P320075

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1873539	Acetochlor	103	116	P/P	74 - 123
1873539	Alachlor	100	117	P/P	73 - 124
1873539	Ametryn	109	115	P/P	56 - 149
1873539	Atrazine	88.9	97.4	P/P	73 - 124
1873539	Atrazine Desethyl	81.7	81.7	P/P	12 - 103
1873539	Azinphos Methyl	121	139	P/P	60 - 202
1873539	Bromacil	114	106	P/P	42 - 133
1873539	Butylate	61.2	72.4	P/P	10 - 85.0
1873539	Chlorpyrifos Ethyl	88.3	97.8	P/P	53 - 113
1873539	Chlorpyrifos Methyl	87.4	92.7	P/P	40 - 115
1873539	Cyanazine	128	143	P/P	22 - 210
1873539	Demeton	91.8	92.4	P/P	17 - 149
1873539	Diazinon	99.3	138	P/F	72 - 124
1873539	Disulfoton	103	106	P/P	43 - 139
1873539	EPTC	63.2	68.9	P/P	10 - 86.0
1873539	Ethion	85.3	85.5	P/P	65 - 131
1873539	Ethoprop	82.7	89.6	P/P	59 - 110
1873539	Fenamiphos	104	89.7	P/P	57 - 138
1873539	Fipronil	115	101	P/P	40 - 130
1873539	Fipronil Sulfide	101	73.7	P/P	36 - 128
1873539	Fipronil Sulfone	88.0	59.4	P/P	16 - 145
1873539	Fonofos	82.3	91.2	P/P	60 - 112
1873539	Hexazinone	91.4	93.9	P/P	69 - 142
1873539	Malathion	93.2	87.7	P/P	68 - 132
1873539	Metalaxyl	95.6	106	P/P	66 - 118
1873539	Metolachlor	101	114	P/P	71 - 124
1873539	Metribuzin	114	119	P/P	61 - 140
1873539	Mevinphos	73.0	71.6	P/P	38 - 130
1873539	Molinate	60.0	86.4	P/P	23 - 99.0
1873539	Norflurazon	104	98.0	P/P	39 - 139
1873539	Parathion Ethyl	82.4	93.2	P/P	75 - 111
1873539	Parathion Methyl	90.8	92.3	P/P	64 - 130
1873539	Pendimethalin	91.9	107	P/P	26 - 173
1873539	Phorate	77.4	89.0	P/P	43 - 127

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
 Batch ID: P320075

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1873539	Prometon	94.9	105	P/P	50 - 144
1873539	Prometryn	99.5	108	P/P	69 - 126
1873539	Simazine	84.3	103	P/P	51 - 152
1873539	Terbufos	84.6	92.0	P/P	54 - 125
1873539	Terbuthylazine	86.5	99.8	P/P	76 - 113

Reference Method: EPA 8321B
 Batch ID: P319991

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1873584	Sucralose	78.9	63.0	P/P	40 - 140

Reference Method: EPA 8321B
 Batch ID: P320058

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1873536	Glyphosate	50.0	48.2	P/P	40 - 140

Reference Method: SM 4500 F-C-97
 Batch ID: P320221

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1873399	Fluoride	99.0	99.0	P/P	91 - 105

Reference Method: SM 5310 B-00
 Batch ID: P320099

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1873517	Organic Carbon	96.5	94.5	P/P	85 - 115

Reference Method: USGS O-2060-01
 Batch ID: P319949

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1873043	2,4,5-T	97.2	86.0	P/P	40 - 140
1873043	2,4-D	116	116	P/P	40 - 140
1873043	Acetaminophen	71.2	64.8	P/P	40 - 140
1873043	Acifluorfen	123	120	P/P	40 - 140
1873043	Carbamazepine	63.5	50.3	P/P	40 - 140
1873043	Diuron	34.8	34.4	F/F	40 - 140
1873043	Fenuron	45.6	47.6	P/P	40 - 140
1873043	Fluridone	27.6	30.3	F/F	40 - 140
1873043	Imidacloprid	94.0	89.2	P/P	40 - 160
1873043	Linuron	36.1	29.1	F/F	40 - 140
1873043	Primidone	53.6	53.6	P/P	40 - 140
1873043	Silvex	137	123	P/P	40 - 140

Quality Assurance Report Precision

Quality Assurance Report Precision

Reference Method: DEP SOP: GC-011-5 (based on EPA 608 and 617)
Batch ID: P320787

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873538	Toxaphene	0.603	Spike	P	0 - 30
LFB	Toxaphene	3.31	LCS	P	0 - 30

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P320076

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873516	Turbidity	3.45	Sample	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P320209

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873654	Arsenic	0.276	Spike	P	0 - 20
1873654	Cadmium	0.352	Spike	P	0 - 20
1873654	Copper	0.143	Spike	P	0 - 20
1873654	Lead	0.752	Spike	P	0 - 20
1873654	Nickel	0.129	Spike	P	0 - 20
1873654	Silver	2.34	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P320819

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873398	Sulfate	0.686	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P320911

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873398	Chloride	0.163	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P321008

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873976	Chloride	0.338	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P320318

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873517	Ammonia-N	1.51	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P320162

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873639	Kjeldahl Nitrogen	1.91	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P320463

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873331	NO2NO3-N	3.29	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P320464

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873857	NO2NO3-N	1.46	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P320825

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1875704	NO2NO3-N	0.518	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P320176

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873518	Total-P	1.85	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P320177

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873805	Total-P	0.668	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P320084

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873519	O-Phosphate-P	0.293	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P320075

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873539	Acetochlor	12.0	Spike	P	0 - 30
1873539	Alachlor	15.5	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P320075

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873539	Ametryn	4.62	Spike	P	0 - 30
1873539	Atrazine	7.47	Spike	P	0 - 30
1873539	Atrazine Desethyl	0.0272	Spike	P	0 - 30
1873539	Azinphos Methyl	13.6	Spike	P	0 - 30
1873539	Bromacil	4.91	Spike	P	0 - 30
1873539	Butylate	16.7	Spike	P	0 - 30
1873539	Chlorpyrifos Ethyl	10.2	Spike	P	0 - 30
1873539	Chlorpyrifos Methyl	5.83	Spike	P	0 - 30
1873539	Cyanazine	10.8	Spike	P	0 - 30
1873539	Demeton	0.715	Spike	P	0 - 30
1873539	Diazinon	32.5	Spike	F	0 - 30
1873539	Disulfoton	2.98	Spike	P	0 - 30
1873539	EPTC	8.66	Spike	P	0 - 30
1873539	Ethion	0.269	Spike	P	0 - 30
1873539	Ethoprop	7.96	Spike	P	0 - 30
1873539	Fenamiphos	14.8	Spike	P	0 - 30
1873539	Fipronil	12.1	Spike	P	0 - 30
1873539	Fipronil Sulfide	30.9	Spike	F	0 - 30
1873539	Fipronil Sulfone	38.9	Spike	F	0 - 30
1873539	Fonofos	10.3	Spike	P	0 - 30
1873539	Hexazinone	1.98	Spike	P	0 - 30
1873539	Malathion	6.09	Spike	P	0 - 30
1873539	Metaxyl	9.88	Spike	P	0 - 30
1873539	Metolachlor	12.2	Spike	P	0 - 30
1873539	Metribuzin	4.28	Spike	P	0 - 30
1873539	Mevinphos	1.89	Spike	P	0 - 30
1873539	Molinate	36.1	Spike	F	0 - 30
1873539	Norflurazon	5.60	Spike	P	0 - 30
1873539	Parathion Ethyl	12.3	Spike	P	0 - 30
1873539	Parathion Methyl	1.57	Spike	P	0 - 30
1873539	Pendimethalin	14.9	Spike	P	0 - 30
1873539	Phorate	14.0	Spike	P	0 - 30
1873539	Prometon	7.23	Spike	P	0 - 30
1873539	Prometryn	8.06	Spike	P	0 - 30
1873539	Simazine	20.2	Spike	P	0 - 30
1873539	Terbufos	8.33	Spike	P	0 - 30
1873539	Terbuthylazine	14.4	Spike	P	0 - 30
LFB	Acetochlor	10.8	LCS	P	0 - 30
LFB	Alachlor	11.1	LCS	P	0 - 30
LFB	Ametryn	18.2	LCS	P	0 - 30
LFB	Atrazine	0.0711	LCS	P	0 - 30
LFB	Atrazine Desethyl	32.0	LCS	F	0 - 30
LFB	Azinphos Methyl	27.7	LCS	P	0 - 30
LFB	Bromacil	23.9	LCS	P	0 - 30
LFB	Butylate	16.2	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	4.50	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	9.44	LCS	P	0 - 30
LFB	Cyanazine	69.5	LCS	F	0 - 30
LFB	Demeton	0.250	LCS	P	0 - 30
LFB	Diazinon	13.8	LCS	P	0 - 30
LFB	Disulfoton	6.16	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P320075

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	EPTC	21.7	LCS	P	0 - 30
LFB	Ethion	2.84	LCS	P	0 - 30
LFB	Ethoprop	12.7	LCS	P	0 - 30
LFB	Fenamiphos	11.9	LCS	P	0 - 30
LFB	Fipronil	14.2	LCS	P	0 - 30
LFB	Fipronil Sulfide	10.6	LCS	P	0 - 30
LFB	Fipronil Sulfone	6.55	LCS	P	0 - 30
LFB	Fonofos	2.24	LCS	P	0 - 30
LFB	Hexazinone	5.58	LCS	P	0 - 30
LFB	Malathion	1.61	LCS	P	0 - 30
LFB	Metalaxyl	6.78	LCS	P	0 - 30
LFB	Metolachlor	1.95	LCS	P	0 - 30
LFB	Metribuzin	12.1	LCS	P	0 - 30
LFB	Mevinphos	7.72	LCS	P	0 - 30
LFB	Molinate	12.3	LCS	P	0 - 30
LFB	Norflurazon	13.8	LCS	P	0 - 30
LFB	Parathion Ethyl	4.28	LCS	P	0 - 30
LFB	Parathion Methyl	10.4	LCS	P	0 - 30
LFB	Pendimethalin	0.821	LCS	P	0 - 30
LFB	Phorate	6.78	LCS	P	0 - 30
LFB	Prometon	14.8	LCS	P	0 - 30
LFB	Prometryn	12.8	LCS	P	0 - 30
LFB	Simazine	16.4	LCS	P	0 - 30
LFB	Terbufos	2.36	LCS	P	0 - 30
LFB	Terbutylazine	5.36	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P319991

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873584	Sucralose	22.4	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P320058

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873536	Glyphosate	3.67	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P320077

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873515	Color (true)	1.91	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-97
Batch ID: P320217

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873399	Total Alkalinity	0.0611	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P320523

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873516	TDS	3.62	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P320221

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873399	Fluoride	0.0	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P320099

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873517	Organic Carbon	1.55	Spike	P	0 - 20

Reference Method: USGS O-2060-01
Batch ID: P319949

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1873043	2,4,5-T	12.2	Spike	P	0 - 30
1873043	2,4-D	0.690	Spike	P	0 - 30
1873043	Acetaminophen	9.41	Spike	P	0 - 30
1873043	Acifluorfen	2.64	Spike	P	0 - 30
1873043	Bentazon	11.0	Spike	P	0 - 30
1873043	Carbamazepine	17.5	Spike	P	0 - 30
1873043	Diuron	1.04	Spike	P	0 - 30
1873043	Fenuron	4.29	Spike	P	0 - 30
1873043	Fluridone	9.54	Spike	P	0 - 30
1873043	Imidacloprid	5.24	Spike	P	0 - 30
1873043	Linuron	21.6	Spike	P	0 - 30
1873043	Primidone	0.0	Spike	P	0 - 30
1873043	Silvex	10.8	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

Quality Assurance Report Surrogates

Lab Sample ID: 1873534
Field Sample ID: G1NE0557 02162017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	97.5	P	40 - 150
USGS O-2060-01	Acetaminophen-d4	71.8	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	58.6	P	40 - 160
USGS O-2060-01	Diuron-d6	48.4	P	40 - 150
USGS O-2060-01	Primidone-d5	80.8	P	40 - 150

Lab Sample ID: 1873535
Field Sample ID: G1NE0018 02162017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	88.0	P	40 - 150
USGS O-2060-01	Acetaminophen-d4	64.8	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	49.8	P	40 - 160
USGS O-2060-01	Diuron-d6	43.8	P	40 - 150
USGS O-2060-01	Primidone-d5	60.2	P	40 - 150

Lab Sample ID: 1873536
Field Sample ID: G1NE0631 02162017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Glyphosate 13C 15N	55.0	P	50 - 150
EPA 8321B	Sucralose-d6	96.5	P	40 - 150
USGS O-2060-01	2,4-D-d3	118	P	40 - 150

Lab Sample ID: 1873538
Field Sample ID: G1NE0631 02162017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: GC-011-5 (based on EPA 608 and 617)	Decachlorobiphenyl	108	P	41 - 134

Lab Sample ID: 1873539
Field Sample ID: G1NE0631 02162017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	116	P	62 - 132
EPA 8270D	Simazine-d10	98.8	P	72 - 127

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A74556
Included Lab Sample IDs: 1873515, 1873516, 1873521

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

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B

Run ID: A74558

Included Lab Sample IDs: 1873515, 1873516, 1873521

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	94.5	96.5	P/P	85 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A74564

Included Lab Sample IDs: 1873519, 1873520, 1873524

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.2	97.5	P/P	90 - 110
O-Phosphate-P	97.5	97.1	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A74569

Included Lab Sample IDs: 1873517, 1873518, 1873523

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.8	96.2	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A74589

Included Lab Sample IDs: 1873534, 1873535, 1873536

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	119	85.8	P/P	60 - 150

Reference Method: USGS O-2060-01

Run ID: A74598

Included Lab Sample IDs: 1873534, 1873535

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetaminophen	87.6	94.8	P/P	60 - 150
Carbamazepine	140	136	P/P	60 - 150
Diuron	98.0	101	P/P	60 - 150
Fenuron	110	109	P/P	60 - 150
Fluridone	81.6	76.4	P/P	60 - 150
Imidacloprid	86.8	93.6	P/P	60 - 150
Linuron	86.4	91.2	P/P	60 - 150
Primidone	113	112	P/P	60 - 150

Reference Method: SM 2320 B-97

Run ID: A74621

Included Lab Sample IDs: 1873515, 1873516, 1873521

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

Reference Method: SM 4500 F-C-97

Run ID: A74621

Included Lab Sample IDs: 1873515, 1873516, 1873521

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	108	98.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A74637

Included Lab Sample IDs: 1873536

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Glyphosate	103	112	P/P	70 - 130

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A74639

Included Lab Sample IDs: 1873517, 1873518, 1873523

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	99.3	P/P	90 - 110
Kjeldahl Nitrogen	102	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A74644

Included Lab Sample IDs: 1873518, 1873523

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	103	98.4	P/P	90 - 110
Total-P	97.6	103	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A74655

Included Lab Sample IDs: 1873517, 1873518, 1873523

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A74681

Included Lab Sample IDs: 1873537

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	95.2	93.3	P/P	90 - 110
Cadmium	92.1	91.9	P/P	90 - 110
Copper	96.3	94.2	P/P	90 - 110
Lead	92.7	92.6	P/P	90 - 110
Nickel	98.1	94.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A74682

Included Lab Sample IDs: 1873517

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A74706

Included Lab Sample IDs: 1873517, 1873518

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.0	97.0	P/P	90 - 110
NO2NO3-N	99.5	98.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: USGS O-2060-01

Run ID: A74734

Included Lab Sample IDs: 1873536

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4,5-T	84.4	77.0	P/P	50 - 150
2,4-D	81.2	97.6	P/P	50 - 150
Acifluorfen	86.6	88.8	P/P	50 - 150
Bentazon	91.4	113	P/P	50 - 150
Silvex	87.4	93.0	P/P	50 - 150

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A74765

Included Lab Sample IDs: 1873515, 1873516, 1873521

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfate	105	100	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A74817

Included Lab Sample IDs: 1873537

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Silver	95.2	94.3	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A74836

Included Lab Sample IDs: 1873523

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	101	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A74874

Included Lab Sample IDs: 1873515, 1873516, 1873521

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	93.8	96.9	P/P	90 - 110
Chloride	96.0	94.3	P/P	90 - 110

Reference Method: EPA 8270D

Run ID: A74925

Included Lab Sample IDs: 1873539

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	99.6		P	80 - 120
Alachlor	100		P	80 - 120
Ametryn	92.3		P	80 - 120
Atrazine	104		P	80 - 120
Atrazine Desethyl	97.9		P	80 - 120
Azinphos Methyl	93.5		P	80 - 120
Bromacil	99.6		P	80 - 120
Butylate	104		P	80 - 120
Chlorpyrifos Ethyl	96.2		P	80 - 120
Chlorpyrifos Methyl	96.8		P	80 - 120
Cyanazine	81.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A74925

Included Lab Sample IDs: 1873539

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Demeton	101		P	80 - 120
Diazinon	95.6		P	80 - 120
Disulfoton	92.9		P	80 - 120
EPTC	101		P	80 - 120
Ethion	92.2		P	80 - 120
Ethoprop	97.6		P	80 - 120
Fenamiphos	97.5		P	80 - 120
Fipronil	97.7		P	80 - 120
Fipronil Sulfide	93.6		P	80 - 120
Fipronil Sulfone	97.4		P	80 - 120
Fonofos	91.9		P	80 - 120
Hexazinone	98.6		P	80 - 120
Malathion	96.8		P	80 - 120
Metaxyl	100		P	80 - 120
Metolachlor	101		P	80 - 120
Metribuzin	94.8		P	80 - 120
Mevinphos	100		P	80 - 120
Molinate	96.2		P	80 - 120
Norflurazon	99.7		P	80 - 120
Parathion Ethyl	94.3		P	80 - 120
Parathion Methyl	95.6		P	80 - 120
Pendimethalin	94.1		P	80 - 120
Phorate	98.5		P	80 - 120
Prometon	97.1		P	80 - 120
Prometryn	98.6		P	80 - 120
Simazine	98.7		P	80 - 120
Terbufos	92.3		P	80 - 120
Terbutylazine	95.5		P	80 - 120

Reference Method: DEP SOP: GC-011-5 (based on EPA 608 and 617)

Run ID: A75013

Included Lab Sample IDs: 1873538

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	111	105	P/P	85 - 115
Alpha-BHC	112	105	P/P	85 - 115
Alpha-Chlordane	113	107	P/P	85 - 115
Beta-BHC	114	107	P/P	85 - 115
Carbophenothion	98.7	89.8*	P/F	90 - 110
Chlordane	96.7	94.6	P/P	85 - 115
Chlorothalonil	108	98.8	P/P	90 - 110
Cypermethrin	101	91.9	P/P	85 - 115
DDD-p,p'	111	108	P/P	85 - 115
DDE-p,p'	111	105	P/P	85 - 115
DDT-p,p'	113	101	P/P	85 - 115
Delta-BHC	113	107	P/P	85 - 115
Dicofol	106	127*	P/F	90 - 110
Dieldrin	113	107	P/P	85 - 115
Endosulfan I	114	108	P/P	85 - 115
Endosulfan II	115	109	P/P	85 - 115
Endosulfan Sulfate	115	106	P/P	85 - 115

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: GC-011-5 (based on EPA 608 and 617)

Run ID: A75013

Included Lab Sample IDs: 1873538

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endrin	112	107	P/P	85 - 115
Endrin Aldehyde	114	107	P/P	85 - 115
Endrin Ketone	116*	114	F/P	85 - 115
Gamma-BHC	114	107	P/P	85 - 115
Gamma-Chlordane	113	106	P/P	85 - 115
Heptachlor	114	108	P/P	85 - 115
Heptachlor Epoxide	113	108	P/P	85 - 115
Hexachlorobenzene	103	93.1	P/P	85 - 115
Hexachlorocyclopentadiene	104	93.1	P/P	85 - 115
Methoxychlor	115*	105	F/P	90 - 110
Mirex	108	98.4	P/P	90 - 110
Permethrin	104	97.5	P/P	90 - 110
Toxaphene	103	104	P/P	85 - 115
Trifluralin	104	93.2	P/P	90 - 110

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			LCS	Precision SMP	MS
DEP SOP: GC-011-5 (based on EPA 608 and 617)	Toxaphene	103	107	122	120		3.31		0.603
EPA 180.1 Rev. 2.0	Turbidity							3.45	
EPA 200.8 Rev. 5.4	Arsenic	92.6		86.6	89.1	88.9			0.276
	Cadmium	90.5		87.1	86.8	87.1			0.352
	Copper	93.2		87.6	90.3	90.5			0.143
	Lead	92.2		88.9	88.9	88.2			0.752
	Nickel	94.2		88.0	90.1	90.0			0.129
	Silver	85.6		83.0	85.0	83.6			2.34
EPA 300.0 Rev. 2.1	Chloride	96.6		97.1	95.4			0.163	
	Chloride	95.7		93.5				0.338	
	Sulfate	103		104	102			0.686	
EPA 350.1 Rev. 2.0	Ammonia-N	102		100	98.4				1.51
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	109		100	96.6				1.91
EPA 353.2 Rev. 2.0	NO2NO3-N	102		100	104				3.29
	NO2NO3-N	100		102	104				1.46
	NO2NO3-N	103		96.4	96.9				0.518
EPA 365.1 Rev. 2.0	Total-P	95.6							1.85
	Total-P	94.8		94.5	93.8				0.668
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100		97.8	98.1				0.293
EPA 8270D	Acetochlor	101	90.7	103	116		10.8		12.0
	Alachlor	99.8	89.4	100	117		11.1		15.5
	Ametryn	107	89.4	109	115		18.2		4.62
	Atrazine	86.2	86.2	88.9	97.4		0.0711		7.47
	Atrazine Desethyl	83.3	60.3	81.7	81.7		32.0		0.0272
	Azinphos Methyl	139	105	121	139		27.7		13.6

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Bromacil	113	88.8	106	114	23.9	4.91
	Butylate	55.7	65.6	61.2	72.4	16.2	16.7
	Chlorpyrifos Ethyl	88.9	85.0	88.3	97.8	4.50	10.2
	Chlorpyrifos Methyl	87.6	79.7	87.4	92.7	9.44	5.83
	Cyanazine	199	96.2	143	128	69.5	10.8
	Demeton	85.8	86.0	91.8	92.4	0.250	0.715
	Diazinon	103	89.7	99.3	138	13.8	32.5
	Disulfoton	97.3	91.5	103	106	6.16	2.98
	EPTC	51.9	64.6	63.2	68.9	21.7	8.66
	Ethion	85.2	82.8	85.3	85.5	2.84	0.269
	Ethoprop	77.8	68.5	82.7	89.6	12.7	7.96
	Fenamiphos	105	93.4	104	89.7	11.9	14.8
	Fipronil	112	97.3	115	101	14.2	12.1
	Fipronil Sulfide	93.5	84.1	73.7	101	10.6	30.9
	Fipronil Sulfone	77.3	82.6	88.0	59.4	6.55	38.9
	Fonofos	77.6	75.9	91.2	82.3	2.24	10.3
	Hexazinone	89.0	84.1	93.9	91.4	5.58	1.98
	Malathion	85.3	86.7	87.7	93.2	1.61	6.09
	Metalaxyl	97.8	91.4	106	95.6	6.78	9.88
	Metolachlor	93.6	91.8	114	101	1.95	12.2
	Metribuzin	83.0	73.5	119	114	12.1	4.28
	Mevinphos	68.8	63.7	71.6	73.0	7.72	1.89
	Molinate	55.5	62.8	86.4	60.0	12.3	36.1
	Norflurazon	102	88.9	98.0	104	13.8	5.60
	Parathion Ethyl	86.8	83.2	82.4	93.2	4.28	12.3
	Parathion Methyl	97.2	87.6	90.8	92.3	10.4	1.57
	Pendimethalin	84.7	85.4	107	91.9	0.821	14.9
	Phorate	75.2	70.3	89.0	77.4	6.78	14.0
	Prometon	93.1	80.3	105	94.9	14.8	7.23
	Prometryn	100	88.0	108	99.5	12.8	8.06
	Simazine	96.4	81.8	103	84.3	16.4	20.2
	Terbufos	77.6	75.8	92.0	84.6	2.36	8.33
	Terbutylazine	82.4	86.9	99.8	86.5	5.36	14.4
EPA 8321B	Glyphosate	96.0		50.0	48.2		3.67
	Sucralose	99.9		78.9	63.0		22.4
SM 2120 B	Color (true)					1.91	
SM 2320 B-97	Total Alkalinity	103				0.0611	
SM 2540 C-97	TDS					3.62	
SM 4500 F-C-97	Fluoride	96.6		99.0	99.0		0.0
SM 5310 B-00	Organic Carbon	93.7		96.5	94.5		1.55
USGS O-2060-01	2,4,5-T	71.6		97.2	86.0		12.2
	2,4-D	76.4		116	116		0.690
	Acetaminophen	73.2		71.2	64.8		9.41
	Acifluorfen	46.4		123	120		2.64
	Bentazon	102					11.0
	Carbamazepine	125		63.5	50.3		17.5
	Diuron	78.8		34.8	34.4		1.04
	Fenuron	98.8		45.6	47.6		4.29
	Fluridone	53.2		27.6	30.3		9.54
	Imidacloprid	85.2		94.0	89.2		5.24
	Linuron	65.6		36.1	29.1		21.6
	Primidone	89.2		53.6	53.6		0.0
	Silvex	84.8		137	123		10.8

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
DEP SOP: GC-011-5 (based on EPA 608 and 617) / E31780	Organochlorine pesticides (low levels) in water matrices by GC/ECD.	1873538
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1873515, 1873516, 1873521
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1873537
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1873515, 1873516, 1873521
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1873515, 1873516, 1873521
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1873517, 1873518, 1873523
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1873517, 1873518, 1873523
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1873517, 1873518, 1873523
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1873517, 1873518, 1873523
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1873519, 1873520, 1873524
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1873539
EPA 8321B / E31780	Glyphosate in water matrices by HPLC/MS/MS	1873536
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	1873534, 1873535, 1873536
SM 2120 B / E31780	True Color measured at 450 nm	1873515, 1873516, 1873521
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1873515, 1873516, 1873521
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1873515, 1873516, 1873521
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1873515, 1873516, 1873521
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1873515, 1873516, 1873521
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1873517, 1873518, 1873523
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1873536
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1873534, 1873535

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: GC-011-5 (based on EPA 608 and 617)	02/17/2017	02/22/2017	Rasheda Ghaffari	03/02/2017	Vandana T. Nagar	1873538
EPA 180.1 Rev. 2.0	02/17/2017			02/17/2017 13:56	Julie Michelle Frank	1873515, 1873516, 1873521
EPA 200.8 Rev. 5.4	02/17/2017	02/21/2017	Michael I. Thompson	02/22/2017	Betina Topolski	1873537
	02/17/2017	02/21/2017	Michael I. Thompson	03/01/2017	Betina Topolski	1873537
EPA 300.0 Rev. 2.1	02/17/2017			03/01/2017	Ping Hua	1873515, 1873516, 1873521
	02/17/2017			03/02/2017	Ping Hua	1873521
	02/17/2017			03/03/2017	Ping Hua	1873515, 1873516
EPA 350.1 Rev. 2.0	02/17/2017			02/22/2017	Sofia Elnemr	1873517, 1873518, 1873523
EPA 351.2 Rev. 2.0	02/17/2017	02/21/2017	Adrian Shelby	02/22/2017	Joseph Suarez	1873517, 1873518, 1873523
EPA 353.2 Rev. 2.0	02/17/2017			02/24/2017	Beverly Y. Sanders	1873517, 1873518
	02/17/2017			03/02/2017	Beverly Y. Sanders	1873523
EPA 365.1 Rev. 2.0	02/17/2017	02/21/2017	Adrian Shelby	02/22/2017	Lipi Saha	1873518, 1873523
	02/17/2017	02/21/2017	Adrian Shelby	02/23/2017	Lipi Saha	1873517
EPA 365.1 Rev. 2.0 dissolved	02/17/2017			02/17/2017 16:17	Julia Storbeck	1873519
	02/17/2017			02/17/2017 16:32	Julia Storbeck	1873524
	02/17/2017			02/17/2017 16:34	Julia Storbeck	1873520
EPA 8270D	02/17/2017	02/20/2017	Fe-Val Siddell	03/01/2017	Marek Topolski	1873539
EPA 8321B	02/17/2017	02/20/2017	Mohammad Ghaffari	02/20/2017	Mohammad Ghaffari	1873534, 1873535, 1873536
	02/17/2017	02/22/2017	Mohammad Ghaffari	02/22/2017	Mohammad Ghaffari	1873536
SM 2120 B	02/17/2017			02/17/2017 14:23	Julie Michelle Frank	1873515
	02/17/2017			02/17/2017 14:24	Julie Michelle Frank	1873516
	02/17/2017			02/17/2017 14:25	Julie Michelle Frank	1873521
SM 2320 B-97	02/17/2017			02/21/2017	Dale L. Simmons	1873515, 1873516, 1873521
SM 2540 C-97	02/17/2017			02/20/2017	Yijie Li	1873515, 1873516, 1873521
SM 2540 D-97	02/17/2017			02/20/2017	Yijie Li	1873515, 1873516, 1873521
SM 4500 F-C-97	02/17/2017			02/21/2017	Dale L. Simmons	1873515, 1873516, 1873521
SM 5310 B-00	02/17/2017			02/17/2017	Julie Michelle Frank	1873517, 1873518, 1873523
USGS O-2060-01	02/17/2017	02/20/2017	Hoor Shaik	02/21/2017	Juyoung Kim	1873534, 1873535
	02/17/2017	02/20/2017	Hoor Shaik	02/25/2017	Juyoung Kim	1873536