

Chemical Analysis Report

SE-DIST-2017-05-25-01

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

Event Description: **SMP-G3 E-canals**
Request ID: **RQ-2017-05-22-14**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
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2199 South Rock Road
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Certified by: Thekkekalathil Chandrasekhar, Chemist Administrator Date Certified: 19-JUN-2017 14:51



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: TCW @ Palmetto Park

Collection Date/Time: 05/24/2017 12:30

Field ID: 28010770

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1901718	EPA 180.1 Rev. 2.0	Turbidity	0.40		NTU	P325847	
	SM 2320 B-97	Total Alkalinity	125		mg CaCO3/L	P325954	
	SM 2540 D-97	TSS	11		mg/L	P326350	
	SM 4500 F-C-97	Fluoride	1.3		mg F/L	P325958	
1901719	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P326127	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.25	I	mg N/L	P325942	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P326085	
	EPA 365.1 Rev. 2.0	Total-P	0.012	J	mg P/L	P325943	MS
	SM 5310 B-00	Organic Carbon	1.4	I	mg C/L	P326241	
1901720	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P325854	

Ref. Method and Comment:

SM 2540 D-97: The sample was reanalyzed on 06/12/2017. The result was 8 IQ mg/L.

EPA 365.1 Rev. 2.0: Total-P: Refer to the narrative for an explanation of QC Codes.

Sample Location: E-3 Canal @ Glades Rd

Collection Date/Time: 05/24/2017 13:10

Field ID: 32013006

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1901697	EPA 180.1 Rev. 2.0	Turbidity	1.0		NTU	P325846	
	EPA 300.0 Rev. 2.1	Chloride	70		mg Cl/L	P326763	
		Sulfate	29		mg SO4/L	P326766	
	SM 2120 B	Color (true)	88		PCU	P325851	
	SM 2320 B-97	Total Alkalinity	182		mg CaCO3/L	P326074	
	SM 2540 C-97	TDS	392	A	mg/L	P326434	
	SM 2540 D-97	TSS	2	UA	mg/L	P326348	
	SM 4500 F-C-97	Fluoride	0.29		mg F/L	P326076	RPD
1901701	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P325920	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.91		mg N/L	P325940	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	I	mg N/L	P325964	
	EPA 365.1 Rev. 2.0	Total-P	0.024		mg P/L	P325944	
	SM 5310 B-00	Organic Carbon	13		mg C/L	P326079	
1901705	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P325853	
1901736	EPA 200.7 Rev. 4.4	Calcium	76.6		mg/L	P325995	
		Iron	30	U	ug/L	P325995	
		Magnesium	7.49		mg/L	P325995	
		Potassium	5.6		mg/L	P325995	
		Sodium	50.3		mg/L	P325995	
		Zinc	5.0	U	ug/L	P325995	
	EPA 200.8 Rev. 5.4	Arsenic	1.36		ug/L	P325995	
		Cadmium	0.020	U	ug/L	P325995	
		Chromium	0.40	U	ug/L	P325995	
		Copper	2.18		ug/L	P325995	
		Lead	0.050	U	ug/L	P326641	
		Nickel	0.28	I	ug/L	P325995	

Field ID: 32013006

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1901736	EPA 200.8 Rev. 5.4	Silver	0.010	U	ug/L	P325995	

Ref. Method and Comment:

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

Sample Location: E-3 Canal @ Clint Moore Rd

Collection Date/Time: 05/24/2017 13:35

Field ID: 28010165

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1901698	EPA 180.1 Rev. 2.0	Turbidity	2.5		NTU	P325846	
	EPA 300.0 Rev. 2.1	Chloride	100		mg Cl/L	P326763	
		Sulfate	32		mg SO4/L	P326766	
	SM 2120 B	Color (true)	78		PCU	P325851	
	SM 2320 B-97	Total Alkalinity	176		mg CaCO3/L	P326074	
	SM 2540 C-97	TDS	465		mg/L	P326434	
	SM 2540 D-97	TSS	5	I	mg/L	P326348	
	SM 4500 F-C-97	Fluoride	0.27		mg F/L	P326076	RPD
1901702	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P325920	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.6		mg N/L	P325940	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P325964	
	EPA 365.1 Rev. 2.0	Total-P	0.14		mg P/L	P325944	
	SM 5310 B-00	Organic Carbon	23		mg C/L	P326079	
1901706	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.087		mg P/L	P325855	
1901737	EPA 200.7 Rev. 4.4	Calcium	66.5		mg/L	P325995	
		Iron	30	U	ug/L	P325995	
		Magnesium	13.2		mg/L	P325995	
		Potassium	9.8		mg/L	P325995	
		Sodium	75.3		mg/L	P325995	
		Zinc	5.0	U	ug/L	P325995	
	EPA 200.8 Rev. 5.4	Arsenic	1.65		ug/L	P325995	
		Cadmium	0.020	U	ug/L	P325995	
		Chromium	0.40	U	ug/L	P325995	
		Copper	2.31		ug/L	P325995	
		Lead	0.057	I	ug/L	P326641	
		Nickel	0.32	I	ug/L	P325995	
		Silver	0.010	U	ug/L	P325995	

Ref. Method and Comment:

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

Sample Location: E-4 Canal @ Clint Moore Rd

Collection Date/Time: 05/24/2017 13:50

Field ID: 28042459

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1901715	EPA 180.1 Rev. 2.0	Turbidity	2.5	A	NTU	P325847	
	EPA 300.0 Rev. 2.1	Chloride	36		mg Cl/L	P326765	
		Sulfate	10		mg SO4/L	P326768	
	SM 2120 B	Color (true)	83		PCU	P325851	

Field ID: 28042459

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1901715	SM 2320 B-97	Total Alkalinity	184		mg CaCO3/L	P326075	
	SM 2540 C-97	TDS	313		mg/L	P326435	
	SM 2540 D-97	TSS	7	I	mg/L	P326349	
	SM 4500 F-C-97	Fluoride	0.14		mg F/L	P326077	
1901716	EPA 350.1 Rev. 2.0	Ammonia-N	0.11		mg N/L	P325920	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P325940	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.027		mg N/L	P325965	
	EPA 365.1 Rev. 2.0	Total-P	0.17		mg P/L	P325945	
	SM 5310 B-00	Organic Carbon	15		mg C/L	P326079	
1901717	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.069		mg P/L	P325855	
1901741	EPA 200.7 Rev. 4.4	Calcium	80.3		mg/L	P325995	
		Iron	770		ug/L	P325995	
		Magnesium	2.71		mg/L	P325995	
		Potassium	2.7		mg/L	P325995	
		Sodium	22.6		mg/L	P325995	
		Zinc	5.0	U	ug/L	P325995	
	EPA 200.8 Rev. 5.4	Arsenic	1.27		ug/L	P325995	
		Cadmium	0.020	U	ug/L	P325995	
		Chromium	1.1	I	ug/L	P325995	
		Copper	1.50		ug/L	P325995	
		Lead	0.19	I	ug/L	P326641	
		Nickel	0.23	I	ug/L	P325995	
		Silver	0.010	U	ug/L	P325995	

Ref. Method and Comment:

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

Sample Location: E-3 Canal @ Atlantic Ave

Collection Date/Time: 05/24/2017 09:45

Field ID: 28010164

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1901699	EPA 180.1 Rev. 2.0	Turbidity	0.95		NTU	P325846	
	EPA 300.0 Rev. 2.1	Chloride	82		mg Cl/L	P326709	
		Sulfate	37		mg SO4/L	P326766	
	SM 2120 B	Color (true)	51	A	PCU	P325851	
1901703	SM 2320 B-97	Total Alkalinity	93		mg CaCO3/L	P326075	
	SM 2540 C-97	TDS	315		mg/L	P326435	
	SM 2540 D-97	TSS	2	U	mg/L	P326349	
	SM 4500 F-C-97	Fluoride	0.23		mg F/L	P326077	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P325920	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P325940	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P325964	
1901707	EPA 365.1 Rev. 2.0	Total-P	0.023		mg P/L	P325944	
	SM 5310 B-00	Organic Carbon	17		mg C/L	P326079	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P325855	
	EPA 200.7 Rev. 4.4	Calcium	41.1		mg/L	P325995	

Field ID: 28010164

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1901738	EPA 200.7 Rev. 4.4	Iron	30	U	ug/L	P325995	
		Magnesium	8.49		mg/L	P325995	
		Potassium	9.5		mg/L	P325995	
		Sodium	54.8		mg/L	P325995	
		Zinc	5.0	U	ug/L	P325995	
	EPA 200.8 Rev. 5.4	Arsenic	1.74		ug/L	P325995	
		Cadmium	0.020	U	ug/L	P325995	
		Chromium	0.40	U	ug/L	P325995	
		Copper	3.51		ug/L	P325995	
		Lead	0.050	U	ug/L	P326641	
		Nickel	0.43	I	ug/L	P325995	
		Silver	0.010	U	ug/L	P325995	

Ref. Method and Comment:

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

Sample Location: E-2 Canal West @ Atlantic Ave

Collection Date/Time: 05/24/2017 10:00

Field ID: 32012014

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1901712	EPA 180.1 Rev. 2.0	Turbidity	3.7		NTU	P325846	
	EPA 300.0 Rev. 2.1	Chloride	110		mg Cl/L	P326709	
		Sulfate	30		mg SO4/L	P326766	
		Color (true)	88		PCU	P325851	
	SM 2320 B-97	Total Alkalinity	179		mg CaCO3/L	P326075	
	SM 2540 C-97	TDS	455		mg/L	P326435	
	SM 2540 D-97	TSS	6	I	mg/L	P326349	
	SM 4500 F-C-97	Fluoride	0.29		mg F/L	P326077	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.030		mg N/L	P325920	
		Kjeldahl Nitrogen	1.9		mg N/L	P325940	
1901713	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	I	mg N/L	P325965	
	EPA 365.1 Rev. 2.0	Total-P	0.32		mg P/L	P325944	
	SM 5310 B-00	Organic Carbon	24		mg C/L	P326079	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.22		mg P/L	P325855	
	EPA 8321B	Glyphosate**	10	U	ug/L	P325790	
		Pyraclostrobin**	0.0040	U	ug/L	P325788	
		Sucralose**	0.12		ug/L	P325805	
	USGS O-2060-01	2,4-D	0.68		ug/L	P325956	
		Diuron	0.0055		ug/L	P325956	
		Fenuron	1.4		ug/L	P325956	
		Imidacloprid	0.018	J	ug/L	P325956	MS
		Bentazon	0.023	J	ug/L	P325956	MS
		Linuron	0.0040	U	ug/L	P325956	
		Acetaminophen**	0.0080	U	ug/L	P325956	
		MCP	0.0020	U	ug/L	P325956	
		Carbamazepine**	4.0E-04	U	ug/L	P325956	

Field ID: 32012014

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1901733	USGS O-2060-01	Triclopyr**	0.0040	U	ug/L	P325956	
		Primidone**	0.0040	U	ug/L	P325956	
		Fluridone**	0.049		ug/L	P325956	
1901734	EPA 8270D	Aldrin	4.3	UJ	ng/L	P326163	SUR
		Alpha-BHC	2.1	UJ	ng/L	P326163	SUR
		Beta-BHC	4.3	UJ	ng/L	P326163	SUR
		Delta-BHC	4.3	UJ	ng/L	P326163	SUR
		Gamma-BHC	4.3	UJ	ng/L	P326163	SUR
		Carbophenothion	4.3	UJ	ng/L	P326163	SUR
		Chlorothalonil	2.1	UJ	ng/L	P326163	CCV, RPD, SUR
		Cypermethrin	21	UJ	ng/L	P326163	SUR
		DDD-p,p'	2.1	UJ	ng/L	P326163	SUR
		DDE-p,p'	3.2	UJ	ng/L	P326163	SUR
		DDT-p,p'	3.2	UJ	ng/L	P326163	SUR
		Dieldrin	4.3	UJ	ng/L	P326163	SUR
		Endosulfan I	4.3	UJ	ng/L	P326163	SUR
		Endosulfan II	4.3	UJ	ng/L	P326163	SUR
		Endosulfan Sulfate	2.1	UJ	ng/L	P326163	SUR
		Endrin	2.1	UJ	ng/L	P326163	SUR
		Endrin Aldehyde	2.1	UJ	ng/L	P326163	SUR
		Heptachlor	1.6	UJ	ng/L	P326163	SUR
		Heptachlor Epoxide	2.1	UJ	ng/L	P326163	SUR
		Methoxychlor	4.3	UJ	ng/L	P326163	SUR
		Mirex	2.1	UJ	ng/L	P326163	SUR
		Permethrin	11	UJ	ng/L	P326163	RPD, SUR
		Trifluralin	1.1	UJ	ng/L	P326163	SUR
		Alpha-Chlordane	1.1	UJ	ng/L	P326163	SUR
		Gamma-Chlordane	1.1	UJ	ng/L	P326163	SUR
		Endrin Ketone	2.1	UJ	ng/L	P326163	SUR
		Dicofol	32	UJ	ng/L	P326163	SUR
	EPA 8276	Toxaphene**	13	U	ng/L	P326163	
1901735	EPA 8270D	Alachlor	0.25	U	ng/L	P325833	
		Ametryn	10		ng/L	P325833	
		Atrazine	43		ng/L	P325833	
		Atrazine Desethyl	5.3	I	ng/L	P325833	RPD
		Azinphos Methyl	2.2	U	ng/L	P325833	
		Bromacil	0.50	U	ng/L	P325833	
		Butylate	0.40	U	ng/L	P325833	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P325833	
		Chlorpyrifos Methyl	0.099	U	ng/L	P325833	
		Demeton	2.0	U	ng/L	P325833	
		Diazinon	0.12	U	ng/L	P325833	
		Disulfoton	0.32	U	ng/L	P325833	
		EPTC	1.2	U	ng/L	P325833	

Field ID: 32012014

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1901735	EPA 8270D	Ethion	0.15	U	ng/L	P325833	
		Ethoprop	0.099	U	ng/L	P325833	MS
		Fenamiphos	0.25	U	ng/L	P325833	
		Fipronil	0.25	U	ng/L	P325833	
		Fipronil Sulfide	0.15	U	ng/L	P325833	
		Fipronil Sulfone	0.15	U	ng/L	P325833	
		Hexazinone	6.1		ng/L	P325833	
		Malathion	0.35	U	ng/L	P325833	
		Metribuzin	1.0		ng/L	P325833	
		Mevinphos	0.50	U	ng/L	P325833	
		Molinate	0.30	U	ng/L	P325833	
		Norflurazon	0.50	U	ng/L	P325833	
		Pendimethalin	1.5	U	ng/L	P325833	
		Phorate	0.25	UJ	ng/L	P325833	RPD
		Prometon	0.89	U	ng/L	P325833	
		Prometryn	0.37	I	ng/L	P325833	
		Simazine	7.7		ng/L	P325833	
		Terbufos	0.099	U	ng/L	P325833	
		Terbuthylazine	0.42	U	ng/L	P325833	
		Fonofos	0.20	U	ng/L	P325833	
		Metalaxyl	48		ng/L	P325833	
		Metolachlor	34		ng/L	P325833	
		Acetochlor	0.25	U	ng/L	P325833	
		Cyanazine	0.50	U	ng/L	P325833	
		Parathion Ethyl	0.25	U	ng/L	P325833	
		Parathion Methyl	0.25	U	ng/L	P325833	
1901740	EPA 200.7 Rev. 4.4	Calcium	65.9		mg/L	P325995	
		Iron	80	I	ug/L	P325995	
		Magnesium	13.4		mg/L	P325995	
		Potassium	10.6		mg/L	P325995	
		Sodium	76.0		mg/L	P325995	
		Zinc	5.0	U	ug/L	P325995	
	EPA 200.8 Rev. 5.4	Arsenic	1.53		ug/L	P325995	
		Cadmium	0.020	U	ug/L	P325995	
		Chromium	0.66	I	ug/L	P325995	
		Copper	1.84		ug/L	P325995	
		Lead	0.23		ug/L	P326641	
		Nickel	0.36	I	ug/L	P325995	
		Silver	0.010	U	ug/L	P325995	

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

USGS O-2060-01: MS accuracy for fenuron and fluridone could not be assessed due to high concentration of parameter in the spiked sample. Refer to the narrative for an explanation of QC Codes.

EPA 8270D: Refer to the narrative for an explanation of QC Codes. Reported results qualified with J due to surrogate below control limits; the sample was subsequently re-analyzed (after expiration) with acceptable surrogate recovery and the same analytical results were obtained.

Sample Location: E-2 Canal West @ Yomato Rd

Collection Date/Time: 05/24/2017 10:50

Field ID: 32012012

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1901700	EPA 180.1 Rev. 2.0	Turbidity	2.9		NTU	P325846	
	EPA 300.0 Rev. 2.1	Chloride	120		mg Cl/L	P326709	
		Sulfate	33		mg SO4/L	P326766	
	SM 2120 B	Color (true)	79		PCU	P325851	
	SM 2320 B-97	Total Alkalinity	165		mg CaCO3/L	P326075	
	SM 2540 C-97	TDS	472		mg/L	P326435	
	SM 2540 D-97	TSS	5	I	mg/L	P326349	
	SM 4500 F-C-97	Fluoride	0.29		mg F/L	P326077	
1901704	EPA 350.1 Rev. 2.0	Ammonia-N	0.024		mg N/L	P325920	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.8		mg N/L	P325940	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	I	mg N/L	P325965	
	EPA 365.1 Rev. 2.0	Total-P	0.15		mg P/L	P325944	
	SM 5310 B-00	Organic Carbon	23		mg C/L	P326079	
1901708	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.090		mg P/L	P325855	
1901739	EPA 200.7 Rev. 4.4	Calcium	61.4		mg/L	P325995	
		Iron	43	I	ug/L	P325995	
		Magnesium	13.6		mg/L	P325995	
		Potassium	9.2		mg/L	P325995	
		Sodium	81.6		mg/L	P325995	
		Zinc	5.0	U	ug/L	P325995	
	EPA 200.8 Rev. 5.4	Arsenic	1.59		ug/L	P325995	
		Cadmium	0.020	U	ug/L	P325995	
		Chromium	0.44	I	ug/L	P325995	
		Copper	2.90		ug/L	P325995	
		Lead	0.19	I	ug/L	P326641	
		Nickel	0.26	I	ug/L	P325995	
		Silver	0.010	U	ug/L	P325995	

Ref. Method and Comment:

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

Sample Location: EI Canal @ Palmetto Park Rd

Collection Date/Time: 05/24/2017 12:00

Field ID: 28010589

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1901709	EPA 180.1 Rev. 2.0	Turbidity	2.1		NTU	P325846	
	EPA 300.0 Rev. 2.1	Chloride	60		mg Cl/L	P326763	
		Sulfate	24		mg SO4/L	P326766	
	SM 2120 B	Color (true)	43		PCU	P325851	
	SM 2320 B-97	Total Alkalinity	127		mg CaCO3/L	P326075	
	SM 2540 C-97	TDS	291	A	mg/L	P326435	
	SM 2540 D-97	TSS	3	IA	mg/L	P326349	
	SM 4500 F-C-97	Fluoride	0.23		mg F/L	P326077	
1901710	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P325920	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P325940	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P325965	

Field ID: 28010589

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1901710	EPA 365.1 Rev. 2.0	Total-P	0.044		mg P/L	P325944	
	SM 5310 B-00	Organic Carbon	14		mg C/L	P326079	
1901711	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P325855	
1901732	EPA 8321B	Sucralose**	0.12		ug/L	P325805	
	USGS O-2060-01	2,4-D	0.0089		ug/L	P325789	
		Diuron	0.0046		ug/L	P325789	
		Fenuron	0.0041	I	ug/L	P325789	
		Imidacloprid	0.030		ug/L	P325789	
		Bentazon	0.044		ug/L	P325789	MS
		Linuron	0.0040	U	ug/L	P325789	
		Acetaminophen**	0.0080	U	ug/L	P325789	
		MCP	0.0020	U	ug/L	P325789	
		Carbamazepine**	4.0E-04	U	ug/L	P325789	
		Triclopyr**	0.0040	U	ug/L	P325789	
		Primidone**	0.0040	U	ug/L	P325789	
		Fluridone**	0.67		ug/L	P325789	

Ref. Method and Comment:

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P325846

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P325847

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P325995

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: P325995

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P325995

Component	Result	Code	Units
Chromium	0.40	U	ug/L
Copper	0.20	U	ug/L
Nickel	0.20	U	ug/L
Silver	0.010	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P326641

Component	Result	Code	Units
Lead	0.050	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P326709

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P326763

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P326765

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P326766

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P326768

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P325920

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P326127

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P325940

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P325942

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P325964

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P325965

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P326085

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325943

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325944

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325945

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P325853

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P325854

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P325855

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

Reference Method: EPA 8270D
Batch ID: P325833

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	0.32	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
Metaxyl	0.20	U	ng/L
Metolachlor	0.25	U	ng/L
Metribuzin	0.20	U	ng/L
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Norflurazon	0.50	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.25	U	ng/L
Pendimethalin	1.5	U	ng/L
Phorate	0.25	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Simazine	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D
Batch ID: P326163

Component	Result	Code	Units
Aldrin	4.0	U	ng/L
Alpha-BHC	2.0	U	ng/L
Alpha-Chlordane	1.0	U	ng/L
Beta-BHC	4.0	U	ng/L
Carbophenothion	4.0	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cypermethrin	20	U	ng/L
DDD-p,p'	2.0	U	ng/L
DDE-p,p'	3.0	U	ng/L
DDT-p,p'	3.0	U	ng/L
Delta-BHC	4.0	U	ng/L
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: P326163

Component	Result	Code	Units
Toxaphene	12	U	ng/L

Reference Method: EPA 8321B
Batch ID: P325788

Component	Result	Code	Units
Pyraclostrobin	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P325790

Component	Result	Code	Units
Glyphosate	10	U	ug/L

Reference Method: EPA 8321B
Batch ID: P325805

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 2120 B
Batch ID: P325851

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P325954

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2320 B-97
Batch ID: P326074

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2320 B-97
Batch ID: P326075

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-97
Batch ID: P326434

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P326435

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P326348

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P326349

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P326350

Component	Result	Code	Units
TSS	3	U	mg/L

Quality Assurance Report Method Blank Results

Reference Method: SM 4500 F-C-97
Batch ID: P325958

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P326076

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P326077

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P326079

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

Reference Method: SM 5310 B-00
Batch ID: P326241

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

Reference Method: USGS O-2060-01
Batch ID: P325789

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

Reference Method: USGS O-2060-01
Batch ID: P325956

Component	Result	Code	Units
2,4-D	8.0E-04	U	ug/L
Acetaminophen	0.0080	U	ug/L
Bentazon	8.0E-04	U	ug/L
Carbamazepine	4.0E-04	U	ug/L
Diuron	8.0E-04	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: USGS O-2060-01
Batch ID: P325956

Component	Result	Code	Units
Fenuron	0.0040	U	ug/L
Fluridone	4.0E-04	U	ug/L
Imidacloprid	8.0E-04	U	ug/L
Linuron	0.0040	U	ug/L
MCPP	0.0020	U	ug/L
Primidone	0.0040	U	ug/L
Triclopyr	0.0040	U	ug/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P325995

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	105		P	85 - 115
Iron	106		P	85 - 115
Magnesium	105		P	85 - 115
Potassium	100		P	85 - 115
Sodium	105		P	85 - 115
Zinc	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P325995

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	99.1		P	85 - 115
Cadmium	97.6		P	85 - 115
Chromium	92.7		P	85 - 115
Copper	94.3		P	85 - 115
Nickel	96.2		P	85 - 115
Silver	94.4		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P326641

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Lead	96.3		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P326709

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	93.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P326763

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P326765

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P326766

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	95.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P326768

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P325920

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P326127

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P325940

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P325942

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P325964

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO ₂ NO ₃ -N	101		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P325965

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO ₂ NO ₃ -N	101		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P326085

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325943

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325944

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325945

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P325853

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	96.2		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P325854

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P325855

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

Reference Method: EPA 8270D
Batch ID: P325833

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	92.7	86.9	P/P	78 - 118
Alachlor	90.4	87.6	P/P	77 - 119
Ametryn	107	96.7	P/P	61 - 136
Atrazine	98.8	97.8	P/P	73 - 120
Atrazine Desethyl	70.8	58.2	P/P	16 - 122
Azinphos Methyl	145	114	P/P	69 - 186
Bromacil	70.5	72.4	P/P	40 - 125
Butylate	64.7	52.2	P/P	32 - 87.0
Chlorpyrifos Ethyl	91.5	85.9	P/P	53 - 110
Chlorpyrifos Methyl	96.5	84.4	P/P	31 - 119

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270D

Batch ID: P325833

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Cyanazine	107	93.6	P/P	36 - 224
Demeton	98.8	81.1	P/P	39 - 122
Diazinon	93.0	87.2	P/P	75 - 119
Disulfoton	89.1	71.5	P/P	42 - 139
EPTC	63.8	50.8	P/P	33 - 96.0
Ethion	94.8	92.9	P/P	63 - 127
Ethoprop	97.8	81.4	P/P	65 - 107
Fenamiphos	106	92.4	P/P	64 - 137
Fipronil	92.6	93.9	P/P	60 - 126
Fipronil Sulfide	86.4	89.1	P/P	58 - 124
Fipronil Sulfone	75.6	83.6	P/P	57 - 126
Fonofos	91.9	76.5	P/P	65 - 111
Hexazinone	88.5	89.8	P/P	46 - 151
Malathion	103	95.9	P/P	68 - 132
Metalaxyl	87.0	72.5	P/P	51 - 132
Metolachlor	91.3	90.2	P/P	78 - 119
Metribuzin	120	98.5	P/P	64 - 138
Mevinphos	97.7	74.1	P/P	34 - 128
Molinate	68.7	57.1	P/P	44 - 101
Norflurazon	92.1	86.4	P/P	63 - 129
Parathion Ethyl	95.3	95.5	P/P	80 - 109
Parathion Methyl	103	94.8	P/P	74 - 125
Pendimethalin	90.2	89.1	P/P	48 - 134
Phorate	115	83.1	P/P	52 - 119
Prometon	102	85.8	P/P	69 - 124
Prometryn	102	90.4	P/P	66 - 124
Simazine	97.3	92.2	P/P	61 - 134
Terbufos	91.6	75.5	P/P	58 - 115
Terbutylazine	92.4	91.7	P/P	77 - 113

Reference Method: EPA 8270D

Batch ID: P326163

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	52.5	56.5	P/P	30 - 83.0
Alpha-BHC	80.1	82.2	P/P	62 - 119
Alpha-Chlordane	81.7	75.1	P/P	56 - 119
Beta-BHC	91.6	83.4	P/P	54 - 141
Carbophenothion	44.2	43.8	P/P	33 - 147
Chlorothalonil	40.9	68.5	P/P	25 - 175
Cypermethrin	132	121	P/P	50 - 155
DDD-p,p'	92.2	88.2	P/P	56 - 135
DDE-p,p'	81.2	76.7	P/P	48 - 120
DDT-p,p'	84.4	81.2	P/P	51 - 121
Delta-BHC	121	103	P/P	65 - 163
Dicofol	55.6	45.3	P/P	15 - 112
Dieldrin	80.6	70.6	P/P	59 - 134
Endosulfan I	84.7	86.3	P/P	65 - 142
Endosulfan II	91.4	95.0	P/P	65 - 154
Endosulfan Sulfate	81.7	84.3	P/P	65 - 136
Endrin	81.2	80.1	P/P	53 - 156
Endrin Aldehyde	81.4	77.3	P/P	47 - 156

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P326163

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endrin Ketone	70.9	73.6	P/P	70 - 124
Gamma-BHC	88.0	87.0	P/P	64 - 142
Gamma-Chlordane	78.3	75.6	P/P	55 - 114
Heptachlor	75.0	71.1	P/P	42 - 105
Heptachlor Epoxide	79.0	76.6	P/P	67 - 120
Methoxychlor	94.1	95.0	P/P	63 - 134
Mirex	61.5	63.8	P/P	40 - 90.0
Permethrin	111	100	P/P	36 - 144
Trifluralin	95.4	99.7	P/P	40 - 170

Reference Method: EPA 8276
Batch ID: P326163

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Toxaphene	90.3	98.7	P/P	36 - 136

Reference Method: EPA 8321B
Batch ID: P325788

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pyraclostrobin	47.2		P	40 - 140

Reference Method: EPA 8321B
Batch ID: P325790

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Glyphosate	91.2		P	40 - 140

Reference Method: EPA 8321B
Batch ID: P325805

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	79.3		P	40 - 140

Reference Method: SM 2320 B-97
Batch ID: P325954

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

Reference Method: SM 2320 B-97
Batch ID: P326074

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

Reference Method: SM 2320 B-97
Batch ID: P326075

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P325958

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

Reference Method: SM 4500 F-C-97
Batch ID: P326076

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	94.7		P	92 - 103

Reference Method: SM 4500 F-C-97
Batch ID: P326077

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.1		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P326079

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.7		P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P326241

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.6		P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P325789

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	66.6		P	40 - 140
Acetaminophen	48.4		P	40 - 140
Bentazon	63.2		P	40 - 140
Carbamazepine	92.2		P	40 - 140
Diuron	89.0		P	40 - 140
Fenuron	88.8		P	40 - 140
Fluridone	85.0		P	40 - 140
Imidacloprid	77.0		P	40 - 160
Linuron	74.6		P	40 - 140
MCP	81.2		P	40 - 140
Primidone	78.6		P	40 - 140
Triclopyr	77.4		P	40 - 140

Reference Method: USGS O-2060-01
Batch ID: P325956

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	90.0		P	40 - 140
Acetaminophen	119		P	40 - 140
Bentazon	71.6		P	40 - 140
Carbamazepine	127		P	40 - 140
Diuron	129		P	40 - 140

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: USGS O-2060-01
 Batch ID: P325956

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fenuron	111		P	40 - 140
Fluridone	127		P	40 - 140
Imidacloprid	110		P	40 - 160
Linuron	117		P	40 - 140
MCPP	101		P	40 - 140
Primidone	112		P	40 - 140
Triclopyr	101		P	40 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
 Batch ID: P325995

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901521	Calcium	106		P	80 - 120
1901521	Iron	105	105	P/P	80 - 120
1901521	Magnesium	105		P	80 - 120
1901521	Potassium	101	99.6	P/P	80 - 120
1901521	Sodium	106		P	80 - 120
1901521	Zinc	99.3	98.4	P/P	80 - 120
1901736	Calcium	96.6		P	80 - 120
1901736	Iron	105		P	80 - 120
1901736	Magnesium	104		P	80 - 120
1901736	Potassium	102		P	80 - 120
1901736	Sodium	99.0		P	80 - 120
1901736	Zinc	100		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
 Batch ID: P325995

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901521	Arsenic	98.5	97.5	P/P	80 - 120
1901521	Cadmium	103	101	P/P	80 - 120
1901521	Chromium	93.5	93.6	P/P	80 - 120
1901521	Copper	93.8	93.1	P/P	80 - 120
1901521	Nickel	95.5	94.8	P/P	80 - 120
1901521	Silver	94.9	96.0	P/P	80 - 120
1901736	Arsenic	97.8		P	80 - 120
1901736	Cadmium	102		P	80 - 120
1901736	Chromium	89.9		P	80 - 120
1901736	Copper	93.7		P	80 - 120
1901736	Nickel	95.1		P	80 - 120
1901736	Silver	92.3		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
 Batch ID: P326641

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901502	Lead	100	99.1	P/P	80 - 120
1901737	Lead	101		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P326709

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1899321	Chloride	95.6		P	90 - 110
1901124	Chloride	94.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P326763

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901477	Chloride	108		P	90 - 110
1901589	Chloride	99.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P326765

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901900	Chloride	101		P	90 - 110
1902025	Chloride	106		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P326766

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901477	Sulfate	101		P	90 - 110
1901589	Sulfate	93.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P326768

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901900	Sulfate	95.2		P	90 - 110
1902025	Sulfate	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P325920

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901603	Ammonia-N	97.8	97.5	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P326127

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901230	Ammonia-N	108	108	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P325940

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901701	Kjeldahl Nitrogen	97.0	94.7	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P325942

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901819	Kjeldahl Nitrogen	92.4	91.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P325964

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901590	NO2NO3-N	97.7	98.7	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P325965

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901704	NO2NO3-N	95.7	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P326085

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901677	NO2NO3-N	105	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325943

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901719	Total-P	86.4	89.5	F/F	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325944

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901703	Total-P	93.3	96.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325945

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901790	Total-P	99.4	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P325853

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901489	O-Phosphate-P	93.4	94.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P325854

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901604	O-Phosphate-P	96.0	96.8	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P325855

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901706	O-Phosphate-P	94.4	95.3	P/P	90 - 110

Reference Method: EPA 8270D
Batch ID: P325833

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1900695	Acetochlor	101	100	P/P	74 - 123
1900695	Alachlor	106	104	P/P	73 - 124
1900695	Ametryn	147	145	P/P	56 - 149
1900695	Atrazine	103	103	P/P	73 - 124
1900695	Atrazine Desethyl	47.6	71.3	P/P	12 - 103
1900695	Azinphos Methyl	163	161	P/P	60 - 202
1900695	Bromacil	90.4	89.2	P/P	42 - 133
1900695	Butylate	52.1	55.3	P/P	10 - 85.0
1900695	Chlorpyrifos Ethyl	86.6	89.5	P/P	53 - 113
1900695	Chlorpyrifos Methyl	96.5	93.0	P/P	40 - 115
1900695	Cyanazine	103	98.9	P/P	22 - 210
1900695	Demeton	106	103	P/P	17 - 149
1900695	Diazinon	108	107	P/P	72 - 124
1900695	Disulfoton	92.3	89.8	P/P	43 - 139
1900695	EPTC	52.7	52.7	P/P	10 - 86.0
1900695	Ethion	101	100	P/P	65 - 131
1900695	Ethoprop	116	112	F/F	59 - 110
1900695	Fenamiphos	98.0	94.1	P/P	57 - 138
1900695	Fipronil	92.3	91.8	P/P	40 - 130
1900695	Fipronil Sulfide	81.1	79.8	P/P	36 - 128
1900695	Fipronil Sulfone	68.4	66.4	P/P	16 - 145
1900695	Fonofos	104	104	P/P	60 - 112
1900695	Hexazinone	97.5	96.3	P/P	69 - 142
1900695	Malathion	104	101	P/P	68 - 132
1900695	Metalaxyl	90.4	90.3	P/P	66 - 118
1900695	Metolachlor	99.1	98.3	P/P	71 - 124
1900695	Metribuzin	116	114	P/P	61 - 140
1900695	Mevinphos	108	111	P/P	38 - 130
1900695	Molinate	66.3	65.2	P/P	23 - 99.0
1900695	Norflurazon	87.5	87.3	P/P	39 - 139
1900695	Parathion Ethyl	101	100	P/P	75 - 111
1900695	Parathion Methyl	108	109	P/P	64 - 130
1900695	Pendimethalin	98.3	98.6	P/P	26 - 173
1900695	Phorate	115	109	P/P	43 - 127
1900695	Prometon	117	116	P/P	50 - 144
1900695	Prometryn	91.6	90.6	P/P	69 - 126
1900695	Simazine	93.4	98.3	P/P	51 - 152
1900695	Terbufos	107	106	P/P	54 - 125
1900695	Terbutylazine	99.4	97.9	P/P	76 - 113

Reference Method: EPA 8270D
Batch ID: P326163

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1900816	Aldrin	57.3	73.6	P/P	30 - 83.0
1900816	Alpha-BHC	81.7	92.2	P/P	62 - 119

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D

Batch ID: P326163

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1900816	Alpha-Chlordane	67.6	84.7	P/P	56 - 119
1900816	Beta-BHC	87.1	91.3	P/P	54 - 141
1900816	Carbophenothion	89.2	114	P/P	33 - 147
1900816	Chlorothalonil	53.4	74.6	P/P	25 - 175
1900816	Cypermethrin	98.9	128	P/P	50 - 155
1900816	DDD-p,p'	74.8	92.8	P/P	56 - 135
1900816	DDE-p,p'	66.4	85.1	P/P	48 - 120
1900816	DDT-p,p'	71.5	89.4	P/P	51 - 121
1900816	Delta-BHC	96.0	110	P/P	65 - 163
1900816	Dicofol	43.0	46.8	P/P	15 - 112
1900816	Dieldrin	77.1	91.1	P/P	59 - 134
1900816	Endosulfan I	74.5	93.3	P/P	65 - 142
1900816	Endosulfan II	79.3	99.2	P/P	65 - 154
1900816	Endosulfan Sulfate	87.3	96.0	P/P	65 - 136
1900816	Endrin	67.8	85.6	P/P	53 - 156
1900816	Endrin Aldehyde	66.6	78.1	P/P	47 - 156
1900816	Endrin Ketone	71.2	89.9	P/P	70 - 124
1900816	Gamma-BHC	101	92.8	P/P	64 - 142
1900816	Gamma-Chlordane	67.2	85.1	P/P	55 - 114
1900816	Heptachlor	64.6	82.8	P/P	42 - 105
1900816	Heptachlor Epoxide	76.1	89.6	P/P	67 - 120
1900816	Methoxychlor	89.4	102	P/P	63 - 134
1900816	Mirex	59.5	79.4	P/P	40 - 90.0
1900816	Permethrin	78.8	107	P/P	36 - 144
1900816	Trifluralin	109	133	P/P	40 - 170

Reference Method: EPA 8276

Batch ID: P326163

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901314	Toxaphene	98.2	90.1	P/P	36 - 136

Reference Method: EPA 8321B

Batch ID: P325788

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901499	Pyraclostrobin	89.6	101	P/P	40 - 140

Reference Method: EPA 8321B

Batch ID: P325790

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1900995	Glyphosate	101	97.0	P/P	40 - 140

Reference Method: EPA 8321B

Batch ID: P325805

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901732	Sucralose	94.3	75.7	P/P	40 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P325958

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901339	Fluoride	94.4	96.4	P/P	91 - 105

Reference Method: SM 4500 F-C-97
Batch ID: P326076

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901838	Fluoride	93.0	97.7	P/P	91 - 105

Reference Method: SM 4500 F-C-97
Batch ID: P326077

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901803	Fluoride	101	105	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P326079

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901538	Organic Carbon	90.0	94.0	P/P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P326241

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901719	Organic Carbon	93.9	93.0	P/P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P325789

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1900995	2,4-D	71.4	63.8	P/P	40 - 140
1900995	Acetaminophen	79.2	75.4	P/P	40 - 140
1900995	Bentazon	31.4	28.0	F/F	40 - 140
1900995	Carbamazepine	69.6	62.2	P/P	40 - 140
1900995	Diuron	57.8	52.0	P/P	40 - 140
1900995	Fenuron	49.4	67.6	P/P	40 - 140
1900995	Fluridone	75.0	65.6	P/P	40 - 140
1900995	Imidacloprid	120	111	P/P	40 - 160
1900995	Linuron	77.0	70.4	P/P	40 - 140
1900995	MCP	64.0	54.2	P/P	40 - 140
1900995	Primidone	64.2	62.4	P/P	40 - 140
1900995	Triclopyr	67.4	63.2	P/P	40 - 140

Reference Method: USGS O-2060-01
Batch ID: P325956

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901733	2,4-D	98.6	131	P/P	40 - 140
1901733	Acetaminophen	119	126	P/P	40 - 140
1901733	Bentazon	36.8	41.0	F/P	40 - 140
1901733	Carbamazepine	76.8	92.0	P/P	40 - 140
1901733	Diuron	62.4	74.0	P/P	40 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: USGS O-2060-01
 Batch ID: P325956

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901733	Imidacloprid	144	177	P/F	40 - 160
1901733	Linuron	91.0	104	P/P	40 - 140
1901733	MCP	72.0	75.4	P/P	40 - 140
1901733	Primidone	79.2	94.4	P/P	40 - 140
1901733	Triclopyr	84.8	85.8	P/P	40 - 140

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P325846

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901594	Turbidity	1.19	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P325847

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901715	Turbidity	4.41	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
 Batch ID: P325995

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901521	Calcium	0.177	Spike	P	0 - 20
1901521	Iron	0.155	Spike	P	0 - 20
1901521	Magnesium	0.936	Spike	P	0 - 20
1901521	Potassium	0.737	Spike	P	0 - 20
1901521	Sodium	0.0617	Spike	P	0 - 20
1901521	Zinc	0.922	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
 Batch ID: P325995

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901521	Arsenic	1.06	Spike	P	0 - 20
1901521	Cadmium	2.17	Spike	P	0 - 20
1901521	Chromium	0.187	Spike	P	0 - 20
1901521	Copper	0.688	Spike	P	0 - 20
1901521	Nickel	0.774	Spike	P	0 - 20
1901521	Silver	1.12	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P326641

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901502	Lead	1.19	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P326709

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899321	Chloride	2.12	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P326763

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901477	Chloride	0.330	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P326765

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901900	Chloride	0.814	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P326766

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901477	Sulfate	0.151	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P326768

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901900	Sulfate	1.08	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P325920

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901603	Ammonia-N	0.218	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P326127

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901230	Ammonia-N	0.236	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P325940

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901701	Kjeldahl Nitrogen	1.33	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P325942

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901819	Kjeldahl Nitrogen	1.11	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P325964

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901590	NO2NO3-N	0.862	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P325965

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901704	NO2NO3-N	4.42	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P326085

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901677	NO2NO3-N	0.957	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325943

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901719	Total-P	3.47	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325944

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901703	Total-P	2.88	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325945

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901790	Total-P	1.01	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P325853

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901489	O-Phosphate-P	1.40	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P325854

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901604	O-Phosphate-P	0.830	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P325855

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901706	O-Phosphate-P	0.495	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P325833

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1900695	Acetochlor	0.235	Spike	P	0 - 30
1900695	Alachlor	1.81	Spike	P	0 - 30
1900695	Ametryn	0.894	Spike	P	0 - 30
1900695	Atrazine	0.0496	Spike	P	0 - 30
1900695	Atrazine Desethyl	39.9	Spike	F	0 - 30
1900695	Azinphos Methyl	1.49	Spike	P	0 - 30
1900695	Bromacil	1.37	Spike	P	0 - 30
1900695	Butylate	5.99	Spike	P	0 - 30
1900695	Chlorpyrifos Ethyl	3.24	Spike	P	0 - 30
1900695	Chlorpyrifos Methyl	3.69	Spike	P	0 - 30
1900695	Cyanazine	4.41	Spike	P	0 - 30
1900695	Demeton	2.49	Spike	P	0 - 30
1900695	Diazinon	1.15	Spike	P	0 - 30
1900695	Disulfoton	2.69	Spike	P	0 - 30
1900695	EPTC	0.0211	Spike	P	0 - 30
1900695	Ethion	1.10	Spike	P	0 - 30
1900695	Ethoprop	3.38	Spike	P	0 - 30
1900695	Fenamiphos	4.01	Spike	P	0 - 30
1900695	Fipronil	0.514	Spike	P	0 - 30
1900695	Fipronil Sulfide	1.65	Spike	P	0 - 30
1900695	Fipronil Sulfone	3.02	Spike	P	0 - 30
1900695	Fonofos	0.396	Spike	P	0 - 30
1900695	Hexazinone	1.09	Spike	P	0 - 30
1900695	Malathion	2.82	Spike	P	0 - 30
1900695	Metalaxyl	0.142	Spike	P	0 - 30
1900695	Metolachlor	0.769	Spike	P	0 - 30
1900695	Metribuzin	1.94	Spike	P	0 - 30
1900695	Mevinphos	2.86	Spike	P	0 - 30
1900695	Molinate	1.65	Spike	P	0 - 30
1900695	Norflurazon	0.258	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P325833

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1900695	Parathion Ethyl	1.06	Spike	P	0 - 30
1900695	Parathion Methyl	0.524	Spike	P	0 - 30
1900695	Pendimethalin	0.210	Spike	P	0 - 30
1900695	Phorate	5.40	Spike	P	0 - 30
1900695	Prometon	0.593	Spike	P	0 - 30
1900695	Prometryn	1.07	Spike	P	0 - 30
1900695	Simazine	4.32	Spike	P	0 - 30
1900695	Terbufos	0.876	Spike	P	0 - 30
1900695	Terbuthylazine	1.58	Spike	P	0 - 30
LFB	Acetochlor	6.48	LCS	P	0 - 30
LFB	Alachlor	3.09	LCS	P	0 - 30
LFB	Ametryn	10.3	LCS	P	0 - 30
LFB	Atrazine	0.989	LCS	P	0 - 30
LFB	Atrazine Desethyl	19.5	LCS	P	0 - 30
LFB	Azinphos Methyl	24.2	LCS	P	0 - 30
LFB	Bromacil	2.61	LCS	P	0 - 30
LFB	Butylate	21.3	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	6.36	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	13.3	LCS	P	0 - 30
LFB	Cyanazine	13.3	LCS	P	0 - 30
LFB	Demeton	19.6	LCS	P	0 - 30
LFB	Diazinon	6.47	LCS	P	0 - 30
LFB	Disulfoton	21.9	LCS	P	0 - 30
LFB	EPTC	22.6	LCS	P	0 - 30
LFB	Ethion	2.03	LCS	P	0 - 30
LFB	Ethoprop	18.3	LCS	P	0 - 30
LFB	Fenamiphos	13.2	LCS	P	0 - 30
LFB	Fipronil	1.43	LCS	P	0 - 30
LFB	Fipronil Sulfide	3.12	LCS	P	0 - 30
LFB	Fipronil Sulfone	9.97	LCS	P	0 - 30
LFB	Fonofos	18.3	LCS	P	0 - 30
LFB	Hexazinone	1.41	LCS	P	0 - 30
LFB	Malathion	7.00	LCS	P	0 - 30
LFB	Metalaxyl	18.2	LCS	P	0 - 30
LFB	Metolachlor	1.25	LCS	P	0 - 30
LFB	Metribuzin	19.5	LCS	P	0 - 30
LFB	Mevinphos	27.6	LCS	P	0 - 30
LFB	Molinate	18.5	LCS	P	0 - 30
LFB	Norflurazon	6.39	LCS	P	0 - 30
LFB	Parathion Ethyl	0.125	LCS	P	0 - 30
LFB	Parathion Methyl	8.30	LCS	P	0 - 30
LFB	Pendimethalin	1.25	LCS	P	0 - 30
LFB	Phorate	32.0	LCS	F	0 - 30
LFB	Prometon	16.8	LCS	P	0 - 30
LFB	Prometryn	12.4	LCS	P	0 - 30
LFB	Simazine	5.38	LCS	P	0 - 30
LFB	Terbufos	19.2	LCS	P	0 - 30
LFB	Terbuthylazine	0.753	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P326163

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1900816	Aldrin	25.0	Spike	P	0 - 30
1900816	Alpha-BHC	12.1	Spike	P	0 - 30
1900816	Alpha-Chlordane	22.5	Spike	P	0 - 30
1900816	Beta-BHC	4.70	Spike	P	0 - 30
1900816	Carbophenothion	24.5	Spike	P	0 - 30
1900816	Chlorothalonil	33.1	Spike	F	0 - 30
1900816	Cypermethrin	25.8	Spike	P	0 - 30
1900816	DDD-p,p'	21.4	Spike	P	0 - 30
1900816	DDE-p,p'	24.6	Spike	P	0 - 30
1900816	DDT-p,p'	22.3	Spike	P	0 - 30
1900816	Delta-BHC	13.3	Spike	P	0 - 30
1900816	Dicofol	8.49	Spike	P	0 - 30
1900816	Dieldrin	16.6	Spike	P	0 - 30
1900816	Endosulfan I	22.4	Spike	P	0 - 30
1900816	Endosulfan II	22.3	Spike	P	0 - 30
1900816	Endosulfan Sulfate	9.56	Spike	P	0 - 30
1900816	Endrin	23.2	Spike	P	0 - 30
1900816	Endrin Aldehyde	15.8	Spike	P	0 - 30
1900816	Endrin Ketone	23.2	Spike	P	0 - 30
1900816	Gamma-BHC	8.04	Spike	P	0 - 30
1900816	Gamma-Chlordane	23.5	Spike	P	0 - 30
1900816	Heptachlor	24.7	Spike	P	0 - 30
1900816	Heptachlor Epoxide	16.3	Spike	P	0 - 30
1900816	Methoxychlor	13.4	Spike	P	0 - 30
1900816	Mirex	28.6	Spike	P	0 - 30
1900816	Permethrin	30.6	Spike	F	0 - 30
1900816	Trifluralin	19.3	Spike	P	0 - 30
LFB	Aldrin	7.37	LCS	P	0 - 30
LFB	Alpha-BHC	2.60	LCS	P	0 - 30
LFB	Alpha-Chlordane	8.36	LCS	P	0 - 30
LFB	Beta-BHC	9.40	LCS	P	0 - 30
LFB	Carbophenothion	0.843	LCS	P	0 - 30
LFB	Chlorothalonil	50.6	LCS	F	0 - 30
LFB	Cypermethrin	9.08	LCS	P	0 - 30
LFB	DDD-p,p'	4.45	LCS	P	0 - 30
LFB	DDE-p,p'	5.65	LCS	P	0 - 30
LFB	DDT-p,p'	3.80	LCS	P	0 - 30
LFB	Delta-BHC	16.2	LCS	P	0 - 30
LFB	Dicofol	20.4	LCS	P	0 - 30
LFB	Dieldrin	13.2	LCS	P	0 - 30
LFB	Endosulfan I	1.93	LCS	P	0 - 30
LFB	Endosulfan II	3.91	LCS	P	0 - 30
LFB	Endosulfan Sulfate	3.15	LCS	P	0 - 30
LFB	Endrin	1.29	LCS	P	0 - 30
LFB	Endrin Aldehyde	5.17	LCS	P	0 - 30
LFB	Endrin Ketone	3.82	LCS	P	0 - 30
LFB	Gamma-BHC	1.14	LCS	P	0 - 30
LFB	Gamma-Chlordane	3.53	LCS	P	0 - 30
LFB	Heptachlor	5.35	LCS	P	0 - 30
LFB	Heptachlor Epoxide	3.03	LCS	P	0 - 30
LFB	Methoxychlor	0.932	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P326163

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Mirex	3.76	LCS	P	0 - 30
LFB	Permethrin	10.4	LCS	P	0 - 30
LFB	Trifluralin	4.36	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P326163

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901314	Toxaphene	8.59	Spike	P	0 - 30
LFB	Toxaphene	8.84	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P325788

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901499	Pyraclostrobin	11.8	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P325790

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1900995	Glyphosate	4.44	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P325805

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901732	Sucralose	19.4	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P325851

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901699	Color (true)	2.66	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P325954

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901339	Total Alkalinity	0.861	Sample	P	0 - 4.8

Quality Assurance Report Precision

Reference Method: SM 2320 B-97
Batch ID: P326074

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901838	Total Alkalinity	0.505	Sample	P	0 - 4.8

Reference Method: SM 2320 B-97
Batch ID: P326075

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901803	Total Alkalinity	0.218	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P326434

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901697	TDS	0.255	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P326435

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901709	TDS	0.687	Sample	P	0 - 10

Reference Method: SM 2540 D-97
Batch ID: P326350

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901592	TSS	3.92	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P325958

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901339	Fluoride	1.00	Spike	P	0 - 3.0

Reference Method: SM 4500 F-C-97
Batch ID: P326076

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901838	Fluoride	3.98	Spike	F	0 - 3.0

Reference Method: SM 4500 F-C-97
Batch ID: P326077

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901803	Fluoride	2.42	Spike	P	0 - 3.0

Quality Assurance Report Precision

Reference Method: SM 5310 B-00
 Batch ID: P326079

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901538	Organic Carbon	2.71	Spike	P	0 - 20

Reference Method: SM 5310 B-00
 Batch ID: P326241

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901719	Organic Carbon	0.927	Spike	P	0 - 20

Reference Method: USGS O-2060-01
 Batch ID: P325789

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1900995	2,4-D	10.5	Spike	P	0 - 30
1900995	Acetaminophen	4.92	Spike	P	0 - 30
1900995	Bentazon	11.4	Spike	P	0 - 30
1900995	Carbamazepine	11.2	Spike	P	0 - 30
1900995	Diuron	10.6	Spike	P	0 - 30
1900995	Fenuron	23.4	Spike	P	0 - 30
1900995	Fluridone	13.4	Spike	P	0 - 30
1900995	Imidacloprid	7.63	Spike	P	0 - 30
1900995	Linuron	8.96	Spike	P	0 - 30
1900995	MCPP	16.6	Spike	P	0 - 30
1900995	Primidone	2.84	Spike	P	0 - 30
1900995	Triclopyr	6.43	Spike	P	0 - 30

Reference Method: USGS O-2060-01
 Batch ID: P325956

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901733	2,4-D	2.71	Spike	P	0 - 30
1901733	Acetaminophen	5.38	Spike	P	0 - 30
1901733	Bentazon	4.39	Spike	P	0 - 30
1901733	Carbamazepine	18.0	Spike	P	0 - 30
1901733	Diuron	14.1	Spike	P	0 - 30
1901733	Fenuron	4.58	Spike	P	0 - 30
1901733	Fluridone	10.3	Spike	P	0 - 30
1901733	Imidacloprid	15.9	Spike	P	0 - 30
1901733	Linuron	12.9	Spike	P	0 - 30
1901733	MCPP	4.61	Spike	P	0 - 30
1901733	Primidone	17.5	Spike	P	0 - 30
1901733	Triclopyr	1.17	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: 1901732
Field Sample ID: 28010589

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	78.0	P	40 - 150
USGS O-2060-01	2,4-D-d3	76.8	P	30 - 150
USGS O-2060-01	Acetaminophen-d4	106	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	85.1	P	30 - 160
USGS O-2060-01	Diuron-d6	70.2	P	30 - 160
USGS O-2060-01	Primidone-d5	90.3	P	30 - 150

Lab Sample ID: 1901733
Field Sample ID: 32012014

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	113	P	30 - 150
EPA 8321B	Carbamazepine-d10	88.0	P	30 - 160
EPA 8321B	Diuron-d6	88.3	P	30 - 160
EPA 8321B	Diuron-d6	71.3	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	103	P	40 - 150
EPA 8321B	Primidone-d5	87.3	P	30 - 150
EPA 8321B	Sucralose-d6	66.5	P	40 - 150
USGS O-2060-01	2,4-D-d3	107	P	30 - 150
USGS O-2060-01	Acetaminophen-d4	113	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	88.0	P	30 - 160
USGS O-2060-01	Diuron-d6	88.3	P	30 - 160
USGS O-2060-01	Diuron-d6	71.3	P	30 - 160
USGS O-2060-01	Primidone-d5	87.3	P	30 - 150

Lab Sample ID: 1901734
Field Sample ID: 32012014

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	50.5	F	51 - 123
EPA 8270D	Tetrachloro-m-xylene	35.5	P	31 - 111
EPA 8276	Decachlorobiphenyl	48.8	P	41 - 106

Lab Sample ID: 1901735
Field Sample ID: 32012014

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	83.6	P	62 - 132
EPA 8270D	Simazine-d10	113	P	72 - 127

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A76678
Included Lab Sample IDs: 1901697, 1901698, 1901699, 1901700, 1901709, 1901712, 1901715, 1901718

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	100	P/P	95 - 105
Turbidity	102	100	P/P	95 - 105

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B

Run ID: A76679

Included Lab Sample IDs: 1901697, 1901698, 1901699, 1901700, 1901709, 1901712, 1901715

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	103	101	P/P	85 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A76680

Included Lab Sample IDs: 1901705, 1901706, 1901707, 1901708, 1901711, 1901714, 1901717, 1901720

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A76718

Included Lab Sample IDs: 1901701, 1901702, 1901703, 1901704, 1901710, 1901713, 1901716

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.2	99.2	P/P	90 - 110
Ammonia-N	99.8	99.2	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A76722

Included Lab Sample IDs: 1901733

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Glyphosate	93.4	94.8	P/P	70 - 160

Reference Method: SM 2320 B-97

Run ID: A76730

Included Lab Sample IDs: 1901718

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	102	106	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A76730

Included Lab Sample IDs: 1901718

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A76743

Included Lab Sample IDs: 1901701, 1901702, 1901703, 1901704, 1901710, 1901713, 1901716

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	97.5	97.0	P/P	90 - 110
NO2NO3-N	98.5	97.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A76745

Included Lab Sample IDs: 1901732, 1901733

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	105	66.0	P/P	60 - 150

Reference Method: SM 2320 B-97

Run ID: A76790

Included Lab Sample IDs: 1901697, 1901698, 1901699, 1901700, 1901709, 1901712, 1901715

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	105	P/P	90 - 110
Total Alkalinity	105	102	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A76790

Included Lab Sample IDs: 1901697, 1901698, 1901699, 1901700, 1901709, 1901712, 1901715

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	96.2	97.6	P/P	90 - 110
Fluoride	97.6	97.6	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A76794

Included Lab Sample IDs: 1901701, 1901702, 1901703, 1901704, 1901710, 1901713, 1901716

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.3	96.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A76797

Included Lab Sample IDs: 1901719

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A76799

Included Lab Sample IDs: 1901702, 1901704, 1901713, 1901716

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A76803

Included Lab Sample IDs: 1901701, 1901702, 1901703, 1901704, 1901710, 1901713, 1901716, 1901719

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	98.5	P/P	90 - 110
Kjeldahl Nitrogen	100	101	P/P	90 - 110
Kjeldahl Nitrogen	98.5	99.8	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A76804

Included Lab Sample IDs: 1901701, 1901703, 1901710, 1901719

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.2	99.0	P/P	90 - 110
Total-P	99.0	99.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A76815

Included Lab Sample IDs: 1901719

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A76847

Included Lab Sample IDs: 1901736, 1901737, 1901738, 1901739, 1901740, 1901741

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	102	P/P	90 - 110
Calcium	103	101	P/P	90 - 110
Iron	103	102	P/P	90 - 110
Iron	103	103	P/P	90 - 110
Magnesium	103	102	P/P	90 - 110
Magnesium	103	103	P/P	90 - 110
Potassium	102	102	P/P	90 - 110
Potassium	102	101	P/P	90 - 110
Sodium	102	104	P/P	90 - 110
Sodium	102	102	P/P	90 - 110
Zinc	100	102	P/P	90 - 110
Zinc	102	99.4	P/P	90 - 110

Reference Method: EPA 8270D

Run ID: A76862

Included Lab Sample IDs: 1901734

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	95.7		P	80 - 120
Alpha-BHC	103		P	80 - 120
Alpha-Chlordane	95.6		P	80 - 120
Beta-BHC	105		P	80 - 120
Carbophenothion	89.7		P	80 - 120
Chlorothalonil	128*		F	80 - 120
Cypermethrin	100		P	80 - 120
DDD-p,p'	96.0		P	80 - 120
DDE-p,p'	97.8		P	80 - 120
DDT-p,p'	107		P	80 - 120
Delta-BHC	118		P	80 - 120
Dicofol	85.2		P	80 - 120
Dieldrin	97.1		P	80 - 120
Endosulfan I	101		P	80 - 120
Endosulfan II	103		P	80 - 120
Endosulfan Sulfate	102		P	80 - 120
Endrin	94.2		P	80 - 120
Endrin Aldehyde	85.8		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A76862

Included Lab Sample IDs: 1901734

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endrin Ketone	96.7		P	80 - 120
Gamma-BHC	104		P	80 - 120
Gamma-Chlordane	98.0		P	80 - 120
Heptachlor	92.2		P	80 - 120
Heptachlor Epoxide	95.2		P	80 - 120
Methoxychlor	109		P	80 - 120
Mirex	101		P	80 - 120
Permethrin	93.7		P	80 - 120
Trifluralin	99.1		P	80 - 120

Reference Method: EPA 8321B

Run ID: A76863

Included Lab Sample IDs: 1901733

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraclostrobin	89.6	87.6	P/P	60 - 150

Reference Method: USGS O-2060-01

Run ID: A76863

Included Lab Sample IDs: 1901732

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	84.8	80.8	P/P	50 - 150
Acetaminophen	96.8	100	P/P	60 - 150
Bentazon	111	109	P/P	50 - 150
Carbamazepine	107	118	P/P	60 - 150
Diuron	97.6	99.6	P/P	60 - 150
Fenuron	110	114	P/P	60 - 150
Imidacloprid	93.2	95.6	P/P	60 - 150
Linuron	100	106	P/P	60 - 150
MCPP	95.2	92.4	P/P	50 - 150
Primidone	98.4	95.6	P/P	60 - 150
Triclopyr	94.8	87.6	P/P	50 - 150

Reference Method: SM 5310 B-00

Run ID: A76868

Included Lab Sample IDs: 1901719

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.6	96.2	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A76874

Included Lab Sample IDs: 1901734

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Toxaphene	90.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A76899

Included Lab Sample IDs: 1901736, 1901737, 1901738, 1901739, 1901740, 1901741

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	92.3	91.1	P/P	90 - 110
Cadmium	96.3	97.2	P/P	90 - 110
Chromium	92.7	90.8	P/P	90 - 110
Silver	96.5	96.1	P/P	90 - 110

Reference Method: EPA 8270D

Run ID: A76907

Included Lab Sample IDs: 1901735

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	98.3		P	80 - 120
Alachlor	99.3		P	80 - 120
Ametryn	101		P	80 - 120
Atrazine	104		P	80 - 120
Atrazine Desethyl	100		P	80 - 120
Azinphos Methyl	97.4		P	80 - 120
Bromacil	110		P	80 - 120
Butylate	99.2		P	80 - 120
Chlorpyrifos Ethyl	98.1		P	80 - 120
Chlorpyrifos Methyl	98.5		P	80 - 120
Cyanazine	99.2		P	80 - 120
Demeton	95.9		P	80 - 120
Diazinon	100		P	80 - 120
Disulfoton	95.2		P	80 - 120
EPTC	100		P	80 - 120
Ethion	96.0		P	80 - 120
Ethoprop	98.8		P	80 - 120
Fenamiphos	98.5		P	80 - 120
Fipronil	98.3		P	80 - 120
Fipronil Sulfide	100		P	80 - 120
Fipronil Sulfone	102		P	80 - 120
Fonofos	99.1		P	80 - 120
Hexazinone	99.0		P	80 - 120
Malathion	95.8		P	80 - 120
Metaxyl	100		P	80 - 120
Metolachlor	102		P	80 - 120
Metribuzin	104		P	80 - 120
Mevinphos	88.9		P	80 - 120
Molinate	101		P	80 - 120
Norflurazon	93.9		P	80 - 120
Parathion Ethyl	95.0		P	80 - 120
Parathion Methyl	98.8		P	80 - 120
Pendimethalin	98.0		P	80 - 120
Phorate	96.8		P	80 - 120
Prometon	98.7		P	80 - 120
Prometryn	98.6		P	80 - 120
Simazine	101		P	80 - 120
Terbufos	96.6		P	80 - 120
Terbuthylazine	98.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: USGS O-2060-01

Run ID: A76921

Included Lab Sample IDs: 1901733

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	100	105	P/P	50 - 150
Acetaminophen	110	101	P/P	60 - 150
Bentazon	120	114	P/P	50 - 150
Carbamazepine	115	113	P/P	60 - 150
Diuron	113	114	P/P	60 - 150
Fenuron	105	100	P/P	60 - 150
Fluridone	113	114	P/P	60 - 160
Fluridone	114	122	P/P	60 - 160
Imidacloprid	99.6	102	P/P	60 - 150
Linuron	106	104	P/P	60 - 150
MCPP	96.4	95.6	P/P	50 - 150
Primidone	102	104	P/P	60 - 150
Triclopyr	95.2	98.0	P/P	50 - 150

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A76936

Included Lab Sample IDs: 1901736, 1901737, 1901738, 1901739, 1901740, 1901741

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Copper	95.6	94.4	P/P	90 - 110
Nickel	95.2	94.2	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A77049

Included Lab Sample IDs: 1901736, 1901737, 1901738, 1901739, 1901740, 1901741

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Lead	92.6	98.4	P/P	90 - 110
Lead	94.3	92.6	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A77052

Included Lab Sample IDs: 1901699, 1901700, 1901712

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	91.6	96.6	P/P	90 - 110
Chloride	97.2	91.6	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A77072

Included Lab Sample IDs: 1901697, 1901698, 1901709, 1901715

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	93.9	96.3	P/P	90 - 110
Chloride	96.3	94.8	P/P	90 - 110
Chloride	96.4	94.9	P/P	90 - 110
Sulfate	94.8	101	P/P	90 - 110
Sulfate	95.7	101	P/P	90 - 110
Sulfate	99.8	94.8	P/P	90 - 110

Quality Assurance Report Calibration Verification

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			Precision		
							LCS	SMP	MS
EPA 180.1 Rev. 2.0	Turbidity							1.19	
	Turbidity							4.41	
EPA 200.7 Rev. 4.4	Calcium	105		106	96.6				0.177
	Iron	106		105	105	105			0.155
	Magnesium	105		105	104				0.936
	Potassium	100		101	99.6	102			0.737
	Sodium	105		106	99.0				0.0617
	Zinc	101		99.3	98.4	100			0.922
EPA 200.8 Rev. 5.4	Arsenic	99.1		98.5	97.5	97.8			1.06
	Cadmium	97.6		103	101	102			2.17
	Chromium	92.7		93.5	93.6	89.9			0.187
	Copper	94.3		93.8	93.1	93.7			0.688
	Lead	96.3		100	99.1	101			1.19
	Nickel	96.2		95.5	94.8	95.1			0.774
	Silver	94.4		94.9	96.0	92.3			1.12
EPA 300.0 Rev. 2.1	Chloride	93.1		95.6	94.3			2.12	
	Chloride	101		108	99.2			0.330	
	Chloride	102		101	106			0.814	
	Sulfate	95.8		93.4	101			0.151	
	Sulfate	97.6		95.2	100			1.08	
EPA 350.1 Rev. 2.0	Ammonia-N	96.1		97.8	97.5				0.218
	Ammonia-N	103		108	108				0.236
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103		97.0	94.7				1.33
	Kjeldahl Nitrogen	102		91.0	92.4				1.11
EPA 353.2 Rev. 2.0	NO2NO3-N	101		97.7	98.7				0.862
	NO2NO3-N	101		95.7	100				4.42
	NO2NO3-N	102		105	104				0.957
EPA 365.1 Rev. 2.0	Total-P	99.5		86.4	89.5				3.47
	Total-P	100		93.3	96.2				2.88
	Total-P	94.3		99.4	101				1.01
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	96.2		93.4	94.8				1.40
	O-Phosphate-P	99.5		96.0	96.8				0.830
	O-Phosphate-P	98.1		94.4	95.3				0.495
EPA 8270D	Acetochlor	92.7	86.9	100	101	6.48			0.235
	Alachlor	90.4	87.6	104	106	3.09			1.81
	Aldrin	52.5	56.5	57.3	73.6	7.37			25.0
	Alpha-BHC	80.1	82.2	81.7	92.2	2.60			12.1
	Alpha-Chlordane	81.7	75.1	67.6	84.7	8.36			22.5
	Ametryn	107	96.7	145	147	10.3			0.894
	Atrazine	98.8	97.8	103	103	0.989			0.0496
	Atrazine Desethyl	70.8	58.2	71.3	47.6	19.5			39.9
	Azinphos Methyl	145	114	161	163	24.2			1.49
	Beta-BHC	91.6	83.4	87.1	91.3	9.40			4.70
	Bromacil	70.5	72.4	89.2	90.4	2.61			1.37
	Butylate	64.7	52.2	55.3	52.1	21.3			5.99
	Carbophenothion	44.2	43.8	89.2	114	0.843			24.5

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Chlorothalonil	68.5	40.9	53.4	74.6	50.6	33.1
	Chlorpyrifos Ethyl	91.5	85.9	89.5	86.6	6.36	3.24
	Chlorpyrifos Methyl	96.5	84.4	93.0	96.5	13.3	3.69
	Cyanazine	107	93.6	98.9	103	13.3	4.41
	Cypermethrin	121	132	98.9	128	9.08	25.8
	DDD-p,p'	88.2	92.2	74.8	92.8	4.45	21.4
	DDE-p,p'	76.7	81.2	66.4	85.1	5.65	24.6
	DDT-p,p'	81.2	84.4	71.5	89.4	3.80	22.3
	Delta-BHC	103	121	96.0	110	16.2	13.3
	Demeton	98.8	81.1	103	106	19.6	2.49
	Diazinon	93.0	87.2	107	108	6.47	1.15
	Dicofol	45.3	55.6	43.0	46.8	20.4	8.49
	Dieldrin	70.6	80.6	77.1	91.1	13.2	16.6
	Disulfoton	89.1	71.5	89.8	92.3	21.9	2.69
	Endosulfan I	86.3	84.7	74.5	93.3	1.93	22.4
	Endosulfan II	95.0	91.4	79.3	99.2	3.91	22.3
	Endosulfan Sulfate	84.3	81.7	87.3	96.0	3.15	9.56
	Endrin	80.1	81.2	67.8	85.6	1.29	23.2
	Endrin Aldehyde	77.3	81.4	66.6	78.1	5.17	15.8
	Endrin Ketone	73.6	70.9	71.2	89.9	3.82	23.2
	EPTC	63.8	50.8	52.7	52.7	22.6	0.0211
	Ethion	94.8	92.9	100	101	2.03	1.10
	Ethoprop	97.8	81.4	112	116	18.3	3.38
	Fenamiphos	106	92.4	94.1	98.0	13.2	4.01
	Fipronil	92.6	93.9	91.8	92.3	1.43	0.514
	Fipronil Sulfide	86.4	89.1	79.8	81.1	3.12	1.65
	Fipronil Sulfone	75.6	83.6	66.4	68.4	9.97	3.02
	Fonofos	91.9	76.5	104	104	18.3	0.396
	Gamma-BHC	87.0	88.0	101	92.8	1.14	8.04
	Gamma-Chlordane	75.6	78.3	67.2	85.1	3.53	23.5
	Heptachlor	71.1	75.0	64.6	82.8	5.35	24.7
	Heptachlor Epoxide	76.6	79.0	76.1	89.6	3.03	16.3
	Hexazinone	88.5	89.8	96.3	97.5	1.41	1.09
	Malathion	103	95.9	101	104	7.00	2.82
	Metalaxyl	87.0	72.5	90.4	90.3	18.2	0.142
	Methoxychlor	95.0	94.1	89.4	102	0.932	13.4
	Metolachlor	91.3	90.2	99.1	98.3	1.25	0.769
	Metribuzin	120	98.5	116	114	19.5	1.94
	Mevinphos	97.7	74.1	108	111	27.6	2.86
	Mirex	63.8	61.5	59.5	79.4	3.76	28.6
	Molinate	68.7	57.1	66.3	65.2	18.5	1.65
	Norflurazon	92.1	86.4	87.5	87.3	6.39	0.258
	Parathion Ethyl	95.3	95.5	101	100	0.125	1.06
	Parathion Methyl	103	94.8	108	109	8.30	0.524
	Pendimethalin	90.2	89.1	98.3	98.6	1.25	0.210
	Permethrin	100	111	78.8	107	10.4	30.6
	Phorate	115	83.1	115	109	32.0	5.40
	Prometon	102	85.8	117	116	16.8	0.593
	Prometryn	102	90.4	91.6	90.6	12.4	1.07
	Simazine	97.3	92.2	93.4	98.3	5.38	4.32
	Terbufos	91.6	75.5	107	106	19.2	0.876
	Terbutylazine	92.4	91.7	99.4	97.9	0.753	1.58
	Trifluralin	99.7	95.4	109	133	4.36	19.3
	Toxaphene	90.3	98.7	98.2	90.1	8.84	8.59
EPA 8276							

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Glyphosate	91.2	101	97.0		4.44
	Pyraclostrobin	47.2	89.6	101		11.8
	Sucralose	79.3	94.3	75.7		19.4
SM 2120 B	Color (true)				2.66	
SM 2320 B-97	Total Alkalinity	104			0.861	
	Total Alkalinity	104			0.505	
	Total Alkalinity	104			0.218	
SM 2540 C-97	TDS				0.255	
	TDS				0.687	
SM 2540 D-97	TSS				3.92	
SM 4500 F-C-97	Fluoride	94.8	94.4	96.4		1.00
	Fluoride	94.7	93.0	97.7		3.98
	Fluoride	97.1	101	105		2.42
SM 5310 B-00	Organic Carbon	94.7	90.0	94.0		2.71
	Organic Carbon	94.6	93.9	93.0		0.927
USGS O-2060-01	2,4-D	66.6	71.4	63.8		10.5
	2,4-D	90.0	98.6	131		2.71
	Acetaminophen	48.4	79.2	75.4		4.92
	Acetaminophen	119	119	126		5.38
	Bentazon	63.2	31.4	28.0		11.4
	Bentazon	71.6	36.8	41.0		4.39
	Carbamazepine	92.2	69.6	62.2		11.2
	Carbamazepine	127	76.8	92.0		18.0
	Diuron	89.0	57.8	52.0		10.6
	Diuron	129	62.4	74.0		14.1
	Fenuron	88.8	49.4	67.6		23.4
	Fenuron	111				4.58
	Fluridone	85.0	75.0	65.6		13.4
	Fluridone	127				10.3
	Imidacloprid	77.0	120	111		7.63
	Imidacloprid	110	144	177		15.9
	Linuron	74.6	77.0	70.4		8.96
	Linuron	117	91.0	104		12.9
	MCPP	81.2	64.0	54.2		16.6
	MCPP	101	72.0	75.4		4.61
	Primidone	78.6	64.2	62.4		2.84
	Primidone	112	79.2	94.4		17.5
	Triclopyr	77.4	67.4	63.2		6.43
	Triclopyr	101	84.8	85.8		1.17

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1901697, 1901698, 1901699, 1901700, 1901709, 1901712, 1901715, 1901718
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1901736, 1901737, 1901738, 1901739, 1901740, 1901741
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1901736, 1901737, 1901738, 1901739, 1901740, 1901741
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1901697, 1901698, 1901699, 1901700, 1901709, 1901712, 1901715
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1901697, 1901698, 1901699, 1901700, 1901709, 1901712, 1901715

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1901701, 1901702, 1901703, 1901704, 1901710, 1901713, 1901716, 1901719
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1901701, 1901702, 1901703, 1901704, 1901710, 1901713, 1901716, 1901719
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1901701, 1901702, 1901703, 1901704, 1901710, 1901713, 1901716, 1901719
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1901701, 1901702, 1901703, 1901704, 1901710, 1901713, 1901716, 1901719
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1901705, 1901706, 1901707, 1901708, 1901711, 1901714, 1901717, 1901720
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	1901734
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1901735
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	1901734
EPA 8321B / E31780	Glyphosate in water matrices by HPLC/MS/MS	1901733
EPA 8321B / E31780	Pyraclostrobin in water matrices by HPLC/MS/MS	1901733
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	1901732, 1901733
SM 2120 B / E31780	True Color measured at 450 nm	1901697, 1901698, 1901699, 1901700, 1901709, 1901712, 1901715
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1901697, 1901698, 1901699, 1901700, 1901709, 1901712, 1901715, 1901718
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1901697, 1901698, 1901699, 1901700, 1901709, 1901712, 1901715
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1901697, 1901698, 1901699, 1901700, 1901709, 1901712, 1901715, 1901718
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1901697, 1901698, 1901699, 1901700, 1901709, 1901712, 1901715, 1901718
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1901701, 1901702, 1901703, 1901704, 1901710, 1901713, 1901716, 1901719
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1901732, 1901733
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1901732, 1901733

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	05/25/2017			05/25/2017 14:44	Sima Feizi	1901697, 1901698, 1901699, 1901700, 1901709, 1901712, 1901715, 1901718
EPA 200.7 Rev. 4.4	05/25/2017	05/30/2017	Elliott D. Healy	06/02/2017	Betina Topolski	1901736, 1901737, 1901738, 1901739, 1901740, 1901741
EPA 200.8 Rev. 5.4	05/25/2017	05/30/2017	Elliott D. Healy	06/06/2017	Robert K Palmer	1901736, 1901737, 1901738, 1901739, 1901740, 1901741
	05/25/2017	05/30/2017	Elliott D. Healy	06/07/2017	Robert K Palmer	1901736, 1901737, 1901738, 1901739, 1901740, 1901741
	05/25/2017	06/12/2017	Elliott D. Healy	06/13/2017	Robert K Palmer	1901736, 1901737, 1901738, 1901739, 1901740, 1901741
EPA 300.0 Rev. 2.1	05/25/2017			06/09/2017	Julia Storbeck	1901699, 1901700, 1901712
	05/25/2017			06/12/2017	Julia Storbeck	1901697, 1901699, 1901700, 1901709, 1901712
	05/25/2017			06/13/2017	Julia Storbeck	1901698, 1901715
EPA 350.1 Rev. 2.0	05/25/2017			05/26/2017	Julia Storbeck	1901701, 1901702, 1901703, 1901704, 1901710, 1901713, 1901716
	05/25/2017			06/01/2017	Julie Michelle Frank	1901719
EPA 351.2 Rev. 2.0	05/25/2017	05/30/2017	Adrian Shelby	06/01/2017	Joseph Suarez	1901701, 1901702, 1901703, 1901704, 1901710, 1901713, 1901716, 1901719
EPA 353.2 Rev. 2.0	05/25/2017			05/30/2017	Beverly Y. Sanders	1901701, 1901702, 1901703, 1901704, 1901710, 1901713, 1901716
	05/25/2017			06/01/2017	Beverly Y. Sanders	1901719
EPA 365.1 Rev. 2.0	05/25/2017	05/30/2017	Adrian Shelby	06/01/2017	Lipi Saha	1901701, 1901702, 1901703, 1901704, 1901710, 1901713, 1901716, 1901719
EPA 365.1 Rev. 2.0 dissolved	05/25/2017			05/25/2017 15:00	Anthony C. Onicha	1901706
	05/25/2017			05/25/2017 15:16	Anthony C. Onicha	1901705
	05/25/2017			05/25/2017 15:17	Anthony C. Onicha	1901707
	05/25/2017			05/25/2017 15:18	Anthony C. Onicha	1901708
	05/25/2017			05/25/2017 15:19	Anthony C. Onicha	1901711
	05/25/2017			05/25/2017 15:25	Anthony C. Onicha	1901714
	05/25/2017			05/25/2017 15:29	Anthony C. Onicha	1901717
	05/25/2017			05/25/2017 15:30	Anthony C. Onicha	1901720
EPA 8270D	05/25/2017	05/26/2017	Fe-Val Siddell	06/01/2017	Marek Topolski	1901735
	05/25/2017	05/26/2017	Rasheda Ghaffari	06/01/2017	Marek Topolski	1901734
EPA 8276	05/25/2017	05/26/2017	Rasheda Ghaffari	06/03/2017	John P. Burgos	1901734
EPA 8321B	05/25/2017	05/26/2017	Fe-Val Siddell	05/31/2017	Juyoung Kim	1901733
	05/25/2017	05/26/2017	Mohammad Ghaffari	05/26/2017	Mohammad Ghaffari	1901733
	05/25/2017	05/27/2017	Mohammad Ghaffari	05/28/2017	Mohammad Ghaffari	1901732, 1901733
SM 2120 B	05/25/2017			05/25/2017 15:03	Tanya Welborn	1901697
	05/25/2017			05/25/2017 15:04	Tanya Welborn	1901698
	05/25/2017			05/25/2017 15:05	Tanya Welborn	1901699
	05/25/2017			05/25/2017 15:06	Tanya Welborn	1901700

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2120 B	05/25/2017			05/25/2017 15:07	Tanya Welborn	1901709, 1901712
	05/25/2017			05/25/2017 15:08	Tanya Welborn	1901715
SM 2320 B-97	05/25/2017			05/27/2017	Dale L. Simmons	1901718
	05/25/2017			05/30/2017	Dale L. Simmons	1901697, 1901698
	05/25/2017			05/31/2017	Dale L. Simmons	1901699, 1901700, 1901709, 1901712, 1901715
SM 2540 C-97	05/25/2017			05/30/2017	Sima Feizi	1901697, 1901698, 1901699, 1901700, 1901709, 1901712, 1901715
SM 2540 D-97	05/25/2017			05/30/2017	Sima Feizi	1901697, 1901698, 1901699, 1901700, 1901709, 1901712, 1901715, 1901718
SM 4500 F-C-97	05/25/2017			05/27/2017	Dale L. Simmons	1901718
	05/25/2017			05/30/2017	Dale L. Simmons	1901697, 1901698
	05/25/2017			05/31/2017	Dale L. Simmons	1901699, 1901700, 1901709, 1901712, 1901715
SM 5310 B-00	05/25/2017			05/31/2017	Julie Michelle Frank	1901701, 1901702, 1901703, 1901704, 1901710, 1901713, 1901716
USGS O-2060-01	05/25/2017			06/05/2017	Christopher Armour	1901719
	05/25/2017	05/30/2017	Hoor Shaik	05/31/2017	Juyoung Kim	1901732
	05/25/2017	05/30/2017	Hoor Shaik	06/02/2017	Juyoung Kim	1901732
	05/25/2017	05/31/2017	Hoor Shaik	06/02/2017	Juyoung Kim	1901733