

Chemical Analysis Report

SO-DIST-2017-10-26-01

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

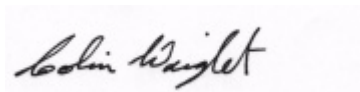
Event Description: **Sarasota Streams**
Request ID: **RQ-2017-10-23-02**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901-3381
Attn: Ben Paswater

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

Certified by: Colin Wright, Program Administrator

Date Certified: 29-NOV-2017 14:07



NON-CONFORMANCE REPORT INCLUDED

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: WALKER CREEK AT 32ND STREET

Collection Date/Time: 10/25/2017 10:10

Field ID: G2SD102517-1

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1940295	EPA 180.1 Rev. 2.0	Turbidity	2.9		NTU	P334128	
	EPA 300.0 Rev. 2.1	Chloride	47		mg Cl/L	P334678	
		Sulfate	70		mg SO4/L	P334679	
	SM 2120 B	Color (true)	81		PCU	P334153	
	SM 2320 B-97	Total Alkalinity	131		mg CaCO3/L	P334234	
	SM 2540 C-97	TDS	327	A	mg/L	P334420	
	SM 2540 D-97	TSS	2	UA	mg/L	P334964	
	SM 4500 F-C-97	Fluoride	0.47		mg F/L	P334461	
1940299	EPA 350.1 Rev. 2.0	Ammonia-N	0.058		mg N/L	P334646	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.82		mg N/L	P334454	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.30		mg N/L	P334456	
	EPA 365.1 Rev. 2.0	Total-P	0.35		mg P/L	P334306	
	SM 5310 B-00	Organic Carbon	16		mg C/L	P334706	
1940303	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.26		mg P/L	P334136	
1940329	EPA 200.7 Rev. 4.4	Calcium	59.7		mg/L	P334381	
		Iron	510		ug/L	P334381	
		Magnesium	14.3		mg/L	P334381	
		Potassium	3.5		mg/L	P334381	
		Sodium	29.8		mg/L	P334381	
	EPA 200.8 Rev. 5.4	Zinc	5.0	U	ug/L	P334381	
		Arsenic	3.61		ug/L	P334381	
		Cadmium	0.020	U	ug/L	P334381	
		Chromium	0.79	I	ug/L	P334381	
		Copper	1.14		ug/L	P334381	
		Lead	0.23		ug/L	P334381	
		Nickel	1.03		ug/L	P334381	
		Silver	0.010	U	ug/L	P334381	

Ref. Method and Comment:

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

SM 5310 B-00: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: WALKER CREEK AT 32ND STREET

Collection Date/Time: 10/25/2017 10:10

Field ID: G2SD102517-1

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1940315	EPA 8321B	Glyphosate**	3.9		ug/L	P334110	
		Pyraclostrobin**	0.0020	U	ug/L	P334111	
		Sucralose**	0.37		ug/L	P334230	
	USGS O-2060-01	2,4-D	0.034	Q	ug/L	P335526	
		Diuron	0.011		ug/L	P334217	
		Fenuron	0.0080	U	ug/L	P334217	
		Imidacloprid	0.051		ug/L	P334217	MS
		Bentazon	0.0055	Q	ug/L	P335526	
		Linuron	0.0040	U	ug/L	P334217	

Field ID: G2SD102517-1

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1940315	USGS O-2060-01	Acetaminophen**	0.0080	UJ	ug/L	P334217	LCS
		MCP	0.0032	IQ	ug/L	P335526	
		Carbamazepine**	0.0058		ug/L	P334217	MS
		Triclopyr**	0.0040	UQ	ug/L	P335526	
		Primidone**	0.011	I	ug/L	P334217	
		Fluridone**	0.49		ug/L	P334217	
1940321	EPA 8270D	Aldrin	4.7	U	ng/L	P334412	
		Alpha-BHC	2.4	U	ng/L	P334412	
		Beta-BHC	4.7	U	ng/L	P334412	
		Delta-BHC	4.7	U	ng/L	P334412	
		Gamma-BHC	4.7	U	ng/L	P334412	
		Carbophenothion	4.7	U	ng/L	P334412	
		Chlorothalonil	2.4	U	ng/L	P334412	
		Cypermethrin	24	U	ng/L	P334412	
		DDD-p,p'	3.5	U	ng/L	P334412	
		DDE-p,p'	3.5	U	ng/L	P334412	
		DDT-p,p'	3.5	U	ng/L	P334412	
		Dieldrin	4.7	U	ng/L	P334412	
		Endosulfan I	4.7	U	ng/L	P334412	
		Endosulfan II	4.7	U	ng/L	P334412	
		Endosulfan Sulfate	2.4	U	ng/L	P334412	
		Endrin	2.4	U	ng/L	P334412	
		Endrin Aldehyde	2.4	U	ng/L	P334412	
		Heptachlor	1.8	U	ng/L	P334412	
		Heptachlor Epoxide	2.4	U	ng/L	P334412	
		Methoxychlor	4.7	U	ng/L	P334412	
		Mirex	2.4	U	ng/L	P334412	
		Permethrin	12	U	ng/L	P334412	
		Trifluralin	1.2	U	ng/L	P334412	
		Alpha-Chlordane	1.2	U	ng/L	P334412	
		Gamma-Chlordane	1.2	U	ng/L	P334412	
		Endrin Ketone	2.4	U	ng/L	P334412	
		Dicofol	35	U	ng/L	P334412	
	EPA 8276	Chlordane**	3.0	U	ng/L	P334412	
		Toxaphene**	15	U	ng/L	P334412	
1940325	EPA 8270D	Alachlor	0.24	U	ng/L	P334190	
		Ametryn	0.31	U	ng/L	P334190	
		Atrazine	48		ng/L	P334190	
		Atrazine Desethyl	2.1	I	ng/L	P334190	
		Azinphos Methyl	2.2	U	ng/L	P334190	
		Bromacil	10		ng/L	P334190	
		Butylate	0.38	U	ng/L	P334190	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P334190	
		Chlorpyrifos Methyl	0.096	U	ng/L	P334190	MS
		Demeton	1.9	U	ng/L	P334190	RPD

Field ID: G2SD102517-1

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1940325	EPA 8270D	Diazinon	0.12	U	ng/L	P334190	
		Disulfoton	0.48	U	ng/L	P334190	
		EPTC	1.2	U	ng/L	P334190	
		Ethion	0.14	U	ng/L	P334190	
		Ethoprop	0.096	U	ng/L	P334190	
		Fenamiphos	0.24	U	ng/L	P334190	
		Fipronil	1.3		ng/L	P334190	MS
		Fipronil Sulfide	0.89		ng/L	P334190	
		Fipronil Sulfone	2.4		ng/L	P334190	MS
		Hexazinone	0.99	I	ng/L	P334190	
		Malathion	0.34	U	ng/L	P334190	
		Metribuzin	0.48	IJ	ng/L	P334190	MS, RPD
		Mevinphos	0.48	U	ng/L	P334190	
		Molinate	0.29	U	ng/L	P334190	
		Norflurazon	0.48	U	ng/L	P334190	
		Pendimethalin	0.96	U	ng/L	P334190	
		Phorate	0.24	U	ng/L	P334190	
		Prometon	1.5	I	ng/L	P334190	
		Prometryn	0.19	U	ng/L	P334190	
		Simazine	5.6		ng/L	P334190	
		Terbufos	0.096	UJ	ng/L	P334190	LCS
		Terbutylazine	0.41	U	ng/L	P334190	
		Fonofos	0.19	U	ng/L	P334190	
		Metalaxyl	0.68	I	ng/L	P334190	
		Metolachlor	1.9		ng/L	P334190	
		Acetochlor	0.24	U	ng/L	P334190	
		Cyanazine	0.48	UJ	ng/L	P334190	LCS, MS, RPD
		Parathion Ethyl	0.24	U	ng/L	P334190	
		Parathion Methyl	0.24	U	ng/L	P334190	

Ref. Method and Comment:

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

USGS O-2060-01: Results confirmed in re-extraction. Refer to the narrative for an explanation of QC Codes.

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

Sample Location: WALKER CREEK AT 32ND STREET

Collection Date/Time: 10/25/2017 10:10

Field ID: G2SD102517-1

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1940319	EPA 8321B	Sucralose**	0.39		ug/L	P334230	
	USGS O-2060-01	2,4-D	0.034	Q	ug/L	P335526	
		Diuron	0.010		ug/L	P334217	
		Fenuron	0.0080	U	ug/L	P334217	
		Imidacloprid	0.043		ug/L	P334217	MS
		Bentazon	0.0055	Q	ug/L	P335526	
		Linuron	0.0040	U	ug/L	P334217	

Field ID: G2SD102517-1

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1940319	USGS O-2060-01	Acetaminophen**	0.0080	UJ	ug/L	P334217	LCS
		MCP	0.0035	IQ	ug/L	P335526	
		Carbamazepine**	0.0052		ug/L	P334217	MS
		Triclopyr**	0.0040	UQ	ug/L	P335526	
		Primidone**	0.0088	I	ug/L	P334217	
		Fluridone**	0.40		ug/L	P334217	

Ref. Method and Comment:

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

USGS O-2060-01: Results confirmed in re-extraction. Refer to the narrative for an explanation of QC Codes.

Sample Location: INDIAN CREEK @ FRUITVILLE RD.

Collection Date/Time: 10/25/2017 11:00

Field ID: G2SD102517-2

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1940296	EPA 180.1 Rev. 2.0	Turbidity	8.2		NTU	P334128	
	EPA 300.0 Rev. 2.1	Chloride	18		mg Cl/L	P334678	
		Sulfate	66		mg SO4/L	P334679	
	SM 2120 B	Color (true)	84		PCU	P334153	
	SM 2320 B-97	Total Alkalinity	63		mg CaCO3/L	P334234	
	SM 2540 C-97	TDS	212		mg/L	P334420	
	SM 2540 D-97	TSS	3	I	mg/L	P334964	
	SM 4500 F-C-97	Fluoride	0.51		mg F/L	P334461	
1940300	EPA 350.1 Rev. 2.0	Ammonia-N	0.094		mg N/L	P334646	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.73		mg N/L	P334454	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.22		mg N/L	P334456	
	EPA 365.1 Rev. 2.0	Total-P	0.61		mg P/L	P334306	
	SM 5310 B-00	Organic Carbon	13		mg C/L	P334706	
1940304	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.41		mg P/L	P334136	
	dissolved						
1940330	EPA 200.7 Rev. 4.4	Calcium	31.9		mg/L	P334381	
		Iron	1.52E+03		ug/L	P334381	
		Magnesium	13.5		mg/L	P334381	
		Potassium	3.1		mg/L	P334381	
		Sodium	11.0		mg/L	P334381	
		Zinc	5.0	U	ug/L	P334381	
	EPA 200.8 Rev. 5.4	Arsenic	1.42		ug/L	P334381	
		Cadmium	0.020	U	ug/L	P334381	
		Chromium	0.99	I	ug/L	P334381	
		Copper	0.88		ug/L	P334381	
		Lead	0.13	I	ug/L	P334381	
		Nickel	0.40	I	ug/L	P334381	
		Silver	0.010	U	ug/L	P334381	

Ref. Method and Comment:

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

SM 5310 B-00: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: INDIAN CREEK @ FRUITVILLE RD.

Collection Date/Time: 10/25/2017 11:00

Field ID: G2SD102517-2

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1940316	EPA 8321B USGS O-2060-01	Glyphosate**	0.13	I	ug/L	P334110	
		Pyraclostrobin**	0.0020	U	ug/L	P334111	
		Sucralose**	0.010	U	ug/L	P334230	
		2,4-D	0.0020	UQ	ug/L	P335526	
		Diuron	8.0E-04	U	ug/L	P334217	
		Fenuron	0.0080	U	ug/L	P334217	
		Imidacloprid	0.14		ug/L	P334217	MS
		Bentazon	8.0E-04	UQ	ug/L	P335526	
		Linuron	0.0040	U	ug/L	P334217	
		Acetaminophen**	0.0080	UJ	ug/L	P334217	LCS
		MCP	0.0020	UQ	ug/L	P335526	
		Carbamazepine**	4.0E-04	U	ug/L	P334217	MS
		Triclopyr**	0.0040	UQ	ug/L	P335526	
		Primidone**	0.0040	U	ug/L	P334217	
		Fluridone**	4.0E-04	U	ug/L	P334217	
1940326	EPA 8270D	Alachlor	0.24	U	ng/L	P334190	
		Ametryn	0.31	U	ng/L	P334190	
		Atrazine	1.1		ng/L	P334190	
		Atrazine Desethyl	1.4	U	ng/L	P334190	
		Azinphos Methyl	2.2	U	ng/L	P334190	
		Bromacil	0.48	U	ng/L	P334190	
		Butylate	0.38	U	ng/L	P334190	
		Chlorpyrifos Ethyl	0.29	I	ng/L	P334190	
		Chlorpyrifos Methyl	0.096	U	ng/L	P334190	MS
		Demeton	1.9	U	ng/L	P334190	RPD
		Diazinon	0.12	U	ng/L	P334190	
		Disulfoton	0.48	U	ng/L	P334190	
		EPTC	1.2	U	ng/L	P334190	
		Ethion	0.14	U	ng/L	P334190	
		Ethoprop	0.096	U	ng/L	P334190	
		Fenamiphos	0.24	U	ng/L	P334190	
		Fipronil	0.24	U	ng/L	P334190	MS
		Fipronil Sulfide	0.14	U	ng/L	P334190	
		Fipronil Sulfone	0.14	U	ng/L	P334190	MS
		Hexazinone	0.48	U	ng/L	P334190	
		Malathion	0.33	U	ng/L	P334190	
		Metribuzin	0.19	UJ	ng/L	P334190	MS, RPD
		Mevinphos	0.48	U	ng/L	P334190	
		Molinate	0.29	U	ng/L	P334190	
		Norflurazon	1.1	I	ng/L	P334190	
		Pendimethalin	0.96	U	ng/L	P334190	
		Phorate	0.24	U	ng/L	P334190	
		Prometon	0.86	U	ng/L	P334190	
		Prometryn	0.19	U	ng/L	P334190	
		Simazine	0.48	U	ng/L	P334190	

Field ID: G2SD102517-2

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1940326	EPA 8270D	Terbufos	0.096	UJ	ng/L	P334190	LCS
		Terbutylazine	0.41	U	ng/L	P334190	
		Fonofos	0.19	U	ng/L	P334190	
		Metalaxyl	6.7		ng/L	P334190	
		Metolachlor	1.8		ng/L	P334190	
		Acetochlor	0.24	U	ng/L	P334190	
		Cyanazine	0.48	UJ	ng/L	P334190	LCS, MS, RPD
		Parathion Ethyl	0.24	U	ng/L	P334190	
		Parathion Methyl	0.24	U	ng/L	P334190	

Ref. Method and Comment:

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

USGS O-2060-01: Refer to the narrative for an explanation of QC Codes.

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

Sample Location: HOWARD CREEK N.E. BRANCH LOT 185

Collection Date/Time: 10/25/2017 11:40

Field ID: G2SD102517-3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1940297	EPA 180.1 Rev. 2.0	Turbidity	22	A	NTU	P334129	
	EPA 300.0 Rev. 2.1	Chloride	32		mg Cl/L	P334678	
		Sulfate	13		mg SO4/L	P334679	
		Color (true)	96		PCU	P334155	
	SM 2320 B-97	Total Alkalinity	58		mg CaCO3/L	P334340	
	SM 2540 C-97	TDS	172		mg/L	P334420	
	SM 2540 D-97	TSS	9	I	mg/L	P334964	
	SM 4500 F-C-97	Fluoride	0.46		mg F/L	P334341	
1940301	EPA 350.1 Rev. 2.0	Ammonia-N	0.082		mg N/L	P334646	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.90		mg N/L	P334454	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.20		mg N/L	P334456	
	EPA 365.1 Rev. 2.0	Total-P	0.65		mg P/L	P334306	
	SM 5310 B-00	Organic Carbon	16		mg C/L	P334706	
1940305	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.40		mg P/L	P334136	
1940331	EPA 200.7 Rev. 4.4	Calcium	25.0		mg/L	P334381	
		Iron	3.48E+03		ug/L	P334381	
		Magnesium	8.50		mg/L	P334381	
		Potassium	1.4		mg/L	P334381	
		Sodium	11.9		mg/L	P334381	
		Zinc	5.0	U	ug/L	P334381	
	EPA 200.8 Rev. 5.4	Arsenic	2.61		ug/L	P334381	
		Cadmium	0.020	U	ug/L	P334381	
		Chromium	2.1		ug/L	P334381	
		Copper	0.43	I	ug/L	P334381	
		Lead	0.40		ug/L	P334381	
		Nickel	1.06		ug/L	P334381	
		Silver	0.010	U	ug/L	P334381	

Field ID: G2SD102517-3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
Ref. Method and Comment:							
SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.							
SM 5310 B-00: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.							

Sample Location: HOWARD CREEK N.E. BRANCH LOT 185

Collection Date/Time: 10/25/2017 11:40

Field ID: G2SD102517-3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1940317	EPA 8321B	Glyphosate**	0.10	U	ug/L	P334110	
		Pyraclostrobin**	0.0020	U	ug/L	P334111	
		Sucralose**	0.15		ug/L	P334230	
	USGS O-2060-01	2,4-D	0.0020	UQ	ug/L	P335526	
		Diuron	8.0E-04	U	ug/L	P334217	
		Fenuron	0.0080	U	ug/L	P334217	
		Imidacloprid	0.0015	I	ug/L	P334217	MS
		Bentazon	0.026	Q	ug/L	P335526	
		Linuron	0.0040	U	ug/L	P334217	
		Acetaminophen**	0.0080	UJ	ug/L	P334217	LCS
		MCP	0.0020	UQ	ug/L	P335526	
		Carbamazepine**	4.0E-04	U	ug/L	P334217	MS
		Triclopyr**	0.0040	UQ	ug/L	P335526	
		Primidone**	0.0040	U	ug/L	P334217	
		Fluridone**	4.0E-04	U	ug/L	P334217	
1940327	EPA 8270D	Alachlor	0.24	U	ng/L	P334190	
		Ametryn	0.32	U	ng/L	P334190	
		Atrazine	1.0		ng/L	P334190	
		Atrazine Desethyl	1.5	U	ng/L	P334190	
		Azinphos Methyl	2.2	U	ng/L	P334190	
		Bromacil	0.48	U	ng/L	P334190	
		Butylate	0.39	U	ng/L	P334190	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P334190	
		Chlorpyrifos Methyl	0.097	U	ng/L	P334190	MS
		Demeton	1.9	U	ng/L	P334190	RPD
		Diazinon	0.12	U	ng/L	P334190	
		Disulfoton	0.48	U	ng/L	P334190	
		EPTC	1.2	U	ng/L	P334190	
		Ethion	0.15	U	ng/L	P334190	
		Ethoprop	0.097	U	ng/L	P334190	
		Fenamiphos	0.24	U	ng/L	P334190	
		Fipronil	0.24	U	ng/L	P334190	MS
		Fipronil Sulfide	0.19	I	ng/L	P334190	
		Fipronil Sulfone	0.40	I	ng/L	P334190	MS
		Hexazinone	3.0		ng/L	P334190	
		Malathion	0.34	U	ng/L	P334190	
		Metribuzin	0.19	UJ	ng/L	P334190	MS, RPD
		Mevinphos	0.48	U	ng/L	P334190	

Field ID: G2SD102517-3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1940327	EPA 8270D	Molinate	0.29	U	ng/L	P334190	
		Norflurazon	0.48	U	ng/L	P334190	
		Pendimethalin	0.97	U	ng/L	P334190	
		Phorate	0.24	U	ng/L	P334190	
		Prometon	0.87	U	ng/L	P334190	
		Prometryn	0.19	U	ng/L	P334190	
		Simazine	0.48	U	ng/L	P334190	
		Terbufos	0.097	UJ	ng/L	P334190	LCS
		Terbuthylazine	0.41	U	ng/L	P334190	
		Fonofos	0.19	U	ng/L	P334190	
		Metalaxyl	0.24	U	ng/L	P334190	
		Metolachlor	3.2		ng/L	P334190	
		Acetochlor	0.24	U	ng/L	P334190	
		Cyanazine	0.48	UJ	ng/L	P334190	LCS, MS, RPD
		Parathion Ethyl	0.24	U	ng/L	P334190	
		Parathion Methyl	0.24	U	ng/L	P334190	

Ref. Method and Comment:

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

USGS O-2060-01: Refer to the narrative for an explanation of QC Codes.

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

Sample Location: NORTH CREEK BY OAKS CREEK CT.

Collection Date/Time: 10/25/2017 12:35

Field ID: G2SD102517-4

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1940298	EPA 180.1 Rev. 2.0	Turbidity	4.8		NTU	P334129	
	EPA 300.0 Rev. 2.1	Chloride	45		mg Cl/L	P334678	
		Sulfate	99		mg SO4/L	P334679	
	SM 2120 B	Color (true)	81		PCU	P334153	
	SM 2320 B-97	Total Alkalinity	167		mg CaCO3/L	P334340	
	SM 2540 C-97	TDS	404	A	mg/L	P334421	
	SM 2540 D-97	TSS	5	I	mg/L	P334964	
	SM 4500 F-C-97	Fluoride	0.29		mg F/L	P334341	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.076		mg N/L	P334646	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.98		mg N/L	P334536	
1940302	EPA 353.2 Rev. 2.0	NO2NO3-N	0.062		mg N/L	P334456	
	EPA 365.1 Rev. 2.0	Total-P	0.14		mg P/L	P334306	
	SM 5310 B-00	Organic Carbon	16		mg C/L	P334706	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.082		mg P/L	P334136	
	EPA 200.7 Rev. 4.4	Calcium	83.0		mg/L	P334381	
1940306		Iron	330		ug/L	P334381	
		Magnesium	14.0		mg/L	P334381	
		Potassium	3.3		mg/L	P334381	
		Sodium	26.6		mg/L	P334381	
		Zinc	5.0	U	ug/L	P334381	

Field ID: G2SD102517-4

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1940332	EPA 200.8 Rev. 5.4	Arsenic	3.60		ug/L	P334381	
		Cadmium	0.020	U	ug/L	P334381	
		Chromium	0.54	I	ug/L	P334381	
		Copper	4.07		ug/L	P334381	
		Lead	0.15	I	ug/L	P334381	
		Nickel	0.59	I	ug/L	P334381	
		Silver	0.010	U	ug/L	P334381	

Ref. Method and Comment:

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

SM 5310 B-00: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: NORTH CREEK BY OAKS CREEK CT.

Collection Date/Time: 10/25/2017 12:35

Field ID: G2SD102517-4

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1940318	EPA 8321B	Glyphosate**	1.4		ug/L	P334110	
		Pyraclostrobin**	0.0020	U	ug/L	P334111	
		Sucralose**	0.24		ug/L	P334230	
	USGS O-2060-01	2,4-D	0.017	Q	ug/L	P335526	
		Diuron	0.0018	I	ug/L	P334217	
		Fenuron	0.0080	U	ug/L	P334217	
		Imidacloprid	0.13		ug/L	P334217	MS
		Bentazon	0.014	Q	ug/L	P335526	
		Linuron	0.0040	U	ug/L	P334217	
		Acetaminophen**	0.0080	UJ	ug/L	P334217	LCS
		MCP	0.0020	UQ	ug/L	P335526	
		Carbamazepine**	5.4E-04	I	ug/L	P334217	MS
		Triclopyr**	0.0040	UQ	ug/L	P335526	
		Primidone**	0.0040	U	ug/L	P334217	
		Fluridone**	0.26		ug/L	P334217	
1940324	EPA 8270D	Aldrin	4.4	U	ng/L	P334412	
		Alpha-BHC	2.2	U	ng/L	P334412	
		Beta-BHC	4.4	U	ng/L	P334412	
		Delta-BHC	4.4	U	ng/L	P334412	
		Gamma-BHC	4.4	U	ng/L	P334412	
		Carbophenothion	4.4	U	ng/L	P334412	
		Chlorothalonil	2.2	U	ng/L	P334412	
		Cypermethrin	22	U	ng/L	P334412	
		DDD-p,p'	3.3	U	ng/L	P334412	
		DDE-p,p'	3.3	U	ng/L	P334412	
		DDT-p,p'	3.3	U	ng/L	P334412	
		Dieldrin	4.4	U	ng/L	P334412	
		Endosulfan I	4.4	U	ng/L	P334412	
		Endosulfan II	4.4	U	ng/L	P334412	
		Endosulfan Sulfate	2.2	U	ng/L	P334412	
		Endrin	2.2	U	ng/L	P334412	

Field ID: G2SD102517-4

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1940324	EPA 8270D	Endrin Aldehyde	2.2	U	ng/L	P334412	
		Heptachlor	1.7	U	ng/L	P334412	
		Heptachlor Epoxide	2.2	U	ng/L	P334412	
		Methoxychlor	4.4	U	ng/L	P334412	
		Mirex	2.2	U	ng/L	P334412	
		Permethrin	11	U	ng/L	P334412	
		Trifluralin	1.1	U	ng/L	P334412	
		Alpha-Chlordane	1.1	U	ng/L	P334412	
		Gamma-Chlordane	1.1	U	ng/L	P334412	
		Endrin Ketone	2.2	U	ng/L	P334412	
		Dicofol	33	U	ng/L	P334412	
		Chlordane**	2.8	U	ng/L	P334412	
		Toxaphene**	14	U	ng/L	P334412	
		Alachlor	0.24	U	ng/L	P334190	
1940328	EPA 8270D	Ametryn	0.31	U	ng/L	P334190	
		Atrazine	110		ng/L	P334190	
		Atrazine Desethyl	5.9		ng/L	P334190	
		Azinphos Methyl	2.2	U	ng/L	P334190	
		Bromacil	0.48	U	ng/L	P334190	
		Butylate	0.39	U	ng/L	P334190	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P334190	
		Chlorpyrifos Methyl	0.097	U	ng/L	P334190	MS
		Demeton	1.9	U	ng/L	P334190	RPD
		Diazinon	0.12	U	ng/L	P334190	
		Disulfoton	0.48	U	ng/L	P334190	
		EPTC	1.2	U	ng/L	P334190	
		Ethion	0.15	U	ng/L	P334190	
		Ethoprop	0.097	U	ng/L	P334190	
		Fenamiphos	0.24	U	ng/L	P334190	
		Fipronil	0.56	I	ng/L	P334190	MS
		Fipronil Sulfide	0.47	I	ng/L	P334190	
		Fipronil Sulfone	2.2		ng/L	P334190	MS
		Hexazinone	4.6		ng/L	P334190	
		Malathion	0.34	U	ng/L	P334190	
		Metribuzin	0.19	UJ	ng/L	P334190	MS, RPD
		Mevinphos	0.48	U	ng/L	P334190	
		Molinate	0.29	U	ng/L	P334190	
		Norflurazon	0.48	U	ng/L	P334190	
		Pendimethalin	0.97	U	ng/L	P334190	
		Phorate	0.24	U	ng/L	P334190	
		Prometon	0.87	U	ng/L	P334190	
		Prometryn	0.19	U	ng/L	P334190	
		Simazine	0.65	I	ng/L	P334190	
		Terbufos	0.097	UJ	ng/L	P334190	LCS
		Terbutylazine	0.41	U	ng/L	P334190	

Field ID: G2SD102517-4

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1940328	EPA 8270D	Fonofos	0.19	U	ng/L	P334190	
		Metalaxyl	0.44	I	ng/L	P334190	
		Metolachlor	9.3		ng/L	P334190	
		Acetochlor	0.24	U	ng/L	P334190	
		Cyanazine	0.48	UJ	ng/L	P334190	LCS, MS, RPD
		Parathion Ethyl	0.24	U	ng/L	P334190	
		Parathion Methyl	0.24	U	ng/L	P334190	

Ref. Method and Comment:

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

USGS O-2060-01: Results confirmed in re-extraction. Refer to the narrative for an explanation of QC Codes.

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

Sample Location: NORTH CREEK BY OAKS CREEK CT.

Collection Date/Time: 10/25/2017 12:35

Field ID: G2SD102517-4 GROUP C

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1940320	EPA 8321B	Sucralose**	0.26		ug/L	P334230	
	USGS O-2060-01	2,4-D	0.015	Q	ug/L	P335526	
		Diuron	0.0017	I	ug/L	P334217	
		Fenuron	0.0080	U	ug/L	P334217	
		Imidacloprid	0.13		ug/L	P334217	MS
		Bentazon	0.012	Q	ug/L	P335526	
		Linuron	0.0040	U	ug/L	P334217	
		Acetaminophen**	0.0080	UJ	ug/L	P334217	LCS
		MCP	0.0020	UQ	ug/L	P335526	
		Carbamazepine**	4.8E-04	I	ug/L	P334217	MS
		Triclopyr**	0.0040	UQ	ug/L	P335526	
		Primidone**	0.0040	U	ug/L	P334217	
		Fluridone**	0.22		ug/L	P334217	

Ref. Method and Comment:

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

USGS O-2060-01: Results confirmed in re-extraction. Refer to the narrative for an explanation of QC Codes.

Non-Conformance Report

NCR ID: 6781

Event(s)

SO-DIST-2017-10-26-01

SO-DIST-2017-10-26-01

Job(s)

TLH-2017-10-26-68

TLH-2017-10-26-69

Sample(s)

Test(s)

NCR Type: SHIPPING/RECEIVING

NCR Category: Receiving

Observation: Sample containers received did not match up with field sheets or the RQ. Additional LC samples sent for two sites.

Resolution: Email sent to sampling team identifying multiple issues with this event.

Authorized by/Date: Colin Wright 11/29/2017

The Non-Conformance Report details exceptions or problems encountered with the events/jobs/samples/test.
Please address questions to:

Chemistry Colin Wright (850) 245-8085
Biology Cheryl Swanson (850) 245-8177

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P334128

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P334129

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P334381

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: P334381

Component	Result	Code	Units
Arsenic	0.050	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Copper	0.20	U	ug/L
Lead	0.050	U	ug/L
Nickel	0.20	U	ug/L
Silver	0.010	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P334678

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P334679

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P334646

Component	Result	Code	Units
-----------	--------	------	-------

Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P334646

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P334454

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P334536

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P334456

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P334306

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P334136

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

Reference Method: EPA 8270D
Batch ID: P334190

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.32	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.2	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Cyanazine	0.50	U	ng/L
Demeton	2.0	U	ng/L
Diazinon	0.12	U	ng/L
Disulfoton	0.50	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D

Batch ID: P334190

Component	Result	Code	Units
Ethoprop	0.10	U	ng/L
Fenamiphos	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.25	U	ng/L
Metolachlor	0.25	U	ng/L
Metribuzin	0.20	U	ng/L
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Norflurazon	0.50	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.25	U	ng/L
Pendimethalin	1.0	U	ng/L
Phorate	0.25	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Simazine	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L

Reference Method: EPA 8270D

Batch ID: P334412

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D
Batch ID: P334412

Component	Result	Code	Units
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Trifluralin	1.0	U	ng/L

Reference Method: EPA 8276
Batch ID: P334412

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

Reference Method: EPA 8321B
Batch ID: P334110

Component	Result	Code	Units
Glyphosate	0.10	U	ug/L

Reference Method: EPA 8321B
Batch ID: P334111

Component	Result	Code	Units
Pyraclostrobin	0.0020	U	ug/L

Reference Method: EPA 8321B
Batch ID: P334230

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: SM 2120 B
Batch ID: P334153

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P334155

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P334234

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

Reference Method: SM 2320 B-97
Batch ID: P334340

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

Quality Assurance Report Method Blank Results

Reference Method: SM 2540 C-97
Batch ID: P334420

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P334421

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P334964

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P334341

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P334461

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P334706

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

Reference Method: USGS O-2060-01
Batch ID: P334217

Component	Result	Code	Units
Acetaminophen	0.0080	U	ug/L
Carbamazepine	4.0E-04	U	ug/L
Diuron	8.0E-04	U	ug/L
Fenuron	0.0080	U	ug/L
Fluridone	4.0E-04	U	ug/L
Imidacloprid	8.0E-04	U	ug/L
Linuron	0.0040	U	ug/L
Primidone	0.0040	U	ug/L

Reference Method: USGS O-2060-01
Batch ID: P335526

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

Quality Assurance Report Method Blank Results

Reference Method: USGS O-2060-01
 Batch ID: P335526

Component	Result	Code	Units
Triclopyr	0.0040	U	ug/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
 Batch ID: P334381

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Iron	103		P	85 - 115
Magnesium	106		P	85 - 115
Potassium	97.5		P	85 - 115
Sodium	102		P	85 - 115
Zinc	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
 Batch ID: P334381

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	104		P	85 - 115
Cadmium	104		P	85 - 115
Chromium	98.1		P	85 - 115
Copper	98.6		P	85 - 115
Lead	97.1		P	85 - 115
Nickel	101		P	85 - 115
Silver	97.3		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P334678

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

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P334679

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

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P334646

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	105		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P334454

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	108		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P334536

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

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P334456

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	108		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P334306

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P334136

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

Reference Method: EPA 8270D
 Batch ID: P334190

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	99.2	100	P/P	78 - 118
Alachlor	95.1	94.1	P/P	77 - 119
Ametryn	102	98.9	P/P	61 - 136
Atrazine	90.5	94.5	P/P	73 - 120
Atrazine Desethyl	79.9	62.2	P/P	16 - 122
Azinphos Methyl	160	124	P/P	69 - 186
Bromacil	91.4	86.2	P/P	40 - 125
Butylate	62.3	75.2	P/P	32 - 87.0
Chlorpyrifos Ethyl	90.0	97.3	P/P	53 - 110
Chlorpyrifos Methyl	112	111	P/P	31 - 119
Cyanazine	281	119	F/P	36 - 224
Demeton	87.8	93.8	P/P	39 - 122
Diazinon	99.4	93.4	P/P	75 - 119
Disulfoton	87.7	96.9	P/P	42 - 139
EPTC	56.3	69.7	P/P	33 - 96.0
Ethion	119	114	P/P	63 - 127
Ethoprop	89.9	95.7	P/P	65 - 107
Fenamiphos	105	97.1	P/P	64 - 137
Fipronil	104	91.3	P/P	60 - 126
Fipronil Sulfide	95.2	88.8	P/P	58 - 124
Fipronil Sulfone	108	97.1	P/P	57 - 126
Fonofos	85.7	92.4	P/P	65 - 111
Hexazinone	91.2	101	P/P	46 - 151
Malathion	115	105	P/P	68 - 132
Metaxyl	83.3	78.3	P/P	51 - 132
Metolachlor	94.3	92.4	P/P	78 - 119
Metribuzin	137	91.9	P/P	58 - 148
Mevinphos	86.4	98.0	P/P	34 - 128

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
 Batch ID: P334190

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Molinate	67.4	76.7	P/P	44 - 101
Norflurazon	99.5	93.8	P/P	63 - 129
Parathion Ethyl	88.4	91.8	P/P	80 - 109
Parathion Methyl	97.0	112	P/P	74 - 125
Pendimethalin	87.3	97.2	P/P	48 - 134
Phorate	103	106	P/P	52 - 119
Prometon	89.7	96.0	P/P	69 - 124
Prometryn	101	95.8	P/P	66 - 124
Simazine	88.7	101	P/P	61 - 134
Terbufos	113	121	P/F	58 - 115
Terbutylazine	94.0	95.6	P/P	77 - 113

Reference Method: EPA 8270D
 Batch ID: P334412

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	78.4	82.2	P/P	26 - 88.0
Alpha-BHC	88.1	70.7	P/P	63 - 114
Alpha-Chlordane	87.4	89.6	P/P	56 - 117
Beta-BHC	88.1	83.4	P/P	57 - 138
Carbophenothion	97.3	93.5	P/P	36 - 148
Chlorothalonil	79.5	106	P/P	26 - 173
Cypermethrin	91.7	96.9	P/P	42 - 159
DDD-p,p'	93.9	93.6	P/P	62 - 126
DDE-p,p'	91.3	92.9	P/P	53 - 115
DDT-p,p'	96.3	99.7	P/P	54 - 117
Delta-BHC	103	83.3	P/P	68 - 158
Dicofol	66.7	51.7	P/P	25 - 114
Dieldrin	88.6	90.6	P/P	59 - 126
Endosulfan I	91.5	93.1	P/P	62 - 138
Endosulfan II	91.8	92.0	P/P	61 - 150
Endosulfan Sulfate	94.2	92.3	P/P	63 - 132
Endrin	95.7	92.9	P/P	49 - 148
Endrin Aldehyde	91.8	90.7	P/P	50 - 144
Endrin Ketone	93.7	93.4	P/P	66 - 122
Gamma-BHC	90.1	88.3	P/P	60 - 137
Gamma-Chlordane	85.9	88.6	P/P	54 - 113
Heptachlor	81.7	84.7	P/P	43 - 104
Heptachlor Epoxide	89.1	89.8	P/P	64 - 118
Methoxychlor	102	107	P/P	63 - 129
Mirex	85.4	85.5	P/P	39 - 93.0
Permethrin	88.0	93.8	P/P	51 - 123
Trifluralin	83.5	87.0	P/P	35 - 187

Reference Method: EPA 8276
 Batch ID: P334412

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	74.5	71.6	P/P	48 - 121
Toxaphene	99.5	102	P/P	43 - 135

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P334110

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Glyphosate	87.6		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P334111

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pyraclostrobin	62.2		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P334230

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	94.9		P	40 - 150

Reference Method: SM 2320 B-97
Batch ID: P334234

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

Reference Method: SM 2320 B-97
Batch ID: P334340

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

Reference Method: SM 4500 F-C-97
Batch ID: P334341

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.8		P	92 - 103

Reference Method: SM 4500 F-C-97
Batch ID: P334461

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.7		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P334706

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.5		P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P334217

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetaminophen	151		F	30 - 150
Carbamazepine	143		P	40 - 150
Diuron	112		P	40 - 150
Fenuron	117		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: USGS O-2060-01
Batch ID: P334217

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluridone	117		P	40 - 150
Imidacloprid	114		P	40 - 160
Linuron	116		P	40 - 150
Primidone	110		P	40 - 150

Reference Method: USGS O-2060-01
Batch ID: P335526

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	102		P	40 - 150
Bentazon	91.1		P	30 - 150
MCPP	91.5		P	40 - 150
Triclopyr	94.8		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P334381

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1940265	Calcium	101		P	80 - 120
1940265	Iron	105		P	80 - 120
1940265	Magnesium	103		P	80 - 120
1940265	Potassium	97.1		P	80 - 120
1940265	Sodium	97.9		P	80 - 120
1940265	Zinc	99.3		P	80 - 120
1940493	Calcium	99.5		P	80 - 120
1940493	Iron	99.9		P	80 - 120
1940493	Magnesium	106	101	P/P	80 - 120
1940493	Potassium	97.8	93.1	P/P	80 - 120
1940493	Sodium	99.2	95.5	P/P	80 - 120
1940493	Zinc	103	96.7	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P334381

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1940265	Arsenic	104		P	80 - 120
1940265	Cadmium	106		P	80 - 120
1940265	Chromium	98.3		P	80 - 120
1940265	Copper	95.7		P	80 - 120
1940265	Lead	97.2		P	80 - 120
1940265	Nickel	99.7		P	80 - 120
1940265	Silver	98.0		P	80 - 120
1940493	Arsenic	101	102	P/P	80 - 120
1940493	Cadmium	105	106	P/P	80 - 120
1940493	Chromium	101	101	P/P	80 - 120
1940493	Copper	95.9	97.0	P/P	80 - 120
1940493	Lead	96.0	97.4	P/P	80 - 120
1940493	Nickel	99.9	99.9	P/P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P334381

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1940493	Silver	97.7	99.0	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P334678

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1940259	Chloride	104		P	90 - 110
1940442	Chloride	107		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P334679

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1940259	Sulfate	103		P	90 - 110
1940442	Sulfate	106		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P334646

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1940299	Ammonia-N	101	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P334454

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1940301	Kjeldahl Nitrogen	109	105	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P334536

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1940458	Kjeldahl Nitrogen	97.9	98.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P334456

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1940262	NO2NO3-N	107	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P334306

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1940299	Total-P	95.0	94.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P334136

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1940242	O-Phosphate-P	91.0	90.0	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P334190

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1940131	Acetochlor	104	102	P/P	74 - 123
1940131	Alachlor	103	96.3	P/P	73 - 124
1940131	Ametryn	118	110	P/P	56 - 149
1940131	Atrazine Desethyl	83.7	93.4	P/P	12 - 103
1940131	Azinphos Methyl	157	154	P/P	60 - 202
1940131	Bromacil	108	86.8	P/P	42 - 133
1940131	Butylate	33.8	43.1	P/P	10 - 85.0
1940131	Chlorpyrifos Ethyl	109	104	P/P	53 - 113
1940131	Chlorpyrifos Methyl	113	121	P/F	40 - 115
1940131	Cyanazine	307	347	F/F	22 - 210
1940131	Demeton	65.4	101	P/P	17 - 149
1940131	Diazinon	103	101	P/P	72 - 124
1940131	Disulfoton	102	107	P/P	43 - 139
1940131	EPTC	31.1	34.2	P/P	10 - 86.0
1940131	Ethion	126	126	P/P	65 - 131
1940131	Ethoprop	98.3	103	P/P	59 - 110
1940131	Fenamiphos	104	128	P/P	57 - 138
1940131	Fipronil	131	125	F/P	40 - 130
1940131	Fipronil Sulfide	124	119	P/P	36 - 128
1940131	Fipronil Sulfone	201	186	F/F	16 - 145
1940131	Fonofos	85.2	99.3	P/P	60 - 112
1940131	Hexazinone	110	106	P/P	69 - 142
1940131	Malathion	117	119	P/P	68 - 132
1940131	Metalaxyl	101	90.6	P/P	66 - 118
1940131	Metolachlor	104	95.5	P/P	71 - 124
1940131	Metribuzin	154	160	F/F	61 - 140
1940131	Mevinphos	90.4	98.0	P/P	38 - 130
1940131	Molinate	54.2	58.8	P/P	23 - 99.0
1940131	Norflurazon	113	103	P/P	39 - 139
1940131	Parathion Ethyl	90.9	98.7	P/P	75 - 111
1940131	Parathion Methyl	103	111	P/P	64 - 130
1940131	Pendimethalin	111	115	P/P	26 - 173
1940131	Phorate	97.1	113	P/P	43 - 127
1940131	Prometon	126	96.0	P/P	50 - 144
1940131	Prometryn	110	108	P/P	69 - 126
1940131	Simazine	104	108	P/P	51 - 152
1940131	Terbufos	111	125	P/P	54 - 125
1940131	Terbutylazine	105	97.9	P/P	76 - 113

Reference Method: EPA 8270D
Batch ID: P334412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1940366	Aldrin	84.8	86.2	P/P	22 - 97.0
1940366	Alpha-BHC	96.3	98.6	P/P	43 - 132
1940366	Alpha-Chlordane	96.8	96.3	P/P	36 - 126
1940366	Beta-BHC	97.6	75.8	P/P	41 - 150
1940366	Carbophenothion	114	118	P/P	13 - 196
1940366	Chlorothalonil	128	130	P/P	10 - 266
1940366	Cypermethrin	93.6	125	P/P	37 - 161
1940366	DDD-p,p'	105	93.7	P/P	44 - 131
1940366	DDE-p,p'	95.1	95.2	P/P	32 - 127

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P334412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1940366	DDT-p,p'	97.9	103	P/P	45 - 116
1940366	Delta-BHC	124	102	P/P	50 - 201
1940366	Dicofol	64.2	65.1	P/P	10 - 100
1940366	Dieldrin	99.7	95.8	P/P	39 - 142
1940366	Endosulfan I	103	97.9	P/P	51 - 139
1940366	Endosulfan II	98.9	98.7	P/P	49 - 155
1940366	Endosulfan Sulfate	98.2	96.4	P/P	54 - 136
1940366	Endrin	108	103	P/P	38 - 141
1940366	Endrin Aldehyde	89.4	99.6	P/P	14 - 152
1940366	Endrin Ketone	99.8	100	P/P	60 - 128
1940366	Gamma-BHC	95.8	90.6	P/P	48 - 157
1940366	Gamma-Chlordane	93.4	94.1	P/P	35 - 123
1940366	Heptachlor	86.7	91.2	P/P	25 - 112
1940366	Heptachlor Epoxide	101	97.3	P/P	48 - 125
1940366	Methoxychlor	111	114	P/P	52 - 127
1940366	Mirex	85.8	91.3	P/P	25 - 108
1940366	Permethrin	90.3	116	P/P	46 - 133
1940366	Trifluralin	90.9	92.4	P/P	29 - 254

Reference Method: EPA 8276
Batch ID: P334412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1940324	Chlordane	49.4	49.7	P/P	44 - 134
1940324	Toxaphene	72.8	75.2	P/P	36 - 147

Reference Method: EPA 8321B
Batch ID: P334110

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1940315	Glyphosate	101	105	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P334111

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1939436	Pyraclostrobin	55.8	59.6	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P334230

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1940129	Sucralose	94.0	92.6	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P334341

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1940444	Fluoride	105	105	P/P	91 - 105

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P334461

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1940120	Fluoride	99.4	101	P/P	91 - 105

Reference Method: USGS O-2060-01
Batch ID: P334217

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1940229	Acetaminophen	97.1	103	P/P	30 - 150
1940229	Carbamazepine	136	154	P/F	40 - 150
1940229	Diuron	90.8	107	P/P	40 - 150
1940229	Fenuron	102	115	P/P	40 - 150
1940229	Fluridone	104	98.0	P/P	40 - 150
1940229	Imidacloprid	217	250	F/F	40 - 160
1940229	Linuron	108	118	P/P	40 - 150
1940229	Primidone	108	129	P/P	40 - 150

Reference Method: USGS O-2060-01
Batch ID: P335526

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1940027	2,4-D	85.4	83.6	P/P	40 - 150
1940027	Bentazon	87.2	86.7	P/P	30 - 150
1940027	MCPP	71.8	66.5	P/P	40 - 150
1940027	Triclopyr	69.0	65.9	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P334128

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940238	Turbidity	0.738	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P334129

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940297	Turbidity	0.454	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P334381

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940493	Calcium	1.09	Spike	P	0 - 20
1940493	Iron	4.67	Spike	P	0 - 20
1940493	Magnesium	4.52	Spike	P	0 - 20
1940493	Potassium	4.49	Spike	P	0 - 20
1940493	Sodium	2.33	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P334381

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940493	Zinc	4.75	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P334381

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940493	Arsenic	1.07	Spike	P	0 - 20
1940493	Cadmium	0.906	Spike	P	0 - 20
1940493	Chromium	0.540	Spike	P	0 - 20
1940493	Copper	1.03	Spike	P	0 - 20
1940493	Lead	1.30	Spike	P	0 - 20
1940493	Nickel	0.0508	Spike	P	0 - 20
1940493	Silver	1.31	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P334678

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940259	Chloride	0.458	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P334679

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940259	Sulfate	0.255	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P334646

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940299	Ammonia-N	0.713	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P334454

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940301	Kjeldahl Nitrogen	2.01	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P334536

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940458	Kjeldahl Nitrogen	0.321	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P334456

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940262	NO2NO3-N	1.37	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P334306

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940299	Total-P	0.400	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P334136

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940242	O-Phosphate-P	1.10	Spike	P	0 - 20

Reference Method: EPA 8270D

Batch ID: P334190

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940131	Acetochlor	1.72	Spike	P	0 - 30
1940131	Alachlor	7.09	Spike	P	0 - 30
1940131	Ametryn	6.95	Spike	P	0 - 30
1940131	Atrazine	4.11	Spike	P	0 - 30
1940131	Atrazine Desethyl	7.70	Spike	P	0 - 30
1940131	Azinphos Methyl	1.85	Spike	P	0 - 30
1940131	Bromacil	14.8	Spike	P	0 - 30
1940131	Butylate	24.2	Spike	P	0 - 30
1940131	Chlorpyrifos Ethyl	4.40	Spike	P	0 - 30
1940131	Chlorpyrifos Methyl	7.51	Spike	P	0 - 30
1940131	Cyanazine	12.1	Spike	P	0 - 30
1940131	Demeton	42.8	Spike	F	0 - 30
1940131	Diazinon	1.88	Spike	P	0 - 30
1940131	Disulfoton	5.20	Spike	P	0 - 30
1940131	EPTC	9.68	Spike	P	0 - 30
1940131	Ethion	0.410	Spike	P	0 - 30
1940131	Ethoprop	4.34	Spike	P	0 - 30
1940131	Fenamiphos	21.2	Spike	P	0 - 30
1940131	Fipronil	3.17	Spike	P	0 - 30
1940131	Fipronil Sulfide	1.61	Spike	P	0 - 30
1940131	Fipronil Sulfone	2.48	Spike	P	0 - 30
1940131	Fonofos	15.3	Spike	P	0 - 30
1940131	Hexazinone	1.93	Spike	P	0 - 30
1940131	Malathion	2.07	Spike	P	0 - 30
1940131	Metalaxyl	5.58	Spike	P	0 - 30
1940131	Metolachlor	8.53	Spike	P	0 - 30
1940131	Metribuzin	3.22	Spike	P	0 - 30
1940131	Mevinphos	8.10	Spike	P	0 - 30
1940131	Molinate	8.13	Spike	P	0 - 30
1940131	Norflurazon	8.60	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P334190

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940131	Parathion Ethyl	8.22	Spike	P	0 - 30
1940131	Parathion Methyl	6.76	Spike	P	0 - 30
1940131	Pendimethalin	3.87	Spike	P	0 - 30
1940131	Phorate	14.8	Spike	P	0 - 30
1940131	Prometon	26.9	Spike	P	0 - 30
1940131	Prometryn	1.40	Spike	P	0 - 30
1940131	Simazine	3.34	Spike	P	0 - 30
1940131	Terbufos	11.9	Spike	P	0 - 30
1940131	Terbuthylazine	6.80	Spike	P	0 - 30
LFB	Acetochlor	1.19	LCS	P	0 - 30
LFB	Alachlor	1.08	LCS	P	0 - 30
LFB	Ametryn	2.62	LCS	P	0 - 30
LFB	Atrazine	4.39	LCS	P	0 - 30
LFB	Atrazine Desethyl	25.0	LCS	P	0 - 30
LFB	Azinphos Methyl	25.0	LCS	P	0 - 30
LFB	Bromacil	5.77	LCS	P	0 - 30
LFB	Butylate	18.8	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	7.76	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	1.06	LCS	P	0 - 30
LFB	Cyanazine	80.7	LCS	F	0 - 30
LFB	Demeton	6.65	LCS	P	0 - 30
LFB	Diazinon	6.19	LCS	P	0 - 30
LFB	Disulfoton	9.90	LCS	P	0 - 30
LFB	EPTC	21.3	LCS	P	0 - 30
LFB	Ethion	4.74	LCS	P	0 - 30
LFB	Ethoprop	6.33	LCS	P	0 - 30
LFB	Fenamiphos	8.02	LCS	P	0 - 30
LFB	Fipronil	13.3	LCS	P	0 - 30
LFB	Fipronil Sulfide	6.95	LCS	P	0 - 30
LFB	Fipronil Sulfone	10.2	LCS	P	0 - 30
LFB	Fonofos	7.55	LCS	P	0 - 30
LFB	Hexazinone	10.4	LCS	P	0 - 30
LFB	Malathion	9.31	LCS	P	0 - 30
LFB	Metalaxyl	6.16	LCS	P	0 - 30
LFB	Metolachlor	2.01	LCS	P	0 - 30
LFB	Metribuzin	39.4	LCS	F	0 - 30
LFB	Mevinphos	12.7	LCS	P	0 - 30
LFB	Molinate	12.9	LCS	P	0 - 30
LFB	Norflurazon	5.91	LCS	P	0 - 30
LFB	Parathion Ethyl	3.78	LCS	P	0 - 30
LFB	Parathion Methyl	14.6	LCS	P	0 - 30
LFB	Pendimethalin	10.7	LCS	P	0 - 30
LFB	Phorate	2.29	LCS	P	0 - 30
LFB	Prometon	6.74	LCS	P	0 - 30
LFB	Prometryn	5.63	LCS	P	0 - 30
LFB	Simazine	13.1	LCS	P	0 - 30
LFB	Terbufos	6.96	LCS	P	0 - 30
LFB	Terbuthylazine	1.72	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P334412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940366	Aldrin	1.56	Spike	P	0 - 30
1940366	Alpha-BHC	2.33	Spike	P	0 - 30
1940366	Alpha-Chlordane	0.586	Spike	P	0 - 30
1940366	Beta-BHC	25.1	Spike	P	0 - 30
1940366	Carbophenothion	3.82	Spike	P	0 - 30
1940366	Chlorothalonil	1.45	Spike	P	0 - 30
1940366	Cypermethrin	28.6	Spike	P	0 - 30
1940366	DDD-p,p'	11.2	Spike	P	0 - 30
1940366	DDE-p,p'	0.115	Spike	P	0 - 30
1940366	DDT-p,p'	5.03	Spike	P	0 - 30
1940366	Delta-BHC	19.1	Spike	P	0 - 30
1940366	Dicofol	1.49	Spike	P	0 - 30
1940366	Dieldrin	3.98	Spike	P	0 - 30
1940366	Endosulfan I	4.94	Spike	P	0 - 30
1940366	Endosulfan II	0.137	Spike	P	0 - 30
1940366	Endosulfan Sulfate	1.82	Spike	P	0 - 30
1940366	Endrin	4.49	Spike	P	0 - 30
1940366	Endrin Aldehyde	10.8	Spike	P	0 - 30
1940366	Endrin Ketone	0.661	Spike	P	0 - 30
1940366	Gamma-BHC	5.51	Spike	P	0 - 30
1940366	Gamma-Chlordane	0.782	Spike	P	0 - 30
1940366	Heptachlor	5.03	Spike	P	0 - 30
1940366	Heptachlor Epoxide	3.82	Spike	P	0 - 30
1940366	Methoxychlor	2.75	Spike	P	0 - 30
1940366	Mirex	6.30	Spike	P	0 - 30
1940366	Permethrin	25.0	Spike	P	0 - 30
1940366	Trifluralin	1.73	Spike	P	0 - 30
LFB	Aldrin	4.78	LCS	P	0 - 30
LFB	Alpha-BHC	21.9	LCS	P	0 - 30
LFB	Alpha-Chlordane	2.49	LCS	P	0 - 30
LFB	Beta-BHC	5.47	LCS	P	0 - 30
LFB	Carbophenothion	4.04	LCS	P	0 - 30
LFB	Chlorothalonil	28.3	LCS	P	0 - 30
LFB	Cypermethrin	5.50	LCS	P	0 - 30
LFB	DDD-p,p'	0.316	LCS	P	0 - 30
LFB	DDE-p,p'	1.80	LCS	P	0 - 30
LFB	DDT-p,p'	3.51	LCS	P	0 - 30
LFB	Delta-BHC	20.8	LCS	P	0 - 30
LFB	Dicofol	25.4	LCS	P	0 - 30
LFB	Dieldrin	2.26	LCS	P	0 - 30
LFB	Endosulfan I	1.80	LCS	P	0 - 30
LFB	Endosulfan II	0.221	LCS	P	0 - 30
LFB	Endosulfan Sulfate	2.06	LCS	P	0 - 30
LFB	Endrin	2.95	LCS	P	0 - 30
LFB	Endrin Aldehyde	1.21	LCS	P	0 - 30
LFB	Endrin Ketone	0.292	LCS	P	0 - 30
LFB	Gamma-BHC	1.97	LCS	P	0 - 30
LFB	Gamma-Chlordane	3.08	LCS	P	0 - 30
LFB	Heptachlor	3.60	LCS	P	0 - 30
LFB	Heptachlor Epoxide	0.758	LCS	P	0 - 30
LFB	Methoxychlor	5.41	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P334412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Mirex	0.0933	LCS	P	0 - 30
LFB	Permethrin	6.36	LCS	P	0 - 30
LFB	Trifluralin	4.09	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P334412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940324	Chlordane	0.619	Spike	P	0 - 30
1940324	Toxaphene	3.24	Spike	P	0 - 30
LFB	Chlordane	3.91	LCS	P	0 - 30
LFB	Toxaphene	2.04	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P334110

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940315	Glyphosate	2.74	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P334111

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1939436	Pyraclostrobin	6.50	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P334230

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940129	Sucralose	1.07	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P334153

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940273	Color (true)	1.06	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P334155

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940198	Color (true)	2.90	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-97
Batch ID: P334234

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940120	Total Alkalinity	0.152	Sample	P	0 - 4.8

Reference Method: SM 2320 B-97
Batch ID: P334340

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940444	Total Alkalinity	0.104	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P334420

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940295	TDS	2.45	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P334421

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940298	TDS	3.96	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P334341

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940444	Fluoride	0.0	Spike	P	0 - 3.0

Reference Method: SM 4500 F-C-97
Batch ID: P334461

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940120	Fluoride	1.45	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P334706

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940203	Organic Carbon	2.12	Spike	P	0 - 20

Reference Method: USGS O-2060-01
Batch ID: P334217

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940229	Acetaminophen	6.23	Spike	P	0 - 30
1940229	Carbamazepine	13.1	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: USGS O-2060-01
Batch ID: P334217

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940229	Diuron	16.3	Spike	P	0 - 30
1940229	Fenuron	11.6	Spike	P	0 - 30
1940229	Fluridone	4.88	Spike	P	0 - 30
1940229	Imidacloprid	14.5	Spike	P	0 - 30
1940229	Linuron	8.92	Spike	P	0 - 30
1940229	Primidone	17.6	Spike	P	0 - 30

Reference Method: USGS O-2060-01
Batch ID: P335526

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940027	2,4-D	2.07	Spike	P	0 - 30
1940027	Bentazon	0.633	Spike	P	0 - 30
1940027	MCP	7.60	Spike	P	0 - 30
1940027	Triclopyr	4.66	Spike	P	0 - 30

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

Quality Assurance Report Surrogates

Lab Sample ID: 1940315
Field Sample ID: G2SD102517-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	106	P	30 - 160
EPA 8321B	Acetaminophen-d4	106	P	30 - 160
EPA 8321B	Carbamazepine-d10	117	P	30 - 160
EPA 8321B	Carbamazepine-d10	117	P	30 - 160
EPA 8321B	Diuron-d6	72.9	P	30 - 160
EPA 8321B	Diuron-d6	100	P	30 - 160
EPA 8321B	Diuron-d6	72.9	P	30 - 160
EPA 8321B	Diuron-d6	100	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	106	P	40 - 160
EPA 8321B	Primidone-d5	110	P	30 - 160
EPA 8321B	Primidone-d5	110	P	30 - 160
EPA 8321B	Sucralose-d6	72.0	P	40 - 160
EPA 8321B	Sucralose-d6	72.0	P	40 - 160
USGS O-2060-01	2,4-D-d3	65.4	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	106	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	117	P	30 - 160
USGS O-2060-01	Diuron-d6	72.9	P	30 - 160
USGS O-2060-01	Diuron-d6	100	P	30 - 160
USGS O-2060-01	Primidone-d5	110	P	30 - 160
USGS O-2060-01	Sucralose-d6	72.0	P	40 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 1940316

Field Sample ID: G2SD102517-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	105	P	30 - 160
EPA 8321B	Acetaminophen-d4	105	P	30 - 160
EPA 8321B	Carbamazepine-d10	112	P	30 - 160
EPA 8321B	Carbamazepine-d10	112	P	30 - 160
EPA 8321B	Diuron-d6	91.2	P	30 - 160
EPA 8321B	Diuron-d6	72.3	P	30 - 160
EPA 8321B	Diuron-d6	91.2	P	30 - 160
EPA 8321B	Diuron-d6	72.3	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	107	P	40 - 160
EPA 8321B	Primidone-d5	98.3	P	30 - 160
EPA 8321B	Primidone-d5	98.3	P	30 - 160
EPA 8321B	Sucralose-d6	74.3	P	40 - 160
EPA 8321B	Sucralose-d6	74.3	P	40 - 160
USGS O-2060-01	2,4-D-d3	58.0	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	105	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	112	P	30 - 160
USGS O-2060-01	Diuron-d6	91.2	P	30 - 160
USGS O-2060-01	Diuron-d6	72.3	P	30 - 160
USGS O-2060-01	Primidone-d5	98.3	P	30 - 160
USGS O-2060-01	Sucralose-d6	74.3	P	40 - 160

Lab Sample ID: 1940317

Field Sample ID: G2SD102517-3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	115	P	30 - 160
EPA 8321B	Acetaminophen-d4	115	P	30 - 160
EPA 8321B	Carbamazepine-d10	112	P	30 - 160
EPA 8321B	Carbamazepine-d10	112	P	30 - 160
EPA 8321B	Diuron-d6	92.8	P	30 - 160
EPA 8321B	Diuron-d6	79.2	P	30 - 160
EPA 8321B	Diuron-d6	92.8	P	30 - 160
EPA 8321B	Diuron-d6	79.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	106	P	40 - 160
EPA 8321B	Primidone-d5	97.7	P	30 - 160
EPA 8321B	Primidone-d5	97.7	P	30 - 160
EPA 8321B	Sucralose-d6	82.6	P	40 - 160
EPA 8321B	Sucralose-d6	82.6	P	40 - 160
USGS O-2060-01	2,4-D-d3	65.8	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	115	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	112	P	30 - 160
USGS O-2060-01	Diuron-d6	92.8	P	30 - 160
USGS O-2060-01	Diuron-d6	79.2	P	30 - 160
USGS O-2060-01	Primidone-d5	97.7	P	30 - 160
USGS O-2060-01	Sucralose-d6	82.6	P	40 - 160

Lab Sample ID: 1940318

Field Sample ID: G2SD102517-4

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	103	P	30 - 160
EPA 8321B	Acetaminophen-d4	103	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 1940318

Field Sample ID: G2SD102517-4

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbamazepine-d10	115	P	30 - 160
EPA 8321B	Carbamazepine-d10	115	P	30 - 160
EPA 8321B	Diuron-d6	95.8	P	30 - 160
EPA 8321B	Diuron-d6	84.9	P	30 - 160
EPA 8321B	Diuron-d6	95.8	P	30 - 160
EPA 8321B	Diuron-d6	84.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	102	P	40 - 160
EPA 8321B	Primidone-d5	104	P	30 - 160
EPA 8321B	Primidone-d5	104	P	30 - 160
EPA 8321B	Sucralose-d6	79.6	P	40 - 160
EPA 8321B	Sucralose-d6	79.6	P	40 - 160
USGS O-2060-01	2,4-D-d3	56.1	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	103	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	115	P	30 - 160
USGS O-2060-01	Diuron-d6	95.8	P	30 - 160
USGS O-2060-01	Diuron-d6	84.9	P	30 - 160
USGS O-2060-01	Primidone-d5	104	P	30 - 160
USGS O-2060-01	Sucralose-d6	79.6	P	40 - 160

Lab Sample ID: 1940319

Field Sample ID: G2SD102517-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	91.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	102	P	30 - 160
EPA 8321B	Diuron-d6	68.7	P	30 - 160
EPA 8321B	Primidone-d5	93.1	P	30 - 160
EPA 8321B	Sucralose-d6	79.6	P	40 - 160
USGS O-2060-01	2,4-D-d3	62.8	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	91.7	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	102	P	30 - 160
USGS O-2060-01	Diuron-d6	68.7	P	30 - 160
USGS O-2060-01	Primidone-d5	93.1	P	30 - 160
USGS O-2060-01	Sucralose-d6	79.6	P	40 - 160

Lab Sample ID: 1940320

Field Sample ID: G2SD102517-4 GROUP C

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	112	P	30 - 160
EPA 8321B	Carbamazepine-d10	120	P	30 - 160
EPA 8321B	Diuron-d6	77.8	P	30 - 160
EPA 8321B	Primidone-d5	106	P	30 - 160
EPA 8321B	Sucralose-d6	78.2	P	40 - 160
USGS O-2060-01	2,4-D-d3	45.6	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	112	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	120	P	30 - 160
USGS O-2060-01	Diuron-d6	77.8	P	30 - 160
USGS O-2060-01	Primidone-d5	106	P	30 - 160
USGS O-2060-01	Sucralose-d6	78.2	P	40 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 1940321

Field Sample ID: G2SD102517-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	57.1	P	39 - 118
EPA 8270D	Tetrachloro-m-xylene	48.6	P	32 - 103
EPA 8276	Decachlorobiphenyl	50.8	P	31 - 100

Lab Sample ID: 1940324

Field Sample ID: G2SD102517-4

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	61.9	P	39 - 118
EPA 8270D	Tetrachloro-m-xylene	54.5	P	32 - 103
EPA 8276	Decachlorobiphenyl	50.4	P	31 - 100

Lab Sample ID: 1940325

Field Sample ID: G2SD102517-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	94.1	P	53 - 135
EPA 8270D	Simazine-d10	95.0	P	71 - 126

Lab Sample ID: 1940326

Field Sample ID: G2SD102517-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	110	P	53 - 135
EPA 8270D	Simazine-d10	98.3	P	71 - 126

Lab Sample ID: 1940327

Field Sample ID: G2SD102517-3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	113	P	53 - 135
EPA 8270D	Simazine-d10	103	P	71 - 126

Lab Sample ID: 1940328

Field Sample ID: G2SD102517-4

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	105	P	53 - 135
EPA 8270D	Simazine-d10	96.0	P	71 - 126

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A79831

Included Lab Sample IDs: 1940295, 1940296, 1940297, 1940298

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A79834

Included Lab Sample IDs: 1940303, 1940304, 1940305, 1940306

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	103	P/P	90 - 110
O-Phosphate-P	103	103	P/P	90 - 110
O-Phosphate-P	103	103	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A79841

Included Lab Sample IDs: 1940295, 1940296, 1940297, 1940298

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	101	P/P	85 - 115
Color (true)	99.2	99.3	P/P	85 - 115

Reference Method: SM 2320 B-97

Run ID: A79869

Included Lab Sample IDs: 1940295, 1940296

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.3	103	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A79873

Included Lab Sample IDs: 1940315, 1940316, 1940317, 1940318

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Glyphosate	78.2	87.2	P/P	70 - 160
Glyphosate	87.2	91.6	P/P	70 - 160

Reference Method: EPA 8321B

Run ID: A79874

Included Lab Sample IDs: 1940315, 1940316, 1940317, 1940318

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraclostrobin	77.0	78.0	P/P	60 - 150

Reference Method: SM 2320 B-97

Run ID: A79910

Included Lab Sample IDs: 1940297, 1940298

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.4	103	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A79910

Included Lab Sample IDs: 1940297, 1940298

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.1	99.0	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A79934

Included Lab Sample IDs: 1940315, 1940316, 1940317, 1940318, 1940319, 1940320

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A79937

Included Lab Sample IDs: 1940295, 1940296, 1940297, 1940298

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	108	109	P/P	90 - 110
Sulfate	105	105	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A79946

Included Lab Sample IDs: 1940299, 1940300, 1940301, 1940302

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

Reference Method: SM 4500 F-C-97

Run ID: A79949

Included Lab Sample IDs: 1940295, 1940296

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A79994

Included Lab Sample IDs: 1940299, 1940300, 1940301, 1940302

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	99.7	P/P	90 - 110
Total-P	99.7	100	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A80000

Included Lab Sample IDs: 1940329, 1940330, 1940331, 1940332

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	97.3	P/P	90 - 110
Calcium	97.3	98.3	P/P	90 - 110
Iron	100	98.1	P/P	90 - 110
Iron	98.1	97.8	P/P	90 - 110
Magnesium	97.4	97.2	P/P	90 - 110
Magnesium	99.7	97.4	P/P	90 - 110
Potassium	95.0	94.3	P/P	90 - 110
Potassium	97.1	95.0	P/P	90 - 110
Sodium	93.2	93.3	P/P	90 - 110
Sodium	97.3	93.2	P/P	90 - 110
Zinc	94.6	95.7	P/P	90 - 110
Zinc	96.5	94.6	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A80014

Included Lab Sample IDs: 1940329, 1940330, 1940331, 1940332

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	105	104	P/P	90 - 110
Cadmium	104	105	P/P	90 - 110
Chromium	101	102	P/P	90 - 110
Copper	104	102	P/P	90 - 110
Lead	99.0	101	P/P	90 - 110
Nickel	104	103	P/P	90 - 110
Silver	97.0	97.6	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A80022

Included Lab Sample IDs: 1940299, 1940300, 1940301, 1940302

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A80031

Included Lab Sample IDs: 1940299, 1940300, 1940301

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	99.0	P/P	90 - 110
Kjeldahl Nitrogen	99.0	106	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A80046

Included Lab Sample IDs: 1940302

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.4	97.0	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A80051

Included Lab Sample IDs: 1940299, 1940300, 1940301, 1940302

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

Reference Method: EPA 8276

Run ID: A80234

Included Lab Sample IDs: 1940321, 1940324

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	86.8		P	80 - 120
Toxaphene	108		P	80 - 120

Reference Method: EPA 8270D

Run ID: A80284

Included Lab Sample IDs: 1940321, 1940324

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A80284

Included Lab Sample IDs: 1940321, 1940324

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Alpha-BHC	98.5		P	80 - 120
Alpha-Chlordane	103		P	80 - 120
Beta-BHC	97.4		P	80 - 120
Carbophenothion	86.8		P	80 - 120
Chlorothalonil	90.4		P	80 - 120
Cypermethrin	94.3		P	80 - 120
DDD-p,p'	106		P	80 - 120
DDE-p,p'	106		P	80 - 120
DDT-p,p'	107		P	80 - 120
Delta-BHC	94.9		P	80 - 120
Dicofol	98.7		P	80 - 120
Dieldrin	97.6		P	80 - 120
Endosulfan I	100		P	80 - 120
Endosulfan II	114		P	80 - 120
Endosulfan Sulfate	99.2		P	80 - 120
Endrin	105		P	80 - 120
Endrin Aldehyde	102		P	80 - 120
Endrin Ketone	97.3		P	80 - 120
Gamma-BHC	94.2		P	80 - 120
Gamma-Chlordane	102		P	80 - 120
Heptachlor	100		P	80 - 120
Heptachlor Epoxide	102		P	80 - 120
Methoxychlor	108		P	80 - 120
Mirex	101		P	80 - 120
Permethrin	93.7		P	80 - 120
Trifluralin	99.7		P	80 - 120

Reference Method: USGS O-2060-01

Run ID: A80386

Included Lab Sample IDs: 1940315, 1940316, 1940317, 1940318, 1940319, 1940320

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	103	92.8	P/P	50 - 150
Bentazon	122	120	P/P	50 - 150
MCP	104	105	P/P	50 - 150
Triclopyr	101	95.7	P/P	50 - 150

Reference Method: USGS O-2060-01

Run ID: A80401

Included Lab Sample IDs: 1940315, 1940316, 1940317, 1940318, 1940319, 1940320

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetaminophen	124	126	P/P	60 - 150
Carbamazepine	132	132	P/P	60 - 150
Diuron	115	112	P/P	60 - 150
Fenuron	114	116	P/P	60 - 150
Fluridone	127	128	P/P	60 - 160
Imidacloprid	115	117	P/P	60 - 150
Linuron	128	117	P/P	60 - 150
Primidone	121	109	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A80519

Included Lab Sample IDs: 1940325, 1940326, 1940327, 1940328

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	104		P	80 - 120
Alachlor	98.2		P	80 - 120
Ametryn	100		P	80 - 120
Atrazine	93.0		P	80 - 120
Atrazine Desethyl	94.0		P	80 - 120
Azinphos Methyl	93.8		P	80 - 120
Bromacil	97.8		P	80 - 120
Butylate	99.9		P	80 - 120
Chlorpyrifos Ethyl	99.1		P	80 - 120
Chlorpyrifos Methyl	95.4		P	80 - 120
Cyanazine	102		P	80 - 120
Demeton	90.1		P	80 - 120
Diazinon	93.3		P	80 - 120
Disulfoton	94.1		P	80 - 120
EPTC	98.2		P	80 - 120
Ethion	95.7		P	80 - 120
Ethoprop	97.2		P	80 - 120
Fenamiphos	96.1		P	80 - 120
Fipronil	94.4		P	80 - 120
Fipronil Sulfide	94.0		P	80 - 120
Fipronil Sulfone	94.0		P	80 - 120
Fonofos	86.1		P	80 - 120
Hexazinone	102		P	80 - 120
Malathion	94.3		P	80 - 120
Metalaxyl	100		P	80 - 120
Metolachlor	97.8		P	80 - 120
Metribuzin	90.7		P	80 - 120
Mevinphos	90.1		P	80 - 120
Molinate	95.0		P	80 - 120
Norflurazon	101		P	80 - 120
Parathion Ethyl	92.9		P	80 - 120
Parathion Methyl	104		P	80 - 120
Pendimethalin	93.6		P	80 - 120
Phorate	89.2		P	80 - 120
Prometon	93.9		P	80 - 120
Prometryn	101		P	80 - 120
Simazine	97.5		P	80 - 120
Terbufos	86.2		P	80 - 120
Terbutylazine	94.3		P	80 - 120

Reference Method: EPA 8270D

Run ID: A80522

Included Lab Sample IDs: 1940328

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	97.5		P	80 - 120

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision	
							SMP	MS
EPA 180.1 Rev. 2.0	Turbidity						0.738	
	Turbidity						0.454	
EPA 200.7 Rev. 4.4	Calcium	104		101	99.5			1.09
	Iron	103		105	99.9			4.67
	Magnesium	106		103	106	101		4.52
	Potassium	97.5		97.1	97.8	93.1		4.49
	Sodium	102		97.9	99.2	95.5		2.33
	Zinc	101		99.3	103	96.7		4.75
EPA 200.8 Rev. 5.4	Arsenic	104		104	101	102		1.07
	Cadmium	104		106	105	106		0.906
	Chromium	98.1		98.3	101	101		0.540
	Copper	98.6		95.7	95.9	97.0		1.03
	Lead	97.1		97.2	96.0	97.4		1.30
	Nickel	101		99.7	99.9	99.9		0.0508
	Silver	97.3		98.0	97.7	99.0		1.31
EPA 300.0 Rev. 2.1	Chloride	103		104	107		0.458	
	Sulfate	103		103	106		0.255	
EPA 350.1 Rev. 2.0	Ammonia-N	105		101	103			0.713
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	108		109	105			2.01
	Kjeldahl Nitrogen	103		97.9	98.2			0.321
EPA 353.2 Rev. 2.0	NO2NO3-N	108		107	106			1.37
EPA 365.1 Rev. 2.0	Total-P	102		95.0	94.3			0.400
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101		91.0	90.0			1.10
EPA 8270D	Acetochlor	99.2	100	104	102	1.19		1.72
	Alachlor	95.1	94.1	103	96.3	1.08		7.09
	Aldrin	78.4	82.2	84.8	86.2	4.78		1.56
	Alpha-BHC	88.1	70.7	96.3	98.6	21.9		2.33
	Alpha-Chlordane	87.4	89.6	96.3	96.8	2.49		0.586
	Ametryn	102	98.9	118	110	2.62		6.95
	Atrazine	90.5	94.5			4.39		4.11
	Atrazine Desethyl	79.9	62.2	83.7	93.4	25.0		7.70
	Azinphos Methyl	160	124	157	154	25.0		1.85
	Beta-BHC	88.1	83.4	75.8	97.6	5.47		25.1
	Bromacil	91.4	86.2	108	86.8	5.77		14.8
	Butylate	62.3	75.2	33.8	43.1	18.8		24.2
	Carbophenothion	97.3	93.5	118	114	4.04		3.82
	Chlorothalonil	79.5	106	130	128	28.3		1.45
	Chlorpyrifos Ethyl	90.0	97.3	109	104	7.76		4.40
	Chlorpyrifos Methyl	112	111	113	121	1.06		7.51
	Cyanazine	281	119	307	347	80.7		12.1
	Cypermethrin	91.7	96.9	125	93.6	5.50		28.6
	DDD-p,p'	93.9	93.6	93.7	105	0.316		11.2
	DDE-p,p'	91.3	92.9	95.1	95.2	1.80		0.115
	DDT-p,p'	96.3	99.7	97.9	103	3.51		5.03
	Delta-BHC	103	83.3	102	124	20.8		19.1
	Demeton	87.8	93.8	65.4	101	6.65		42.8
	Diazinon	99.4	93.4	103	101	6.19		1.88
	Dicofol	66.7	51.7	65.1	64.2	25.4		1.49
	Dieldrin	88.6	90.6	99.7	95.8	2.26		3.98
	Disulfoton	87.7	96.9	102	107	9.90		5.20
	Endosulfan I	91.5	93.1	103	97.9	1.80		4.94
	Endosulfan II	91.8	92.0	98.9	98.7	0.221		0.137
	Endosulfan Sulfate	94.2	92.3	98.2	96.4	2.06		1.82
	Endrin	95.7	92.9	108	103	2.95		4.49

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Endrin Aldehyde	91.8	90.7	89.4	99.6	1.21	10.8
	Endrin Ketone	93.7	93.4	100	99.8	0.292	0.661
	EPTC	56.3	69.7	31.1	34.2	21.3	9.68
	Ethion	119	114	126	126	4.74	0.410
	Ethoprop	89.9	95.7	98.3	103	6.33	4.34
	Fenamiphos	105	97.1	104	128	8.02	21.2
	Fipronil	104	91.3	131	125	13.3	3.17
	Fipronil Sulfide	95.2	88.8	124	119	6.95	1.61
	Fipronil Sulfone	108	97.1	201	186	10.2	2.48
	Fonofos	85.7	92.4	85.2	99.3	7.55	15.3
	Gamma-BHC	90.1	88.3	90.6	95.8	1.97	5.51
	Gamma-Chlordane	85.9	88.6	94.1	93.4	3.08	0.782
	Heptachlor	81.7	84.7	86.7	91.2	3.60	5.03
	Heptachlor Epoxide	89.1	89.8	101	97.3	0.758	3.82
	Hexazinone	91.2	101	110	106	10.4	1.93
	Malathion	115	105	117	119	9.31	2.07
	Metalaxyl	83.3	78.3	101	90.6	6.16	5.58
	Methoxychlor	102	107	111	114	5.41	2.75
	Metolachlor	94.3	92.4	104	95.5	2.01	8.53
	Metribuzin	137	91.9	154	160	39.4	3.22
	Mevinphos	86.4	98.0	90.4	98.0	12.7	8.10
	Mirex	85.4	85.5	85.8	91.3	0.0933	6.30
	Molinate	67.4	76.7	54.2	58.8	12.9	8.13
	Norflurazon	99.5	93.8	113	103	5.91	8.60
	Parathion Ethyl	88.4	91.8	90.9	98.7	3.78	8.22
	Parathion Methyl	97.0	112	103	111	14.6	6.76
	Pendimethalin	87.3	97.2	111	115	10.7	3.87
	Permethrin	88.0	93.8	116	90.3	6.36	25.0
	Phorate	103	106	97.1	113	2.29	14.8
	Prometon	89.7	96.0	126	96.0	6.74	26.9
	Prometryn	101	95.8	110	108	5.63	1.40
	Simazine	88.7	101	104	108	13.1	3.34
	Terbufos	113	121	111	125	6.96	11.9
	Terbutylazine	94.0	95.6	105	97.9	1.72	6.80
	Trifluralin	83.5	87.0	92.4	90.9	4.09	1.73
EPA 8276	Chlordane	74.5	71.6	49.4	49.7	3.91	0.619
	Toxaphene	99.5	102	72.8	75.2	2.04	3.24
EPA 8321B	Glyphosate	87.6		101	105		2.74
	Pyraclostrobin	62.2		55.8	59.6		6.50
	Sucralose	94.9		94.0	92.6		1.07
SM 2120 B	Color (true)					1.06	
	Color (true)					2.90	
SM 2320 B-97	Total Alkalinity	102				0.152	
	Total Alkalinity	102				0.104	
SM 2540 C-97	TDS					2.45	
	TDS					3.96	
SM 4500 F-C-97	Fluoride	97.8		105	105		0.0
	Fluoride	98.7		99.4	101		1.45
SM 5310 B-00	Organic Carbon	99.5					2.12
USGS O-2060-01	2,4-D	102		85.4	83.6		2.07
	Acetaminophen	151		97.1	103		6.23
	Bentazon	91.1		87.2	86.7		0.633
	Carbamazepine	143		136	154		13.1
	Diuron	112		90.8	107		16.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
USGS O-2060-01	Fenuron	117	102	115			11.6
	Fluridone	117	104	98.0			4.88
	Imidacloprid	114	217	250			14.5
	Linuron	116	108	118			8.92
	MCP	91.5	71.8	66.5			7.60
	Primidone	110	108	129			17.6
	Triclopyr	94.8	69.0	65.9			4.66

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1940295, 1940296, 1940297, 1940298
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1940329, 1940330, 1940331, 1940332
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1940329, 1940330, 1940331, 1940332
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1940295, 1940296, 1940297, 1940298
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1940295, 1940296, 1940297, 1940298
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1940299, 1940300, 1940301, 1940302
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1940299, 1940300, 1940301, 1940302
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1940299, 1940300, 1940301, 1940302
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1940299, 1940300, 1940301, 1940302
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1940303, 1940304, 1940305, 1940306
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	1940321, 1940324
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1940325, 1940326, 1940327, 1940328
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	1940321, 1940324
EPA 8321B / E31780	Analysis of sucralose in water matrices by HPLC/MS/MS	1940315, 1940316, 1940317, 1940318, 1940319, 1940320
EPA 8321B / E31780	Glyphosate in water matrices by HPLC/MS/MS	1940315, 1940316, 1940317, 1940318
EPA 8321B / E31780	Pyraclostrobin in water matrices by HPLC/MS/MS	1940315, 1940316, 1940317, 1940318
SM 2120 B / E31780	True Color measured at 450 nm	1940295, 1940296, 1940297, 1940298
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1940295, 1940296, 1940297, 1940298
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1940295, 1940296, 1940297, 1940298
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1940295, 1940296, 1940297, 1940298
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1940295, 1940296, 1940297, 1940298
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1940299, 1940300, 1940301, 1940302
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1940315, 1940316, 1940317, 1940318, 1940319, 1940320
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1940315, 1940316, 1940317, 1940318, 1940319, 1940320

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	10/26/2017			10/26/2017 16:10	DeAsia Armster	1940295, 1940296, 1940297, 1940298
EPA 200.7 Rev. 4.4	10/26/2017	10/31/2017	Elliott D. Healy	11/02/2017	Betina Topolski	1940329, 1940330, 1940331, 1940332
EPA 200.8 Rev. 5.4	10/26/2017	10/31/2017	Elliott D. Healy	11/02/2017	Nadine Brooks	1940329, 1940330, 1940331, 1940332
EPA 300.0 Rev. 2.1	10/26/2017			11/01/2017	Julia Storbeck	1940295, 1940296, 1940297, 1940298
EPA 350.1 Rev. 2.0	10/26/2017			11/02/2017	Sofia Elnemr	1940299, 1940300, 1940301, 1940302
EPA 351.2 Rev. 2.0	10/26/2017	11/01/2017	Adrian Shelby	11/02/2017	Joseph Suarez	1940299, 1940300, 1940301
	10/26/2017	11/02/2017	Adrian Shelby	11/03/2017	Joseph Suarez	1940302
EPA 353.2 Rev. 2.0	10/26/2017			11/01/2017	Beverly Y. Sanders	1940299, 1940300, 1940301, 1940302
EPA 365.1 Rev. 2.0	10/26/2017	10/30/2017	Sima Feizi	10/31/2017	Lipi Saha	1940299, 1940300, 1940301, 1940302
EPA 365.1 Rev. 2.0 dissolved	10/26/2017			10/26/2017 14:59	Megan Treadwell	1940303
	10/26/2017			10/26/2017 15:44	Megan Treadwell	1940306
	10/26/2017			10/26/2017 15:45	Megan Treadwell	1940304
	10/26/2017			10/26/2017 15:52	Megan Treadwell	1940305
EPA 8270D	10/26/2017	10/31/2017	Fe-Val Siddell	11/03/2017	Vandana T. Nagar	1940325, 1940326, 1940327, 1940328
	10/26/2017	10/31/2017	Fe-Val Siddell	11/21/2017	Vandana T. Nagar	1940328
	10/26/2017	10/31/2017	Rasheda Ghaffari	11/09/2017	Goutam Palui	1940321, 1940324
EPA 8276	10/26/2017	10/31/2017	Rasheda Ghaffari	11/10/2017	John P. Burgos	1940321, 1940324
EPA 8321B	10/26/2017	10/27/2017	Juyoung Kim	10/27/2017	Juyoung Kim	1940315, 1940316, 1940317, 1940318
	10/26/2017	10/30/2017	Juyoung Kim	11/01/2017	Juyoung Kim	1940315, 1940316, 1940317, 1940318, 1940319, 1940320
SM 2120 B	10/26/2017			10/26/2017 16:49	Tanya Welborn	1940295
	10/26/2017			10/26/2017 16:50	Tanya Welborn	1940296
	10/26/2017			10/26/2017 16:52	Tanya Welborn	1940298
	10/26/2017			10/26/2017 17:09	Tanya Welborn	1940297
SM 2320 B-97	10/26/2017			10/28/2017	Dale L. Simmons	1940295, 1940296
	10/26/2017			10/30/2017	Dale L. Simmons	1940297, 1940298
SM 2540 C-97	10/26/2017			10/27/2017	DeAsia Armster	1940295, 1940296, 1940297, 1940298
SM 2540 D-97	10/26/2017			10/27/2017	DeAsia Armster	1940295, 1940296, 1940297, 1940298
SM 4500 F-C-97	10/26/2017			10/30/2017	Dale L. Simmons	1940297, 1940298
	10/26/2017			10/31/2017	Dale L. Simmons	1940295, 1940296
SM 5310 B-00	10/26/2017			11/04/2017	Ping Hua	1940299, 1940300, 1940301, 1940302
USGS O-2060-01	10/26/2017	10/31/2017	Hoor Shaik	11/03/2017	Julie Michelle Frank	1940315, 1940316, 1940317, 1940318, 1940319, 1940320
	10/26/2017	11/16/2017	Hoor Shaik	11/20/2017	Julie Michelle Frank	1940315, 1940316, 1940317, 1940318, 1940319, 1940320