

Chemical Analysis Report

SO-DIST-2017-06-20-02

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

Event Description: **SMP: Alligator Alligator Woodmere & Gottfreid**
Request ID: **RQ-2017-05-22-05**
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
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Certified by: Colin Wright, Program Administrator

Date Certified: 13-JUL-2017 11:30

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light gray rectangular background.

Case Narrative

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

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

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

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

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

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

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

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

Precision is reported as relative percent difference unless otherwise noted.

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

QC Codes used in this report may include:

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

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

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

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

Sample Location: ALLIGATOR CREEK @ SMALL STREAM INFLOW

Collection Date/Time: 06/19/2017 10:55

Field ID: G2SD061917-1

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1907472	EPA 180.1 Rev. 2.0	Turbidity	1.9		NTU	P327195	
	EPA 300.0 Rev. 2.1	Chloride	33		mg Cl/L	P327406	
		Sulfate	62		mg SO4/L	P327409	
	SM 2120 B	Color (true)	85		PCU	P327146	
	SM 2320 B-97	Total Alkalinity	81		mg CaCO3/L	P327452	
	SM 2540 C-97	TDS	298		mg/L	P327490	
	SM 2540 D-97	TSS	3	I	mg/L	P327528	
	SM 4500 F-C-97	Fluoride	0.094	I	mg F/L	P327456	
1907474	EPA 350.1 Rev. 2.0	Ammonia-N	0.029		mg N/L	P327288	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.88		mg N/L	P327190	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.022		mg N/L	P327302	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P327314	
	SM 5310 B-00	Organic Carbon	13		mg C/L	P327457	
1907476	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.058		mg P/L	P327173	
1907500	EPA 200.7 Rev. 4.4	Calcium	54.0		mg/L	P327270	
		Iron	290		ug/L	P327270	
		Magnesium	9.77		mg/L	P327270	
		Potassium	2.2		mg/L	P327270	
		Sodium	21.8		mg/L	P327270	
		Zinc	5.0	U	ug/L	P327270	
	EPA 200.8 Rev. 5.4	Arsenic	1.04		ug/L	P327270	
		Cadmium	0.020	U	ug/L	P327270	
		Chromium	0.52	I	ug/L	P327270	
		Copper	0.74	I	ug/L	P327270	
		Lead	0.099	I	ug/L	P327270	
		Nickel	0.31	I	ug/L	P327270	
		Silver	0.010	U	ug/L	P327270	

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: FIELD BLANK

Collection Date/Time: 06/19/2017 11:00

Field ID: G2SD062017-6

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1907473	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P327195	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P327406	
		Sulfate	0.20	U	mg SO4/L	P327409	
	SM 2120 B	Color (true)	2.5	U	PCU	P327146	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P327452	
	SM 2540 C-97	TDS	15	U	mg/L	P327487	
	SM 2540 D-97	TSS	2	U	mg/L	P327525	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P327456	
1907475	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P327287	

Field ID: G2SD062017-6

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1907475	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P327190	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P327302	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P327314	
	SM 5310 B-00	Organic Carbon	0.50	U	mg C/L	P327458	
1907477	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P327173	
1907501	EPA 200.7 Rev. 4.4	Calcium	0.075	U	mg/L	P327270	
		Iron	30	U	ug/L	P327270	
		Magnesium	0.040	U	mg/L	P327270	
		Potassium	0.30	U	mg/L	P327270	
		Sodium	0.50	U	mg/L	P327270	
		Zinc	5.0	U	ug/L	P327270	
	EPA 200.8 Rev. 5.4	Arsenic	0.050	U	ug/L	P327270	
		Cadmium	0.020	U	ug/L	P327270	
		Chromium	0.40	U	ug/L	P327270	
		Copper	0.20	U	ug/L	P327270	
		Lead	0.050	U	ug/L	P327270	
		Nickel	0.20	U	ug/L	P327270	
		Silver	0.010	U	ug/L	P327270	

Sample Location: ALLIGATOR CREEK @ SMALL STREAM INFLOW

Collection Date/Time: 06/19/2017 10:55

Field ID: G2SD061917-1

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1907486	EPA 8321B	Glyphosate**	10	U	ug/L	P327305	
		Pyraclostrobin**	0.0020	U	ug/L	P327348	
		Sucralose**	0.089		ug/L	P327142	
	USGS O-2060-01	2,4-D	0.016		ug/L	P327141	
		Diuron	0.0062		ug/L	P327141	
		Fenuron	0.0080	U	ug/L	P327141	MS
		Imidacloprid	0.048		ug/L	P327141	
		Bentazon	0.0023	I	ug/L	P327141	MS
		Linuron	0.0040	U	ug/L	P327141	
		Acetaminophen**	0.0080	U	ug/L	P327141	
		MCPD	0.0020	U	ug/L	P327141	
		Carbamazepine**	4.0E-04	U	ug/L	P327141	
		Triclopyr**	0.0040	U	ug/L	P327141	
		Primidone**	0.0040	U	ug/L	P327141	
		Fluridone**	0.0027		ug/L	P327141	
1907495	EPA 8270D	Aldrin	4.3	U	ng/L	P327292	
		Alpha-BHC	2.2	U	ng/L	P327292	
		Beta-BHC	4.3	U	ng/L	P327292	
		Delta-BHC	4.3	U	ng/L	P327292	
		Gamma-BHC	4.3	U	ng/L	P327292	
		Carbophenothion	4.3	UJ	ng/L	P327292	LCS, RPD

Field ID: G2SD061917-1

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1907495	EPA 8270D	Chlorothalonil	2.2	U	ng/L	P327292	
		Cypermethrin	22	U	ng/L	P327292	
		DDD-p,p'	2.2	U	ng/L	P327292	
		DDE-p,p'	3.2	U	ng/L	P327292	
		DDT-p,p'	3.2	U	ng/L	P327292	
		Dieldrin	4.3	U	ng/L	P327292	
		Endosulfan I	4.3	U	ng/L	P327292	
		Endosulfan II	4.3	U	ng/L	P327292	
		Endosulfan Sulfate	2.2	U	ng/L	P327292	
		Endrin	2.2	U	ng/L	P327292	
		Endrin Aldehyde	2.2	U	ng/L	P327292	MS
		Heptachlor	1.6	U	ng/L	P327292	
		Heptachlor Epoxide	2.2	U	ng/L	P327292	
		Methoxychlor	4.3	U	ng/L	P327292	
		Mirex	2.2	U	ng/L	P327292	
		Permethrin	11	U	ng/L	P327292	
		Trifluralin	1.1	UJ	ng/L	P327292	CCV
		Alpha-Chlordane	1.1	U	ng/L	P327292	
		Gamma-Chlordane	1.1	U	ng/L	P327292	
		Endrin Ketone	2.2	U	ng/L	P327292	
		Dicofol	32	UJ	ng/L	P327292	CCV, RPD
		Chlordane**	3.4	I	ng/L	P327292	
		Toxaphene**	14	U	ng/L	P327292	
1907497	EPA 8270D	Alachlor	0.24	U	ng/L	P327402	
		Ametryn	1.7		ng/L	P327402	
		Atrazine	17		ng/L	P327402	
		Atrazine Desethyl	4.8	I	ng/L	P327402	
		Azinphos Methyl	2.1	U	ng/L	P327402	
		Bromacil	0.48	U	ng/L	P327402	
		Butylate	0.38	U	ng/L	P327402	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P327402	
		Chlorpyrifos Methyl	0.095	U	ng/L	P327402	
		Demeton	1.9	U	ng/L	P327402	
		Diazinon	0.12	U	ng/L	P327402	
		Disulfoton	0.31	U	ng/L	P327402	
		EPTC	1.2	U	ng/L	P327402	
		Ethion	0.14	U	ng/L	P327402	
		Ethoprop	0.095	U	ng/L	P327402	
		Fenamiphos	0.24	U	ng/L	P327402	
		Fipronil	2.7		ng/L	P327402	
		Fipronil Sulfide	1.4		ng/L	P327402	
		Fipronil Sulfone	4.5		ng/L	P327402	
		Hexazinone	0.99	I	ng/L	P327402	
		Malathion	0.33	U	ng/L	P327402	
		Metribuzin	0.19	UJ	ng/L	P327402	LCS, MS

Field ID: G2SD061917-1

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1907497	EPA 8270D	Mevinphos	0.48	U	ng/L	P327402	
		Molinate	0.29	U	ng/L	P327402	
		Norflurazon	0.48	U	ng/L	P327402	
		Pendimethalin	1.4	U	ng/L	P327402	
		Phorate	0.24	U	ng/L	P327402	
		Prometon	0.86	U	ng/L	P327402	
		Prometryn	0.19	U	ng/L	P327402	
		Simazine	0.48	U	ng/L	P327402	
		Terbufos	0.095	U	ng/L	P327402	
		Terbuthylazine	0.41	U	ng/L	P327402	
		Fonofos	0.19	U	ng/L	P327402	
		Metalaxyl	1.2		ng/L	P327402	
		Metolachlor	0.25	I	ng/L	P327402	
		Acetochlor	0.24	U	ng/L	P327402	
		Cyanazine	0.48	U	ng/L	P327402	
		Parathion Ethyl	0.24	U	ng/L	P327402	
		Parathion Methyl	0.24	U	ng/L	P327402	

Ref. Method and Comment:

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

EPA 8276: Insufficient sample available to perform duplicate matrix spike.

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: FIELD BLANK

Collection Date/Time: 06/19/2017 11:00

Field ID: G2SD062017-6

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1907487	EPA 8321B	Glyphosate**	10	U	ug/L	P327305	
		Pyraclostrobin**	0.0020	U	ug/L	P327348	
		Sucralose**	0.010	U	ug/L	P327142	
	USGS O-2060-01	2,4-D	8.0E-04	U	ug/L	P327141	
		Diuron	8.0E-04	U	ug/L	P327141	
		Fenuron	0.0080	U	ug/L	P327141	MS
		Imidacloprid	8.0E-04	U	ug/L	P327141	
		Bentazon	8.0E-04	U	ug/L	P327141	MS
		Linuron	0.0040	U	ug/L	P327141	
		Acetaminophen**	0.0080	U	ug/L	P327141	
		MCP	0.0020	U	ug/L	P327141	
		Carbamazepine**	4.0E-04	U	ug/L	P327141	
		Triclopyr**	0.0040	U	ug/L	P327141	
		Primidone**	0.0040	U	ug/L	P327141	
		Fluridone**	4.0E-04	U	ug/L	P327141	
	EPA 8270D	Aldrin	4.2	U	ng/L	P327292	
		Alpha-BHC	2.1	U	ng/L	P327292	
		Beta-BHC	4.2	U	ng/L	P327292	
		Delta-BHC	4.2	U	ng/L	P327292	
		Gamma-BHC	4.2	U	ng/L	P327292	

Field ID: G2SD062017-6

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1907496	EPA 8270D	Carbophenothion	4.2	UJ	ng/L	P327292	LCS, RPD
		Chlorothalonil	2.1	U	ng/L	P327292	
		Cypermethrin	21	U	ng/L	P327292	
		DDD-p,p'	2.1	U	ng/L	P327292	
		DDE-p,p'	3.1	U	ng/L	P327292	
		DDT-p,p'	3.1	U	ng/L	P327292	
		Dieldrin	4.2	U	ng/L	P327292	
		Endosulfan I	4.2	U	ng/L	P327292	
		Endosulfan II	4.2	U	ng/L	P327292	
		Endosulfan Sulfate	2.1	U	ng/L	P327292	
		Endrin	2.1	U	ng/L	P327292	
		Endrin Aldehyde	2.1	U	ng/L	P327292	MS
		Heptachlor	1.6	U	ng/L	P327292	
		Heptachlor Epoxide	2.1	U	ng/L	P327292	
		Methoxychlor	4.2	U	ng/L	P327292	
		Mirex	2.1	U	ng/L	P327292	
		Permethrin	10	U	ng/L	P327292	
		Trifluralin	1.0	UJ	ng/L	P327292	CCV
		Alpha-Chlordane	1.0	U	ng/L	P327292	
		Gamma-Chlordane	1.0	U	ng/L	P327292	
		Endrin Ketone	2.1	U	ng/L	P327292	
		Dicofol	31	UJ	ng/L	P327292	CCV, RPD
	EPA 8276	Chlordane**	2.6	U	ng/L	P327292	
		Toxaphene**	13	U	ng/L	P327292	
1907498	EPA 8270D	Alachlor	0.25	U	ng/L	P327402	
		Ametryn	0.32	U	ng/L	P327402	
		Atrazine	0.25	U	ng/L	P327402	
		Atrazine Desethyl	1.5	U	ng/L	P327402	
		Azinphos Methyl	2.2	U	ng/L	P327402	
		Bromacil	0.50	U	ng/L	P327402	
		Butylate	0.40	U	ng/L	P327402	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P327402	
		Chlorpyrifos Methyl	0.099	U	ng/L	P327402	
		Demeton	2.0	U	ng/L	P327402	
		Diazinon	0.12	U	ng/L	P327402	
		Disulfoton	0.32	U	ng/L	P327402	
		EPTC	1.2	U	ng/L	P327402	
		Ethion	0.15	U	ng/L	P327402	
		Ethoprop	0.099	U	ng/L	P327402	
		Fenamiphos	0.25	U	ng/L	P327402	
		Fipronil	0.25	U	ng/L	P327402	
		Fipronil Sulfide	0.15	U	ng/L	P327402	
		Fipronil Sulfone	0.15	U	ng/L	P327402	
		Hexazinone	0.50	U	ng/L	P327402	
		Malathion	0.35	U	ng/L	P327402	

Field ID: G2SD062017-6

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1907498	EPA 8270D	Metribuzin	0.20	UJ	ng/L	P327402	LCS, MS
		Mevinphos	0.50	U	ng/L	P327402	
		Molinate	0.30	U	ng/L	P327402	
		Norflurazon	0.50	U	ng/L	P327402	
		Pendimethalin	1.5	U	ng/L	P327402	
		Phorate	0.25	U	ng/L	P327402	
		Prometon	0.89	U	ng/L	P327402	
		Prometryn	0.20	U	ng/L	P327402	
		Simazine	0.50	U	ng/L	P327402	
		Terbufos	0.099	U	ng/L	P327402	
		Terbuthylazine	0.42	U	ng/L	P327402	
		Fonofos	0.20	U	ng/L	P327402	
		Metalaxyl	0.20	U	ng/L	P327402	
		Metolachlor	0.25	U	ng/L	P327402	
		Acetochlor	0.25	U	ng/L	P327402	
		Cyanazine	0.50	U	ng/L	P327402	
		Parathion Ethyl	0.25	U	ng/L	P327402	
		Parathion Methyl	0.25	U	ng/L	P327402	

Ref. Method and Comment:

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

EPA 8276: Insufficient sample available to perform duplicate matrix spike.

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: WBID 2030A ALLIGATOR CREEK @
UPSTREAM OF JACARANDA**

Collection Date/Time: 06/19/2017 11:50

Field ID: G2SD061917-3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1907488	EPA 8321B	Sucralose**	0.69		ug/L	P327142	
	USGS O-2060-01	2,4-D	0.033		ug/L	P327141	
		Diuron	0.0038		ug/L	P327141	
		Fenuron	0.0088	I	ug/L	P327141	MS
		Imidacloprid	0.050		ug/L	P327141	
		Bentazon	0.0045		ug/L	P327141	MS
		Linuron	0.0040	U	ug/L	P327141	
		Acetaminophen**	0.0080	U	ug/L	P327141	
		MCP	0.0020	U	ug/L	P327141	
		Carbamazepine**	0.0016		ug/L	P327141	
		Triclopyr**	0.0040	U	ug/L	P327141	
		Primidone**	0.0080	I	ug/L	P327141	
		Fluridone**	0.0097		ug/L	P327141	

**Sample Location: WBID 2042 WOODMERE CANAL AT HERON
ROAD**

Collection Date/Time: 06/19/2017 12:10

Field ID: G2SD061917-4

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Field ID: G2SD061917-4

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1907489	EPA 8321B	Sucralose**	0.50		ug/L	P327142	
	USGS O-2060-01	2,4-D	0.012		ug/L	P327141	
		Diuron	0.013		ug/L	P327141	
		Fenuron	0.0080	U	ug/L	P327141	MS
		Imidacloprid	0.048		ug/L	P327141	
		Bentazon	0.0030	I	ug/L	P327141	MS
		Linuron	0.0040	U	ug/L	P327141	
		Acetaminophen**	0.0080	U	ug/L	P327141	
		MCP	0.0029	I	ug/L	P327141	
		Carbamazepine**	0.0054		ug/L	P327141	
		Triclopyr**	0.0040	U	ug/L	P327141	
		Primidone**	0.0040	U	ug/L	P327141	
		Fluridone**	4.8E-04	I	ug/L	P327141	

Sample Location: WBID 2049 GOTTRIED CREEK @ DEER CREEK Collection Date/Time: 06/19/2017 12:30
MOBILE HOME PARK

Field ID: G2SD061917-5

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1907490	EPA 8321B	Sucralose**	0.29		ug/L	P327142	
	USGS O-2060-01	2,4-D	0.038		ug/L	P327141	
		Diuron	0.0031	I	ug/L	P327141	
		Fenuron	0.0080	U	ug/L	P327141	MS
		Imidacloprid	0.020		ug/L	P327141	
		Bentazon	0.0026	I	ug/L	P327141	MS
		Linuron	0.0040	U	ug/L	P327141	
		Acetaminophen**	0.0080	U	ug/L	P327141	
		MCP	0.0020	U	ug/L	P327141	
		Carbamazepine**	0.0012	I	ug/L	P327141	
		Triclopyr**	0.0040	U	ug/L	P327141	
		Primidone**	0.0040	U	ug/L	P327141	
		Fluridone**	0.0046		ug/L	P327141	

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P327195

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P327270

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P327270

Component	Result	Code	Units
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: P327270

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: P327406

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P327409

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P327287

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P327288

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P327190

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P327302

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P327314

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P327173

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

Reference Method: EPA 8270D
Batch ID: P327292

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 8270D
Batch ID: P327402

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D

Batch ID: P327402

Component	Result	Code	Units
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
Metalaxyl	0.20	U	ng/L
Metolachlor	0.25	U	ng/L
Metribuzin	0.20	U	ng/L
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Norflurazon	0.50	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.25	U	ng/L
Pendimethalin	1.5	U	ng/L
Phorate	0.25	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Simazine	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L

Reference Method: EPA 8276

Batch ID: P327292

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

Reference Method: EPA 8321B

Batch ID: P327142

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B

Batch ID: P327305

Component	Result	Code	Units
Glyphosate	10	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P327348

Component	Result	Code	Units
Pyraclostrobin	0.0020	U	ug/L

Reference Method: SM 2120 B
Batch ID: P327146

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P327452

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

Reference Method: SM 2540 C-97
Batch ID: P327487

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P327490

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P327525

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P327528

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P327456

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P327457

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

Quality Assurance Report Method Blank Results

Reference Method: SM 5310 B-00
Batch ID: P327458

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

Reference Method: USGS O-2060-01
Batch ID: P327141

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	0.0080	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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P327270

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	105		P	85 - 115
Iron	106		P	85 - 115
Magnesium	103		P	85 - 115
Potassium	98.5		P	85 - 115
Sodium	103		P	85 - 115
Zinc	98.9		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P327270

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	102		P	85 - 115
Cadmium	101		P	85 - 115
Chromium	101		P	85 - 115
Copper	97.4		P	85 - 115
Lead	99.5		P	85 - 115
Nickel	99.2		P	85 - 115
Silver	100		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P327406

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P327409

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P327287

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P327288

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P327190

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P327302

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P327314

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P327173

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

Reference Method: EPA 8270D
Batch ID: P327292

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	56.3	60.0	P/P	26 - 88.0
Alpha-BHC	76.8	82.8	P/P	63 - 114
Alpha-Chlordane	73.3	76.0	P/P	56 - 117
Beta-BHC	83.7	84.2	P/P	57 - 138
Carbophenothion	32.0	20.9	F/F	36 - 148
Chlorothalonil	100	103	P/P	26 - 173
Cypermethrin	104	95.5	P/P	42 - 159
DDD-p,p'	81.9	86.0	P/P	62 - 126
DDE-p,p'	75.3	79.1	P/P	53 - 115
DDT-p,p'	87.0	92.1	P/P	54 - 117

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P327292

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Delta-BHC	82.1	79.3	P/P	68 - 158
Dicofol	60.7	78.9	P/P	25 - 114
Dieldrin	79.2	80.5	P/P	59 - 126
Endosulfan I	78.6	79.1	P/P	62 - 138
Endosulfan II	74.0	74.2	P/P	61 - 150
Endosulfan Sulfate	74.7	77.2	P/P	63 - 132
Endrin	80.0	84.6	P/P	49 - 148
Endrin Aldehyde	102	107	P/P	50 - 144
Endrin Ketone	91.5	96.7	P/P	66 - 122
Gamma-BHC	81.1	84.5	P/P	60 - 137
Gamma-Chlordane	70.6	75.6	P/P	54 - 113
Heptachlor	68.2	73.9	P/P	43 - 104
Heptachlor Epoxide	75.5	79.0	P/P	64 - 118
Methoxychlor	89.1	101	P/P	63 - 129
Mirex	67.6	69.8	P/P	39 - 93.0
Permethrin	86.2	90.3	P/P	51 - 123
Trifluralin	105	109	P/P	35 - 187

Reference Method: EPA 8270D
Batch ID: P327402

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	85.8	84.4	P/P	78 - 118
Alachlor	83.9	84.1	P/P	77 - 119
Ametryn	89.4	97.1	P/P	61 - 136
Atrazine	92.4	94.2	P/P	73 - 120
Atrazine Desethyl	89.2	96.5	P/P	16 - 122
Azinphos Methyl	96.0	97.0	P/P	69 - 186
Bromacil	63.8	64.3	P/P	40 - 125
Butylate	51.2	47.2	P/P	32 - 87.0
Chlorpyrifos Ethyl	78.0	84.0	P/P	53 - 110
Chlorpyrifos Methyl	88.2	89.3	P/P	31 - 119
Cyanazine	149	150	P/P	36 - 224
Demeton	85.7	89.4	P/P	39 - 122
Diazinon	90.0	89.3	P/P	75 - 119
Disulfoton	94.4	96.3	P/P	42 - 139
EPTC	48.1	45.2	P/P	33 - 96.0
Ethion	85.1	73.9	P/P	63 - 127
Ethoprop	80.3	78.9	P/P	65 - 107
Fenamiphos	95.9	96.9	P/P	64 - 137
Fipronil	88.3	88.7	P/P	60 - 126
Fipronil Sulfide	88.8	90.8	P/P	58 - 124
Fipronil Sulfone	80.4	81.6	P/P	57 - 126
Fonofos	84.7	86.5	P/P	65 - 111
Hexazinone	80.0	79.8	P/P	46 - 151
Malathion	89.1	89.3	P/P	68 - 132
Metalaxyl	91.8	90.4	P/P	51 - 132
Metolachlor	84.4	84.4	P/P	78 - 119
Metribuzin	129	157	P/F	64 - 138
Mevinphos	79.8	79.8	P/P	34 - 128
Molinate	48.6	44.1	P/P	44 - 101
Norflurazon	88.0	84.8	P/P	63 - 129

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P327402

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Parathion Ethyl	87.7	88.5	P/P	80 - 109
Parathion Methyl	94.6	94.1	P/P	74 - 125
Pendimethalin	89.8	88.9	P/P	48 - 134
Phorate	82.7	80.6	P/P	52 - 119
Prometon	79.5	79.3	P/P	69 - 124
Prometryn	88.8	89.8	P/P	66 - 124
Simazine	98.3	94.9	P/P	61 - 134
Terbufos	92.0	93.1	P/P	58 - 115
Terbutylazine	85.8	86.4	P/P	77 - 113

Reference Method: EPA 8276
Batch ID: P327292

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	73.2	88.7	P/P	48 - 121
Toxaphene	90.6	119	P/P	43 - 135

Reference Method: EPA 8321B
Batch ID: P327142

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	82.5		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P327305

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Glyphosate	114	115	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P327348

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pyraclostrobin	52.8	52.9	P/P	40 - 150

Reference Method: SM 2320 B-97
Batch ID: P327452

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

Reference Method: SM 4500 F-C-97
Batch ID: P327456

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

Reference Method: SM 5310 B-00
Batch ID: P327457

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.8		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-00
Batch ID: P327458

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	93.8		P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P327141

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	81.4		P	40 - 150
Acetaminophen	46.6		P	40 - 150
Bentazon	56.8		P	40 - 150
Carbamazepine	116		P	40 - 150
Diuron	117		P	40 - 150
Fenuron	108		P	40 - 150
Fluridone	99.8		P	40 - 150
Imidacloprid	90.8		P	40 - 160
Linuron	109		P	40 - 150
MCP	86.0		P	40 - 150
Primidone	99.4		P	40 - 150
Triclopyr	95.0		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P327270

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1907395	Calcium	110		P	80 - 120
1907395	Iron	108		P	80 - 120
1907395	Magnesium	109		P	80 - 120
1907395	Potassium	108		P	80 - 120
1907395	Sodium	107		P	80 - 120
1907395	Zinc	102		P	80 - 120
1907500	Calcium	105		P	80 - 120
1907500	Iron	107	106	P/P	80 - 120
1907500	Magnesium	105		P	80 - 120
1907500	Potassium	99.1	99.0	P/P	80 - 120
1907500	Sodium	103		P	80 - 120
1907500	Zinc	99.9	97.9	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P327270

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1907395	Arsenic	106		P	80 - 120
1907395	Cadmium	105		P	80 - 120
1907395	Chromium	95.6		P	80 - 120
1907395	Copper	96.2		P	80 - 120
1907395	Lead	102		P	80 - 120
1907395	Nickel	97.9		P	80 - 120
1907395	Silver	100		P	80 - 120
1907500	Arsenic	104	107	P/P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P327270

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1907500	Cadmium	102	104	P/P	80 - 120
1907500	Chromium	94.3	97.7	P/P	80 - 120
1907500	Copper	95.4	98.7	P/P	80 - 120
1907500	Lead	101	104	P/P	80 - 120
1907500	Nickel	95.6	98.7	P/P	80 - 120
1907500	Silver	100	102	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P327406

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1907606	Chloride	93.4		P	90 - 110
1907786	Chloride	99.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P327409

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1907606	Sulfate	91.3		P	90 - 110
1907786	Sulfate	98.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P327287

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1907308	Ammonia-N	102	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P327288

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1907380	Ammonia-N	101	98.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P327190

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1907461	Kjeldahl Nitrogen	89.4	99.3	F/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P327302

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1907474	NO2NO3-N	103	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P327314

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1907461	Total-P	96.8	98.0	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P327173

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1907383	O-Phosphate-P	95.7	95.7	P/P	90 - 110

Reference Method: EPA 8270D
 Batch ID: P327292

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1907345	Aldrin	71.0	69.6	P/P	22 - 97.0
1907345	Alpha-BHC	76.3	72.2	P/P	43 - 132
1907345	Alpha-Chlordane	81.2	81.9	P/P	36 - 126
1907345	Beta-BHC	79.3	96.4	P/P	41 - 150
1907345	Carbophenothion	130	134	P/P	13 - 196
1907345	Chlorothalonil	115	108	P/P	10 - 266
1907345	Cypermethrin	123	133	P/P	37 - 161
1907345	DDD-p,p'	87.3	90.1	P/P	44 - 131
1907345	DDE-p,p'	87.0	83.1	P/P	32 - 127
1907345	DDT-p,p'	101	99.7	P/P	45 - 116
1907345	Delta-BHC	82.1	94.9	P/P	50 - 201
1907345	Dicofol	37.4	61.6	P/P	10 - 100
1907345	Dieldrin	80.8	83.8	P/P	39 - 142
1907345	Endosulfan I	92.3	89.6	P/P	51 - 139
1907345	Endosulfan II	77.9	85.0	P/P	49 - 155
1907345	Endosulfan Sulfate	79.2	99.7	P/P	54 - 136
1907345	Endrin	84.5	84.2	P/P	38 - 141
1907345	Endrin Aldehyde	465	459	F/F	14 - 152
1907345	Endrin Ketone	110	110	P/P	60 - 128
1907345	Gamma-BHC	85.0	85.2	P/P	48 - 157
1907345	Gamma-Chlordane	78.1	81.8	P/P	35 - 123
1907345	Heptachlor	72.0	71.6	P/P	25 - 112
1907345	Heptachlor Epoxide	83.2	82.8	P/P	48 - 125
1907345	Methoxychlor	94.9	92.2	P/P	52 - 127
1907345	Mirex	80.3	81.0	P/P	25 - 108
1907345	Permethrin	114	117	P/P	46 - 133
1907345	Trifluralin	242	239	P/P	29 - 254

Reference Method: EPA 8270D
 Batch ID: P327402

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1907346	Acetochlor	85.6	85.9	P/P	74 - 123
1907346	Alachlor	82.1	82.8	P/P	73 - 124
1907346	Ametryn	87.0	86.9	P/P	56 - 149
1907346	Atrazine Desethyl	75.2	76.9	P/P	12 - 103
1907346	Azinphos Methyl	89.2	93.3	P/P	60 - 202
1907346	Bromacil	92.9	93.1	P/P	42 - 133
1907346	Butylate	40.2	39.9	P/P	10 - 85.0
1907346	Chlorpyrifos Ethyl	80.3	80.6	P/P	53 - 113
1907346	Chlorpyrifos Methyl	85.6	86.1	P/P	40 - 115
1907346	Cyanazine	138	135	P/P	22 - 210
1907346	Demeton	79.4	81.5	P/P	17 - 149
1907346	Diazinon	92.9	92.9	P/P	72 - 124
1907346	Disulfoton	90.1	93.7	P/P	43 - 139
1907346	EPTC	41.7	48.1	P/P	10 - 86.0

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P327402

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1907346	Ethion	92.3	92.9	P/P	65 - 131
1907346	Ethoprop	77.0	81.8	P/P	59 - 110
1907346	Fenamiphos	91.6	91.7	P/P	57 - 138
1907346	Fipronil	100	99.5	P/P	40 - 130
1907346	Fipronil Sulfide	93.4	94.6	P/P	36 - 128
1907346	Fipronil Sulfone	79.2	80.3	P/P	16 - 145
1907346	Fonofos	86.6	82.8	P/P	60 - 112
1907346	Hexazinone	89.3	91.1	P/P	69 - 142
1907346	Malathion	90.9	88.9	P/P	68 - 132
1907346	Metalaxyl	91.4	89.7	P/P	66 - 118
1907346	Metolachlor	81.7	81.0	P/P	71 - 124
1907346	Metribuzin	129	142	P/F	61 - 140
1907346	Mevinphos	71.2	74.9	P/P	38 - 130
1907346	Molinate	44.9	51.0	P/P	23 - 99.0
1907346	Norflurazon	88.1	86.5	P/P	39 - 139
1907346	Parathion Ethyl	91.9	91.4	P/P	75 - 111
1907346	Parathion Methyl	93.1	93.7	P/P	64 - 130
1907346	Pendimethalin	99.7	102	P/P	26 - 173
1907346	Phorate	76.3	88.4	P/P	43 - 127
1907346	Prometon	81.1	87.3	P/P	50 - 144
1907346	Prometryn	91.3	87.8	P/P	69 - 126
1907346	Simazine	86.2	71.1	P/P	51 - 152
1907346	Terbufos	88.8	91.9	P/P	54 - 125
1907346	Terbutylazine	87.1	85.5	P/P	76 - 113

Reference Method: EPA 8276
Batch ID: P327292

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1907292	Chlordane	82.5		P	44 - 134
1907292	Toxaphene	109		P	36 - 147

Reference Method: EPA 8321B
Batch ID: P327142

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1907192	Sucralose	70.5	55.0	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P327305

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1907280	Glyphosate	128	132	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P327348

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1907280	Pyraclostrobin	49.0	50.4	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P327456

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1907606	Fluoride	98.9	101	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P327457

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1907162	Organic Carbon	93.1	93.2	P/P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P327458

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1907492	Organic Carbon	92.2	94.1	P/P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P327141

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1907193	2,4-D	71.0	73.6	P/P	40 - 150
1907193	Acetaminophen	99.8	100	P/P	40 - 150
1907193	Bentazon	23.6	22.4	F/F	40 - 150
1907193	Carbamazepine	95.4	93.4	P/P	40 - 150
1907193	Diuron	71.8	68.6	P/P	40 - 150
1907193	Fenuron	150	123	F/P	40 - 150
1907193	Fluridone	58.2	57.2	P/P	40 - 150
1907193	Imidacloprid	156	159	P/P	40 - 160
1907193	Linuron	94.4	90.8	P/P	40 - 150
1907193	MCP	56.8	55.4	P/P	40 - 150
1907193	Primidone	85.2	91.2	P/P	40 - 150
1907193	Triclopyr	70.4	67.4	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P327195

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1907491	Turbidity	13.3	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P327270

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1907500	Calcium	0.386	Spike	P	0 - 20
1907500	Iron	0.647	Spike	P	0 - 20
1907500	Magnesium	0.195	Spike	P	0 - 20
1907500	Potassium	0.0666	Spike	P	0 - 20
1907500	Sodium	0.0908	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P327270

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1907500	Zinc	2.06	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P327270

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1907500	Arsenic	2.78	Spike	P	0 - 20
1907500	Cadmium	1.71	Spike	P	0 - 20
1907500	Chromium	3.35	Spike	P	0 - 20
1907500	Copper	3.27	Spike	P	0 - 20
1907500	Lead	2.88	Spike	P	0 - 20
1907500	Nickel	3.19	Spike	P	0 - 20
1907500	Silver	2.17	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P327406

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1907606	Chloride	1.59	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P327409

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1907606	Sulfate	2.48	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P327287

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1907308	Ammonia-N	0.433	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P327288

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1907380	Ammonia-N	1.23	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P327190

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1907461	Kjeldahl Nitrogen	9.15	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P327302

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1907474	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P327314

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1907461	Total-P	1.20	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P327173

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1907383	O-Phosphate-P	0.0	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P327292

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1907345	Aldrin	2.02	Spike	P	0 - 30
1907345	Alpha-BHC	5.55	Spike	P	0 - 30
1907345	Alpha-Chlordane	0.850	Spike	P	0 - 30
1907345	Beta-BHC	19.5	Spike	P	0 - 30
1907345	Carbophenothion	2.93	Spike	P	0 - 30
1907345	Chlorothalonil	6.01	Spike	P	0 - 30
1907345	Cypermethrin	7.64	Spike	P	0 - 30
1907345	DDD-p,p'	3.14	Spike	P	0 - 30
1907345	DDE-p,p'	4.57	Spike	P	0 - 30
1907345	DDT-p,p'	0.884	Spike	P	0 - 30
1907345	Delta-BHC	14.4	Spike	P	0 - 30
1907345	Dicofol	48.9	Spike	F	0 - 30
1907345	Dieldrin	3.63	Spike	P	0 - 30
1907345	Endosulfan I	2.92	Spike	P	0 - 30
1907345	Endosulfan II	8.78	Spike	P	0 - 30
1907345	Endosulfan Sulfate	22.9	Spike	P	0 - 30
1907345	Endrin	0.294	Spike	P	0 - 30
1907345	Endrin Aldehyde	1.39	Spike	P	0 - 30
1907345	Endrin Ketone	0.295	Spike	P	0 - 30
1907345	Gamma-BHC	0.245	Spike	P	0 - 30
1907345	Gamma-Chlordane	4.56	Spike	P	0 - 30
1907345	Heptachlor	0.561	Spike	P	0 - 30
1907345	Heptachlor Epoxide	0.472	Spike	P	0 - 30
1907345	Methoxychlor	2.91	Spike	P	0 - 30
1907345	Mirex	0.918	Spike	P	0 - 30
1907345	Permethrin	2.75	Spike	P	0 - 30
1907345	Trifluralin	1.33	Spike	P	0 - 30
LFB	Aldrin	6.38	LCS	P	0 - 30
LFB	Alpha-BHC	7.54	LCS	P	0 - 30
LFB	Alpha-Chlordane	3.66	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P327292

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Beta-BHC	0.642	LCS	P	0 - 30
LFB	Carbophenothion	41.9	LCS	F	0 - 30
LFB	Chlorothalonil	2.50	LCS	P	0 - 30
LFB	Cypermethrin	8.33	LCS	P	0 - 30
LFB	DDD-p,p'	4.89	LCS	P	0 - 30
LFB	DDE-p,p'	5.03	LCS	P	0 - 30
LFB	DDT-p,p'	5.69	LCS	P	0 - 30
LFB	Delta-BHC	3.54	LCS	P	0 - 30
LFB	Dicofol	26.2	LCS	P	0 - 30
LFB	Dieldrin	1.63	LCS	P	0 - 30
LFB	Endosulfan I	0.655	LCS	P	0 - 30
LFB	Endosulfan II	0.235	LCS	P	0 - 30
LFB	Endosulfan Sulfate	3.37	LCS	P	0 - 30
LFB	Endrin	5.63	LCS	P	0 - 30
LFB	Endrin Aldehyde	4.84	LCS	P	0 - 30
LFB	Endrin Ketone	5.55	LCS	P	0 - 30
LFB	Gamma-BHC	4.04	LCS	P	0 - 30
LFB	Gamma-Chlordane	6.75	LCS	P	0 - 30
LFB	Heptachlor	8.07	LCS	P	0 - 30
LFB	Heptachlor Epoxide	4.48	LCS	P	0 - 30
LFB	Methoxychlor	12.1	LCS	P	0 - 30
LFB	Mirex	3.25	LCS	P	0 - 30
LFB	Permethrin	4.56	LCS	P	0 - 30
LFB	Trifluralin	3.67	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P327402

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1907346	Acetochlor	0.265	Spike	P	0 - 30
1907346	Alachlor	0.853	Spike	P	0 - 30
1907346	Ametryn	0.102	Spike	P	0 - 30
1907346	Atrazine	1.06	Spike	P	0 - 30
1907346	Atrazine Desethyl	1.94	Spike	P	0 - 30
1907346	Azinphos Methyl	4.51	Spike	P	0 - 30
1907346	Bromacil	0.227	Spike	P	0 - 30
1907346	Butylate	0.754	Spike	P	0 - 30
1907346	Chlorpyrifos Ethyl	0.440	Spike	P	0 - 30
1907346	Chlorpyrifos Methyl	0.575	Spike	P	0 - 30
1907346	Cyanazine	2.22	Spike	P	0 - 30
1907346	Demeton	2.59	Spike	P	0 - 30
1907346	Diazinon	0.0552	Spike	P	0 - 30
1907346	Disulfoton	3.95	Spike	P	0 - 30
1907346	EPTC	14.4	Spike	P	0 - 30
1907346	Ethion	0.685	Spike	P	0 - 30
1907346	Ethoprop	5.98	Spike	P	0 - 30
1907346	Fenamiphos	0.120	Spike	P	0 - 30
1907346	Fipronil	0.573	Spike	P	0 - 30
1907346	Fipronil Sulfide	1.35	Spike	P	0 - 30
1907346	Fipronil Sulfone	1.25	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P327402

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1907346	Fonofos	4.42	Spike	P	0 - 30
1907346	Hexazinone	2.05	Spike	P	0 - 30
1907346	Malathion	2.24	Spike	P	0 - 30
1907346	Metalaxyl	1.82	Spike	P	0 - 30
1907346	Metolachlor	0.718	Spike	P	0 - 30
1907346	Metribuzin	8.03	Spike	P	0 - 30
1907346	Mevinphos	5.06	Spike	P	0 - 30
1907346	Molinate	12.6	Spike	P	0 - 30
1907346	Norflurazon	1.81	Spike	P	0 - 30
1907346	Parathion Ethyl	0.552	Spike	P	0 - 30
1907346	Parathion Methyl	0.698	Spike	P	0 - 30
1907346	Pendimethalin	1.99	Spike	P	0 - 30
1907346	Phorate	14.7	Spike	P	0 - 30
1907346	Prometon	7.42	Spike	P	0 - 30
1907346	Prometryn	3.88	Spike	P	0 - 30
1907346	Simazine	11.0	Spike	P	0 - 30
1907346	Terbufos	3.39	Spike	P	0 - 30
1907346	Terbutylazine	1.82	Spike	P	0 - 30
LFB	Acetochlor	1.56	LCS	P	0 - 30
LFB	Alachlor	0.260	LCS	P	0 - 30
LFB	Ametryn	8.28	LCS	P	0 - 30
LFB	Atrazine	1.95	LCS	P	0 - 30
LFB	Atrazine Desethyl	7.96	LCS	P	0 - 30
LFB	Azinphos Methyl	1.05	LCS	P	0 - 30
LFB	Bromacil	0.757	LCS	P	0 - 30
LFB	Butylate	8.30	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	7.35	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	1.28	LCS	P	0 - 30
LFB	Cyanazine	0.301	LCS	P	0 - 30
LFB	Demeton	4.24	LCS	P	0 - 30
LFB	Diazinon	0.760	LCS	P	0 - 30
LFB	Disulfoton	2.06	LCS	P	0 - 30
LFB	EPTC	6.22	LCS	P	0 - 30
LFB	Ethion	14.1	LCS	P	0 - 30
LFB	Ethoprop	1.75	LCS	P	0 - 30
LFB	Fenamiphos	1.10	LCS	P	0 - 30
LFB	Fipronil	0.462	LCS	P	0 - 30
LFB	Fipronil Sulfide	2.31	LCS	P	0 - 30
LFB	Fipronil Sulfone	1.44	LCS	P	0 - 30
LFB	Fonofos	2.15	LCS	P	0 - 30
LFB	Hexazinone	0.273	LCS	P	0 - 30
LFB	Malathion	0.233	LCS	P	0 - 30
LFB	Metalaxyl	1.62	LCS	P	0 - 30
LFB	Metolachlor	0.0553	LCS	P	0 - 30
LFB	Metribuzin	19.3	LCS	P	0 - 30
LFB	Mevinphos	0.0227	LCS	P	0 - 30
LFB	Molinate	9.81	LCS	P	0 - 30
LFB	Norflurazon	3.64	LCS	P	0 - 30
LFB	Parathion Ethyl	0.917	LCS	P	0 - 30
LFB	Parathion Methyl	0.564	LCS	P	0 - 30
LFB	Pendimethalin	0.933	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P327402

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Phorate	2.56	LCS	P	0 - 30
LFB	Prometon	0.200	LCS	P	0 - 30
LFB	Prometryn	1.14	LCS	P	0 - 30
LFB	Simazine	3.47	LCS	P	0 - 30
LFB	Terbufos	1.19	LCS	P	0 - 30
LFB	Terbutylazine	0.720	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P327292

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Chlordane	19.1	LCS	P	0 - 30
LFB	Toxaphene	27.0	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P327142

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1907192	Sucralose	24.7	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P327305

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1907280	Glyphosate	2.88	Spike	P	0 - 30
LFB	Glyphosate	0.753	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P327348

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1907280	Pyraclostrobin	2.82	Spike	P	0 - 30
LFB	Pyraclostrobin	0.189	LCS	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P327146

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1907364	Color (true)	1.66	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P327452

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1907606	Total Alkalinity	3.25	Sample	P	0 - 4.8

Quality Assurance Report Precision

Reference Method: SM 2540 C-97
Batch ID: P327487

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1906912	TDS	5.32	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P327490

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1907364	TDS	5.06	Sample	P	0 - 10

Reference Method: SM 2540 D-97
Batch ID: P327525

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1906912	TSS	5.94	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P327456

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1907606	Fluoride	1.49	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P327457

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1907162	Organic Carbon	0.0290	Spike	P	0 - 20

Reference Method: SM 5310 B-00
Batch ID: P327458

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1907492	Organic Carbon	1.28	Spike	P	0 - 20

Reference Method: USGS O-2060-01
Batch ID: P327141

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1907193	2,4-D	2.71	Spike	P	0 - 30
1907193	Acetaminophen	0.400	Spike	P	0 - 30
1907193	Bentazon	4.55	Spike	P	0 - 30
1907193	Carbamazepine	2.12	Spike	P	0 - 30
1907193	Diuron	4.31	Spike	P	0 - 30
1907193	Fenuron	20.2	Spike	P	0 - 30
1907193	Fluridone	1.73	Spike	P	0 - 30
1907193	Imidacloprid	1.09	Spike	P	0 - 30
1907193	Linuron	3.89	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: USGS O-2060-01
Batch ID: P327141

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1907193	MCP	2.50	Spike	P	0 - 30
1907193	Primidone	6.80	Spike	P	0 - 30
1907193	Triclopyr	4.35	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: 1907486
Field Sample ID: G2SD061917-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	125	P	30 - 150
EPA 8321B	Carbamazepine-d10	96.7	P	30 - 160
EPA 8321B	Diuron-d6	76.8	P	30 - 160
EPA 8321B	Diuron-d6	71.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	119	P	40 - 150
EPA 8321B	Primidone-d5	94.6	P	30 - 150
EPA 8321B	Sucralose-d6	68.5	P	40 - 160
USGS O-2060-01	2,4-D-d3	67.7	P	40 - 150
USGS O-2060-01	Acetaminophen-d4	125	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	96.7	P	30 - 160
USGS O-2060-01	Diuron-d6	76.8	P	30 - 160
USGS O-2060-01	Diuron-d6	71.9	P	30 - 160
USGS O-2060-01	Primidone-d5	94.6	P	30 - 150

Lab Sample ID: 1907487
Field Sample ID: G2SD062017-6

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	123	P	30 - 150
EPA 8321B	Carbamazepine-d10	133	P	30 - 160
EPA 8321B	Diuron-d6	79.4	P	30 - 160
EPA 8321B	Diuron-d6	133	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	111	P	40 - 150
EPA 8321B	Primidone-d5	105	P	30 - 150
EPA 8321B	Sucralose-d6	67.0	P	40 - 160
USGS O-2060-01	2,4-D-d3	77.3	P	40 - 150
USGS O-2060-01	Acetaminophen-d4	123	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	133	P	30 - 160
USGS O-2060-01	Diuron-d6	79.4	P	30 - 160
USGS O-2060-01	Diuron-d6	133	P	30 - 160
USGS O-2060-01	Primidone-d5	105	P	30 - 150

Lab Sample ID: 1907488
Field Sample ID: G2SD061917-3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
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Quality Assurance Report Surrogates

Lab Sample ID: 1907488

Field Sample ID: G2SD061917-3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	80.5	P	40 - 160
USGS O-2060-01	2,4-D-d3	68.5	P	40 - 150
USGS O-2060-01	Acetaminophen-d4	113	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	102	P	30 - 160
USGS O-2060-01	Diuron-d6	78.6	P	30 - 160
USGS O-2060-01	Primidone-d5	90.5	P	30 - 150

Lab Sample ID: 1907489

Field Sample ID: G2SD061917-4

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	71.0	P	40 - 160
USGS O-2060-01	2,4-D-d3	70.8	P	40 - 150
USGS O-2060-01	Acetaminophen-d4	122	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	93.7	P	30 - 160
USGS O-2060-01	Diuron-d6	67.2	P	30 - 160
USGS O-2060-01	Primidone-d5	88.0	P	30 - 150

Lab Sample ID: 1907490

Field Sample ID: G2SD061917-5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	78.0	P	40 - 160
USGS O-2060-01	2,4-D-d3	78.0	P	40 - 150
USGS O-2060-01	Acetaminophen-d4	111	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	106	P	30 - 160
USGS O-2060-01	Diuron-d6	84.1	P	30 - 160
USGS O-2060-01	Primidone-d5	97.2	P	30 - 150

Lab Sample ID: 1907495

Field Sample ID: G2SD061917-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	89.4	P	39 - 118
EPA 8270D	Tetrachloro-m-xylene	61.9	P	32 - 103
EPA 8276	Decachlorobiphenyl	79.3	P	31 - 100

Lab Sample ID: 1907496

Field Sample ID: G2SD062017-6

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	79.3	P	39 - 118
EPA 8270D	Tetrachloro-m-xylene	76.2	P	32 - 103
EPA 8276	Decachlorobiphenyl	79.8	P	31 - 100

Lab Sample ID: 1907497

Field Sample ID: G2SD061917-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	62.5	P	62 - 132
EPA 8270D	Simazine-d10	95.9	P	72 - 127

Quality Assurance Report Surrogates

Lab Sample ID: 1907498
 Field Sample ID: G2SD062017-6

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	64.9	P	62 - 132
EPA 8270D	Simazine-d10	95.6	P	72 - 127

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1
 Run ID: A77183
 Included Lab Sample IDs: 1907472, 1907473

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	95.1	100	P/P	90 - 110
Sulfate	95.9	100	P/P	90 - 110

Reference Method: SM 2120 B
 Run ID: A77207
 Included Lab Sample IDs: 1907472, 1907473

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.5	96.9	P/P	85 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Run ID: A77215
 Included Lab Sample IDs: 1907476, 1907477

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

Reference Method: EPA 180.1 Rev. 2.0
 Run ID: A77223
 Included Lab Sample IDs: 1907472, 1907473

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	99.5	P/P	95 - 105

Reference Method: EPA 350.1 Rev. 2.0
 Run ID: A77259
 Included Lab Sample IDs: 1907474, 1907475

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.3	99.7	P/P	90 - 110
Ammonia-N	99.7	99.7	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Run ID: A77262
 Included Lab Sample IDs: 1907474, 1907475

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A77282

Included Lab Sample IDs: 1907500, 1907501

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	103	P/P	90 - 110
Calcium	102	103	P/P	90 - 110
Iron	101	100	P/P	90 - 110
Iron	101	101	P/P	90 - 110
Magnesium	101	101	P/P	90 - 110
Magnesium	102	101	P/P	90 - 110
Potassium	101	97.5	P/P	90 - 110
Potassium	97.9	98.0	P/P	90 - 110
Sodium	100	101	P/P	90 - 110
Sodium	102	101	P/P	90 - 110
Zinc	97.9	97.0	P/P	90 - 110
Zinc	98.5	96.9	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A77292

Included Lab Sample IDs: 1907474, 1907475

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.9	93.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A77299

Included Lab Sample IDs: 1907474

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.6	101	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A77301

Included Lab Sample IDs: 1907486, 1907487

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Glyphosate	110	119	P/P	70 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A77305

Included Lab Sample IDs: 1907475

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.8	99.8	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A77323

Included Lab Sample IDs: 1907486, 1907487

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraclostrobin	130	110	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-97

Run ID: A77329

Included Lab Sample IDs: 1907472, 1907473

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

Reference Method: SM 4500 F-C-97

Run ID: A77329

Included Lab Sample IDs: 1907472, 1907473

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.1	100	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A77331

Included Lab Sample IDs: 1907474, 1907475

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	93.6	94.6	P/P	90 - 110
Organic Carbon	94.6	94.8	P/P	90 - 110

Reference Method: USGS O-2060-01

Run ID: A77371

Included Lab Sample IDs: 1907486, 1907487, 1907488, 1907489, 1907490

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	85.6	82.4	P/P	50 - 150
Acetaminophen	112	107	P/P	60 - 150
Bentazon	86.4	85.6	P/P	50 - 150
Carbamazepine	112	112	P/P	60 - 150
Diuron	113	104	P/P	60 - 150
Fenuron	110	114	P/P	60 - 150
Fluridone	106	106	P/P	60 - 160
Imidacloprid	104	102	P/P	60 - 150
Linuron	111	105	P/P	60 - 150
MCPP	83.6	84.8	P/P	50 - 150
Primidone	108	105	P/P	60 - 150
Triclopyr	90.8	84.4	P/P	50 - 150

Reference Method: EPA 8276

Run ID: A77386

Included Lab Sample IDs: 1907495, 1907496

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	88.4		P	80 - 120
Toxaphene	90.5		P	80 - 120

Reference Method: EPA 8270D

Run ID: A77389

Included Lab Sample IDs: 1907495, 1907496

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	97.1		P	80 - 120
Alpha-BHC	99.5		P	80 - 120
Alpha-Chlordane	98.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A77389

Included Lab Sample IDs: 1907495, 1907496

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beta-BHC	96.6		P	80 - 120
Carbophenothion	93.8		P	80 - 120
Chlorothalonil	88.6		P	80 - 120
Cypermethrin	102		P	80 - 120
DDD-p,p'	100		P	80 - 120
DDE-p,p'	99.0		P	80 - 120
DDT-p,p'	104		P	80 - 120
Delta-BHC	96.0		P	80 - 120
Dicofol	206*		F	80 - 120
Dieldrin	98.6		P	80 - 120
Endosulfan I	94.5		P	80 - 120
Endosulfan II	89.0		P	80 - 120
Endosulfan Sulfate	97.3		P	80 - 120
Endrin	96.7		P	80 - 120
Endrin Aldehyde	101		P	80 - 120
Endrin Ketone	97.3		P	80 - 120
Gamma-BHC	100		P	80 - 120
Gamma-Chlordane	97.4		P	80 - 120
Heptachlor	94.1		P	80 - 120
Heptachlor Epoxide	97.8		P	80 - 120
Methoxychlor	103		P	80 - 120
Mirex	100		P	80 - 120
Permethrin	100		P	80 - 120
Trifluralin	65.3*		F	80 - 120

Reference Method: EPA 8321B

Run ID: A77393

Included Lab Sample IDs: 1907486, 1907487, 1907488, 1907489, 1907490

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	68.8	85.0	P/P	60 - 160
Sucralose	87.5	71.2	P/P	60 - 160

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A77408

Included Lab Sample IDs: 1907500, 1907501

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	102	102	P/P	90 - 110
Arsenic	102	100	P/P	90 - 110
Cadmium	100	99.9	P/P	90 - 110
Cadmium	100	101	P/P	90 - 110
Chromium	100	104	P/P	90 - 110
Chromium	97.6	99.1	P/P	90 - 110
Copper	100	99.3	P/P	90 - 110
Copper	99.2	101	P/P	90 - 110
Lead	99.2	99.6	P/P	90 - 110
Lead	99.8	99.7	P/P	90 - 110
Nickel	100	98.8	P/P	90 - 110
Nickel	99.2	101	P/P	90 - 110
Silver	93.1	93.7	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A77408

Included Lab Sample IDs: 1907500, 1907501

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Silver	94.9	93.5	P/P	90 - 110

Reference Method: EPA 8270D

Run ID: A77625

Included Lab Sample IDs: 1907497, 1907498

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	102		P	80 - 120
Alachlor	102		P	80 - 120
Ametryn	102		P	80 - 120
Atrazine	102		P	80 - 120
Atrazine Desethyl	95.4		P	80 - 120
Azinphos Methyl	98.8		P	80 - 120
Bromacil	101		P	80 - 120
Butylate	101		P	80 - 120
Chlorpyrifos Ethyl	99.8		P	80 - 120
Chlorpyrifos Methyl	103		P	80 - 120
Cyanazine	97.7		P	80 - 120
Demeton	97.1		P	80 - 120
Diazinon	100		P	80 - 120
Disulfoton	97.2		P	80 - 120
EPTC	101		P	80 - 120
Ethion	98.8		P	80 - 120
Ethoprop	99.0		P	80 - 120
Fenamiphos	95.6		P	80 - 120
Fipronil	100		P	80 - 120
Fipronil Sulfide	96.9		P	80 - 120
Fipronil Sulfone	102		P	80 - 120
Fonofos	102		P	80 - 120
Hexazinone	98.5		P	80 - 120
Malathion	101		P	80 - 120
Metalaxyl	104		P	80 - 120
Metolachlor	104		P	80 - 120
Metribuzin	99.3		P	80 - 120
Mevinphos	102		P	80 - 120
Molinate	99.7		P	80 - 120
Norflurazon	102		P	80 - 120
Parathion Ethyl	98.5		P	80 - 120
Parathion Methyl	101		P	80 - 120
Pendimethalin	99.0		P	80 - 120
Phorate	96.7		P	80 - 120
Prometon	102		P	80 - 120
Prometryn	102		P	80 - 120
Simazine	101		P	80 - 120
Terbufos	99.5		P	80 - 120
Terbuthylazine	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D
Run ID: A77628
Included Lab Sample IDs: 1907497

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fipronil Sulfide	95.3		P	80 - 120
Fipronil Sulfone	100		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			Precision SMP	MS
					LCS			
EPA 180.1 Rev. 2.0	Turbidity						13.3	
EPA 200.7 Rev. 4.4	Calcium	105		110	105			0.386
	Iron	106		108	107	106		0.647
	Magnesium	103		109	105			0.195
	Potassium	98.5		108	99.1	99.0		0.0666
	Sodium	103		107	103			0.0908
	Zinc	98.9		102	99.9	97.9		2.06
EPA 200.8 Rev. 5.4	Arsenic	102		106	104	107		2.78
	Cadmium	101		105	102	104		1.71
	Chromium	101		95.6	94.3	97.7		3.35
	Copper	97.4		96.2	95.4	98.7		3.27
	Lead	99.5		102	101	104		2.88
	Nickel	99.2		97.9	95.6	98.7		3.19
	Silver	100		100	100	102		2.17
EPA 300.0 Rev. 2.1	Chloride	103		93.4	99.7		1.59	
	Sulfate	102		91.3	98.6		2.48	
EPA 350.1 Rev. 2.0	Ammonia-N	104		102	101			0.433
	Ammonia-N	104		101	98.7			1.23
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	97.6		89.4	99.3			9.15
EPA 353.2 Rev. 2.0	NO2NO3-N	103		103	103			0.0
EPA 365.1 Rev. 2.0	Total-P	101		96.8	98.0			1.20
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101		95.7	95.7			0.0
EPA 8270D	Acetochlor	85.8	84.4	85.6	85.9	1.56		0.265
	Alachlor	83.9	84.1	82.1	82.8	0.260		0.853
	Aldrin	56.3	60.0	71.0	69.6	6.38		2.02
	Alpha-BHC	76.8	82.8	76.3	72.2	7.54		5.55
	Alpha-Chlordane	73.3	76.0	81.2	81.9	3.66		0.850
	Ametryn	89.4	97.1	87.0	86.9	8.28		0.102
	Atrazine	92.4	94.2			1.95		1.06
	Atrazine Desethyl	89.2	96.5	75.2	76.9	7.96		1.94
	Azinphos Methyl	96.0	97.0	89.2	93.3	1.05		4.51
	Beta-BHC	83.7	84.2	79.3	96.4	0.642		19.5
	Bromacil	63.8	64.3	92.9	93.1	0.757		0.227
	Butylate	51.2	47.2	40.2	39.9	8.30		0.754
	Carbophenothion	32.0	20.9	130	134	41.9		2.93
	Chlorothalonil	100	103	115	108	2.50		6.01
	Chlorpyrifos Ethyl	78.0	84.0	80.3	80.6	7.35		0.440
	Chlorpyrifos Methyl	88.2	89.3	85.6	86.1	1.28		0.575

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 8270D	Cyanazine	149	150	138	135	0.301		2.22
	Cypermethrin	104	95.5	123	133	8.33		7.64
	DDD-p,p'	81.9	86.0	87.3	90.1	4.89		3.14
	DDE-p,p'	75.3	79.1	87.0	83.1	5.03		4.57
	DDT-p,p'	87.0	92.1	101	99.7	5.69		0.884
	Delta-BHC	82.1	79.3	82.1	94.9	3.54		14.4
	Demeton	85.7	89.4	79.4	81.5	4.24		2.59
	Diazinon	90.0	89.3	92.9	92.9	0.760		0.0552
	Dicofol	60.7	78.9	37.4	61.6	26.2		48.9
	Dieldrin	79.2	80.5	80.8	83.8	1.63		3.63
	Disulfoton	94.4	96.3	90.1	93.7	2.06		3.95
	Endosulfan I	78.6	79.1	92.3	89.6	0.655		2.92
	Endosulfan II	74.0	74.2	77.9	85.0	0.235		8.78
	Endosulfan Sulfate	77.2	74.7	79.2	99.7	3.37		22.9
	Endrin	84.6	80.0	84.5	84.2	5.63		0.294
	Endrin Aldehyde	102	107	465	459	4.84		1.39
	Endrin Ketone	96.7	91.5	110	110	5.55		0.295
	EPTC	48.1	45.2	41.7	48.1	6.22		14.4
	Ethion	85.1	73.9	92.3	92.9	14.1		0.685
	Ethoprop	80.3	78.9	77.0	81.8	1.75		5.98
	Fenamiphos	95.9	96.9	91.6	91.7	1.10		0.120
	Fipronil	88.3	88.7	100	99.5	0.462		0.573
	Fipronil Sulfide	88.8	90.8	93.4	94.6	2.31		1.35
	Fipronil Sulfone	80.4	81.6	79.2	80.3	1.44		1.25
	Fonofos	84.7	86.5	86.6	82.8	2.15		4.42
	Gamma-BHC	84.5	81.1	85.0	85.2	4.04		0.245
	Gamma-Chlordane	75.6	70.6	78.1	81.8	6.75		4.56
	Heptachlor	73.9	68.2	72.0	71.6	8.07		0.561
	Heptachlor Epoxide	79.0	75.5	83.2	82.8	4.48		0.472
	Hexazinone	80.0	79.8	89.3	91.1	0.273		2.05
	Malathion	89.1	89.3	90.9	88.9	0.233		2.24
	Metalaxyl	91.8	90.4	91.4	89.7	1.62		1.82
	Methoxychlor	101	89.1	94.9	92.2	12.1		2.91
	Metolachlor	84.4	84.4	81.7	81.0	0.0553		0.718
	Metribuzin	129	157	129	142	19.3		8.03
	Mevinphos	79.8	79.8	71.2	74.9	0.0227		5.06
	Mirex	69.8	67.6	80.3	81.0	3.25		0.918
	Molinate	48.6	44.1	44.9	51.0	9.81		12.6
	Norflurazon	88.0	84.8	88.1	86.5	3.64		1.81
	Parathion Ethyl	87.7	88.5	91.9	91.4	0.917		0.552
	Parathion Methyl	94.6	94.1	93.1	93.7	0.564		0.698
	Pendimethalin	89.8	88.9	99.7	102	0.933		1.99
	Permethrin	90.3	86.2	114	117	4.56		2.75
	Phorate	82.7	80.6	76.3	88.4	2.56		14.7
	Prometon	79.5	79.3	81.1	87.3	0.200		7.42
	Prometryn	88.8	89.8	91.3	87.8	1.14		3.88
	Simazine	98.3	94.9	86.2	71.1	3.47		11.0
	Terbufos	92.0	93.1	88.8	91.9	1.19		3.39
	Terbutylazine	85.8	86.4	87.1	85.5	0.720		1.82
	Trifluralin	105	109	242	239	3.67		1.33
EPA 8276	Chlordane	73.2	88.7	82.5		19.1		
	Toxaphene	90.6	119	109		27.0		
EPA 8321B	Glyphosate	114	115	128	132	0.753		2.88
	Pyraclostrobin	52.8	52.9	49.0	50.4	0.189		2.82

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8321B	Sucralose	82.5	70.5	55.0			24.7
SM 2120 B	Color (true)					1.66	
SM 2320 B-97	Total Alkalinity	104				3.25	
SM 2540 C-97	TDS					5.32	
	TDS					5.06	
SM 2540 D-97	TSS					5.94	
SM 4500 F-C-97	Fluoride	97.1	98.9	101			1.49
SM 5310 B-00	Organic Carbon	96.8	93.1	93.2			0.0290
	Organic Carbon	93.8	92.2	94.1			1.28
USGS O-2060-01	2,4-D	81.4	71.0	73.6			2.71
	Acetaminophen	46.6	99.8	100			0.400
	Bentazon	56.8	23.6	22.4			4.55
	Carbamazepine	116	95.4	93.4			2.12
	Diuron	117	71.8	68.6			4.31
	Fenuron	108	150	123			20.2
	Fluridone	99.8	58.2	57.2			1.73
	Imidacloprid	90.8	156	159			1.09
	Linuron	109	94.4	90.8			3.89
	MCPP	86.0	56.8	55.4			2.50
	Primidone	99.4	85.2	91.2			6.80
	Triclopyr	95.0	70.4	67.4			4.35

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1907472, 1907473
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1907500, 1907501
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1907500, 1907501
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1907472, 1907473
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1907472, 1907473
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1907474, 1907475
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1907474, 1907475
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1907474, 1907475
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1907474, 1907475
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1907476, 1907477
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	1907495, 1907496
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1907497, 1907498
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	1907495, 1907496
EPA 8321B / E31780	Glyphosate in water matrices by HPLC/MS/MS	1907486, 1907487
EPA 8321B / E31780	Pyraclostrobin in water matrices by HPLC/MS/MS	1907486, 1907487
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	1907486, 1907487, 1907488, 1907489, 1907490
SM 2120 B / E31780	True Color measured at 450 nm	1907472, 1907473
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1907472, 1907473

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1907472, 1907473
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1907472, 1907473
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1907472, 1907473
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1907474, 1907475
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1907486, 1907487, 1907488, 1907489, 1907490
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1907486, 1907487, 1907488, 1907489, 1907490

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	06/20/2017			06/20/2017 16:32	DeAsia Armster	1907472, 1907473
EPA 200.7 Rev. 4.4	06/20/2017	06/21/2017	Elliott D. Healy	06/22/2017	Betina Topolski	1907500, 1907501
EPA 200.8 Rev. 5.4	06/20/2017	06/21/2017	Elliott D. Healy	06/29/2017	Robert K Palmer	1907500, 1907501
EPA 300.0 Rev. 2.1	06/20/2017			06/22/2017	Julia Storbeck	1907472, 1907473
EPA 350.1 Rev. 2.0	06/20/2017			06/21/2017	Sofia Elnemr	1907474, 1907475
EPA 351.2 Rev. 2.0	06/20/2017	06/21/2017	Adrian Shelby	06/22/2017	Tanya Welborn	1907474, 1907475
EPA 353.2 Rev. 2.0	06/20/2017			06/22/2017	Beverly Y. Sanders	1907474, 1907475
EPA 365.1 Rev. 2.0	06/20/2017	06/22/2017	Adrian Shelby	06/23/2017	Lipi Saha	1907474, 1907475
EPA 365.1 Rev. 2.0 dissolved	06/20/2017			06/20/2017 15:48	Anthony C. Onicha	1907476
	06/20/2017			06/20/2017 15:49	Anthony C. Onicha	1907477
EPA 8270D	06/20/2017	06/22/2017	John Kaba	06/26/2017	Vandana T. Nagar	1907495, 1907496
	06/20/2017	06/22/2017	Rasheda Ghaffari	07/04/2017	Irina Carbone	1907497, 1907498
	06/20/2017	06/22/2017	Rasheda Ghaffari	07/06/2017	Irina Carbone	1907497
EPA 8276	06/20/2017	06/22/2017	John Kaba	06/26/2017	Vandana T. Nagar	1907495, 1907496
EPA 8321B	06/20/2017	06/23/2017	Julie Michelle Frank	06/23/2017	Julie Michelle Frank	1907486, 1907487
	06/20/2017	06/23/2017	Julie Michelle Frank	06/24/2017	Julie Michelle Frank	1907486, 1907487
	06/20/2017	06/27/2017	Mohammad Ghaffari	06/27/2017	Mohammad Ghaffari	1907486, 1907487, 1907488, 1907489, 1907490
SM 2120 B	06/20/2017			06/20/2017 15:16	Tanya Welborn	1907472
	06/20/2017			06/20/2017 15:17	Tanya Welborn	1907473
SM 2320 B-97	06/20/2017			06/24/2017	Dale L. Simmons	1907472, 1907473
SM 2540 C-97	06/20/2017			06/21/2017	Yijie Li	1907472, 1907473
SM 2540 D-97	06/20/2017			06/21/2017	Yijie Li	1907472, 1907473
SM 4500 F-C-97	06/20/2017			06/24/2017	Dale L. Simmons	1907472, 1907473
SM 5310 B-00	06/20/2017			06/24/2017	Sofia Elnemr	1907474, 1907475
USGS O-2060-01	06/20/2017	06/21/2017	Hoor Shaik	06/25/2017	Juyoung Kim	1907486, 1907487, 1907488, 1907489, 1907490