Chemical Analysis Report

WAS-SECT-2019-02-20-01

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

Event Description: **Alligator Creek**
Request ID: **RQ-2018-11-05-17**
Customer: **WAS-SECT**
Project ID: **NWQI**

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Certified by: Thekkekalathil Chandrasekhar, Chemist Administrator Date Certified: 12-MAR-2019 09:27

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 by the Florida Department of Health Environmental Laboratory Certification Program 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: Scurlock Creek at Pilgrim Rd **Collection Date/Time: 02/19/2019 13:55**

Field ID: G3WA0009 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2063712	EPA 180.1 Rev. 2.0	Turbidity	35	A	NTU	P359255	
	EPA 300.0 Rev. 2.1	Chloride	7.0		mg Cl/L	P359816	
		Sulfate	0.89		mg SO4/L	P359818	
	SM 2120 B	Color (true)	37		PCU	P359249	
	SM 2320 B-97	Total Alkalinity	5.9		mg CaCO3/L	P359598	
	SM 2540 C-97	TDS	45		mg/L	P359698	
	SM 2540 D-97	TSS	18		mg/L	P359466	
	SM 4500 F-C-97	Fluoride	0.040	I	mg F/L	P359602	
2063718	EPA 350.1 Rev. 2.0	Ammonia-N	0.38		mg N/L	P359547	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P359371	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.080		mg N/L	P359516	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P359309	
	SM 5310 B-00	Organic Carbon	7.2		mg C/L	P359592	
2063724	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.023		mg P/L	P359280	
2063759	EPA 8321B	2,4-D	0.0020	U	ug/L	P359132	
		Acesulfame K**	0.10	U	ug/L	P358980	
		AMPA**	0.10	U	ug/L	P358980	
		Sucralose**	0.020	I	ug/L	P358980	
		Acetaminophen**	0.0080	U	ug/L	P359132	
		Endothall**	0.25	U	ug/L	P358980	
		Glufosinate**	0.10	U	ug/L	P358980	
		Bentazon	8.0E-04	U	ug/L	P359132	
		Glyphosate**	0.10	U	ug/L	P358980	
		Carbamazepine**	8.0E-04	U	ug/L	P359132	
		Diuron	0.0020	U	ug/L	P359132	
		Fenuron	0.016	U	ug/L	P359132	
		Fluridone**	8.0E-04	U	ug/L	P359132	
		Imazapyr**	0.0040	U	ug/L	P359132	
		Hydrocodone**	0.0020	U	ug/L	P359132	
		Ibuprofen**	0.020	U	ug/L	P359132	
		Imidacloprid	0.0079	I	ug/L	P359132	MS
		Linuron	0.0040	U	ug/L	P359132	
		MCPP	0.0020	U	ug/L	P359132	
		Naproxen**	0.0080	U	ug/L	P359132	
		Primidone**	0.0040	U	ug/L	P359132	
		Pyraclostrobin**	0.0020	U	ug/L	P359132	
		Triclopyr**	0.0040	U	ug/L	P359132	

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: ALLIGATOR CREEK UPSTREAM OF BENTLEY RD **Collection Date/Time: 02/19/2019 13:23**

Field ID: G3WA0004 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2063713	EPA 180.1 Rev. 2.0	Turbidity	30	A	NTU	P359259	
	EPA 300.0 Rev. 2.1	Chloride	6.3		mg Cl/L	P359816	
		Sulfate	0.43	I	mg SO4/L	P359818	
	SM 2120 B	Color (true)	48		PCU	P359249	
	SM 2320 B-97	Total Alkalinity	13		mg CaCO3/L	P359598	
	SM 2540 C-97	TDS	48		mg/L	P359698	
	SM 2540 D-97	TSS	14		mg/L	P359466	
	SM 4500 F-C-97	Fluoride	0.043	I	mg F/L	P359602	
2063719	EPA 350.1 Rev. 2.0	Ammonia-N	0.11		mg N/L	P359547	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.78		mg N/L	P359373	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.19		mg N/L	P359516	
	EPA 365.1 Rev. 2.0	Total-P	0.079		mg P/L	P359309	
	SM 5310 B-00	Organic Carbon	8.4		mg C/L	P359592	
2063725	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.019		mg P/L	P359280	
2063760	EPA 8321B	2,4-D	0.0020	U	ug/L	P359132	
		Acesulfame K**	0.10	U	ug/L	P358980	
		AMPA**	0.10	U	ug/L	P358980	
		Sucralose**	0.097		ug/L	P358980	
		Acetaminophen**	0.0080	U	ug/L	P359132	
		Endothall**	0.25	U	ug/L	P358980	
		Glufosinate**	0.10	U	ug/L	P358980	
		Bentazon	8.0E-04	U	ug/L	P359132	
		Glyphosate**	0.10	U	ug/L	P358980	
		Carbamazepine**	8.0E-04	U	ug/L	P359132	
		Diuron	0.0020	U	ug/L	P359132	
		Fenuron	0.016	U	ug/L	P359132	
		Fluridone**	8.0E-04	U	ug/L	P359132	
		Imazapyr**	0.0057	I	ug/L	P359132	
		Hydrocodone**	0.0020	U	ug/L	P359132	
		Ibuprofen**	0.020	U	ug/L	P359132	
		Imidacloprid	0.0028	I	ug/L	P359132	MS
		Linuron	0.0040	U	ug/L	P359132	
		MCPP	0.0020	U	ug/L	P359132	
		Naproxen**	0.0080	U	ug/L	P359132	
		Primidone**	0.0040	U	ug/L	P359132	
		Pyraclostrobin**	0.0020	U	ug/L	P359132	
		Triclopyr**	0.0040	U	ug/L	P359132	

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: Pine Barn Creek at Woodrest Rd **Collection Date/Time: 02/19/2019 14:20**

Field ID: G3WA0011 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2063714	EPA 180.1 Rev. 2.0	Turbidity	4.8		NTU	P359255	
	EPA 300.0 Rev. 2.1	Chloride	6.2		mg Cl/L	P359816	
		Sulfate	0.20	U	mg SO4/L	P359818	
	SM 2120 B	Color (true)	120		PCU	P359245	
	SM 2320 B-97	Total Alkalinity	8.1		mg CaCO3/L	P359598	
	SM 2540 C-97	TDS	50		mg/L	P359698	
	SM 2540 D-97	TSS	4	I	mg/L	P359466	
	SM 4500 F-C-97	Fluoride	0.044	I	mg F/L	P359602	
2063720	EPA 350.1 Rev. 2.0	Ammonia-N	0.028		mg N/L	P359547	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.87		mg N/L	P359373	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P359516	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P359309	
	SM 5310 B-00	Organic Carbon	10		mg C/L	P359592	
2063726	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.029		mg P/L	P359280	
2063761	EPA 8321B	2,4-D	0.0020	U	ug/L	P359132	
		Acesulfame K**	0.10	U	ug/L	P358980	
		AMPA**	0.10	U	ug/L	P358980	
		Sucralose**	0.010	U	ug/L	P358980	
		Acetaminophen**	0.0080	U	ug/L	P359132	
		Endothall**	0.25	U	ug/L	P358980	
		Glufosinate**	0.10	U	ug/L	P358980	
		Bentazon	8.0E-04	U	ug/L	P359132	
		Glyphosate**	0.10	U	ug/L	P358980	
		Carbamazepine**	8.0E-04	U	ug/L	P359132	
		Diuron	0.0020	U	ug/L	P359132	
		Fenuron	0.016	U	ug/L	P359132	
		Fluridone**	8.0E-04	U	ug/L	P359132	
		Imazapyr**	0.0040	U	ug/L	P359132	
		Hydrocodone**	0.0020	U	ug/L	P359132	
		Ibuprofen**	0.020	U	ug/L	P359132	
		Imidacloprid	0.0043	I	ug/L	P359132	MS
		Linuron	0.0040	U	ug/L	P359132	
		MCPP	0.0020	U	ug/L	P359132	
		Naproxen**	0.0080	U	ug/L	P359132	
		Primidone**	0.0040	U	ug/L	P359132	
		Pyraclostrobin**	0.0020	U	ug/L	P359132	
		Triclopyr**	0.0040	U	ug/L	P359132	

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: Unnamed Creek at Woodrest Rd **Collection Date/Time: 02/19/2019 15:00**

Field ID: G3WA0010 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2063715	EPA 180.1 Rev. 2.0	Turbidity	20	A	NTU	P359260	
	EPA 300.0 Rev. 2.1	Chloride	4.8		mg Cl/L	P359816	
		Sulfate	0.35	I	mg SO4/L	P359818	
	SM 2120 B	Color (true)	120		PCU	P359249	
	SM 2320 B-97	Total Alkalinity	4.3		mg CaCO3/L	P359598	
	SM 2540 C-97	TDS	45		mg/L	P359698	
	SM 2540 D-97	TSS	13		mg/L	P359466	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P359602	
2063721	EPA 350.1 Rev. 2.0	Ammonia-N	0.22		mg N/L	P359547	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P359373	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.099		mg N/L	P359516	
	EPA 365.1 Rev. 2.0	Total-P	0.074		mg P/L	P359309	
	SM 5310 B-00	Organic Carbon	13		mg C/L	P359592	
2063727	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.014		mg P/L	P359280	
2063762	EPA 8321B	2,4-D	0.0020	U	ug/L	P359132	
		Acesulfame K**	0.10	U	ug/L	P358980	
		AMPA**	0.10	U	ug/L	P358980	
		Sucralose**	0.010	U	ug/L	P358980	
		Acetaminophen**	0.0080	U	ug/L	P359132	
		Endothall**	0.25	U	ug/L	P358980	
		Glufosinate**	0.10	U	ug/L	P358980	
		Bentazon	8.0E-04	U	ug/L	P359132	
		Glyphosate**	0.10	U	ug/L	P358980	
		Carbamazepine**	8.0E-04	U	ug/L	P359132	
		Diuron	0.0020	U	ug/L	P359132	
		Fenuron	0.016	U	ug/L	P359132	
		Fluridone**	8.0E-04	U	ug/L	P359132	
		Imazapyr**	0.0040	U	ug/L	P359132	
		Hydrocodone**	0.0020	U	ug/L	P359132	
		Ibuprofen**	0.020	U	ug/L	P359132	
		Imidacloprid	0.0068	I	ug/L	P359132	MS
		Linuron	0.0040	U	ug/L	P359132	
		MCPP	0.0020	U	ug/L	P359132	
		Naproxen**	0.0080	U	ug/L	P359132	
		Primidone**	0.0040	U	ug/L	P359132	
		Pyraclostrobin**	0.0020	U	ug/L	P359132	
		Triclopyr**	0.0040	U	ug/L	P359132	

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: Minnow Creek At Lovewood Rd **Collection Date/Time: 02/19/2019 10:30**

Field ID: G3WA0008 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2063733	EPA 180.1 Rev. 2.0	Turbidity	18		NTU	P359255	
	EPA 300.0 Rev. 2.1	Chloride	5.5		mg Cl/L	P359816	
		Sulfate	0.32	I	mg SO4/L	P359818	
	SM 2120 B	Color (true)	49	A	PCU	P359249	
	SM 2320 B-97	Total Alkalinity	9.1		mg CaCO3/L	P359598	
	SM 2540 C-97	TDS	39		mg/L	P359699	
	SM 2540 D-97	TSS	8	I	mg/L	P359467	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P359602	
2063734	EPA 350.1 Rev. 2.0	Ammonia-N	0.088		mg N/L	P359547	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.63		mg N/L	P359373	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.095		mg N/L	P359516	
	EPA 365.1 Rev. 2.0	Total-P	0.052		mg P/L	P359309	
	SM 5310 B-00	Organic Carbon	6.8		mg C/L	P359592	
2063735	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.011		mg P/L	P359280	

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: Alligator Creek Upstream of SR 273 **Collection Date/Time: 02/19/2019 11:20**

Field ID: G3WA0005 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2063730	EPA 180.1 Rev. 2.0	Turbidity	20		NTU	P359255	
	EPA 300.0 Rev. 2.1	Chloride	5.9		mg Cl/L	P359816	
		Sulfate	0.38	I	mg SO4/L	P359818	
	SM 2120 B	Color (true)	79		PCU	P359249	
	SM 2320 B-97	Total Alkalinity	10		mg CaCO3/L	P359598	
	SM 2540 C-97	TDS	49		mg/L	P359699	
	SM 2540 D-97	TSS	15		mg/L	P359467	
	SM 4500 F-C-97	Fluoride	0.038	I	mg F/L	P359602	
2063731	EPA 350.1 Rev. 2.0	Ammonia-N	0.15		mg N/L	P359547	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.85		mg N/L	P359373	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.16		mg N/L	P359516	
	EPA 365.1 Rev. 2.0	Total-P	0.084		mg P/L	P359309	
	SM 5310 B-00	Organic Carbon	9.5		mg C/L	P359592	
2063732	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.025		mg P/L	P359280	
2063765	EPA 8321B	Aldicarb	0.020	U	ug/L	P359132	
		Aldicarb Sulfone	0.0020	U	ug/L	P359132	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P359132	
		Carbaryl	0.0020	U	ug/L	P359132	
		Carbofuran	0.0020	U	ug/L	P359132	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P359132	
		Methiocarb	0.0020	U	ug/L	P359132	
		Methomyl	0.0020	U	ug/L	P359132	
		Oxamyl	0.0020	U	ug/L	P359132	
		Propoxur	0.0020	U	ug/L	P359132	
2063766		2,4-D	0.0020	U	ug/L	P359132	
		Acesulfame K**	0.10	U	ug/L	P358980	
		AMPA**	0.10	U	ug/L	P358980	
		Sucralose**	0.041		ug/L	P358980	
		Acetaminophen**	0.0080	U	ug/L	P359132	
		Endothall**	0.25	U	ug/L	P358980	
		Glufosinate**	0.10	U	ug/L	P358980	
		Bentazon	8.0E-04	U	ug/L	P359132	
		Glyphosate**	0.10	U	ug/L	P358980	
		Carbamazepine**	8.0E-04	U	ug/L	P359132	
		Diuron	0.0020	U	ug/L	P359132	
		Fenuron	0.016	U	ug/L	P359132	
		Fluridone**	8.0E-04	U	ug/L	P359132	
		Imazapyr**	0.0075	I	ug/L	P359132	
		Hydrocodone**	0.0020	U	ug/L	P359132	
		Ibuprofen**	0.020	U	ug/L	P359132	
		Imidacloprid	0.0068	I	ug/L	P359132	MS
		Linuron	0.0040	U	ug/L	P359132	
		MCPP	0.0020	U	ug/L	P359132	

Field ID: G3WA0005 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2063766	EPA 8321B	Naproxen**	0.0080	U	ug/L	P359132	
		Primidone**	0.0040	U	ug/L	P359132	
		Pyraclostrobin**	0.0020	U	ug/L	P359132	
		Triclopyr**	0.0040	U	ug/L	P359132	
2063767	EPA 8270D	Aldrin	4.1	U	ng/L	P359283	
		Alpha-BHC	2.0	UJ	ng/L	P359283	LCS
		Alpha-Chlordane	1.0	U	ng/L	P359283	
		Beta-BHC	10	U	ng/L	P359283	MS
		Delta-BHC	10	U	ng/L	P359283	
		Gamma-BHC	10	U	ng/L	P359283	
		Carbophenothion	12	U	ng/L	P359283	
		Chlorothalonil	2.0	U	ng/L	P359283	RPD
		Cypermethrin	20	U	ng/L	P359283	
		DDD-p,p'	8.2	U	ng/L	P359283	
		DDE-p,p'	8.2	U	ng/L	P359283	
		DDT-p,p'	10	U	ng/L	P359283	
		Dicofol	31	U	ng/L	P359283	
		Dieldrin	4.1	U	ng/L	P359283	
		Endosulfan I	4.1	U	ng/L	P359283	
		Endosulfan II	4.1	U	ng/L	P359283	
		Endosulfan Sulfate	2.0	U	ng/L	P359283	
		Endrin	2.0	U	ng/L	P359283	
		Endrin Aldehyde	2.0	U	ng/L	P359283	
		Endrin Ketone	2.0	U	ng/L	P359283	
		Gamma-Chlordane	1.0	U	ng/L	P359283	
		Heptachlor	1.5	U	ng/L	P359283	
		Heptachlor Epoxide	2.0	U	ng/L	P359283	
		Methoxychlor	4.1	U	ng/L	P359283	
		Mirex	2.0	U	ng/L	P359283	
		Permethrin	10	U	ng/L	P359283	
		Trifluralin	2.6	U	ng/L	P359283	
	EPA 8276	Chlordane	5.1	U	ng/L	P359283	
		Toxaphene	31	U	ng/L	P359283	
2063768	EPA 8270D	Acetochlor	0.67	I	ng/L	P359412	
		Alachlor	0.24	U	ng/L	P359412	
		Ametryn	0.59	U	ng/L	P359412	
		Atrazine	0.24	U	ng/L	P359412	
		Atrazine Desethyl	1.5	U	ng/L	P359412	
		Azinphos Methyl	2.2	U	ng/L	P359412	
		Bromacil	0.49	U	ng/L	P359412	
		Butylate	0.39	U	ng/L	P359412	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P359412	
		Chlorpyrifos Methyl	0.098	U	ng/L	P359412	
		Cyanazine	3.2	U	ng/L	P359412	
		Demeton	6.8	U	ng/L	P359412	

Field ID: G3WA0005 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2063768	EPA 8270D	Diazinon	0.12	U	ng/L	P359412	
		Dimethenamid**	0.098	U	ng/L	P359412	
		Disulfoton	0.49	U	ng/L	P359412	
		Dithiopyr**	0.098	U	ng/L	P359412	
		EPTC	1.2	U	ng/L	P359412	
		Ethion	0.15	U	ng/L	P359412	
		Ethoprop	0.098	U	ng/L	P359412	
		Fenamiphos	0.49	U	ng/L	P359412	
		Fipronil	0.24	U	ng/L	P359412	
		Fipronil Desulfinyl**	0.12	UJ	ng/L	P359412	LCS
		Fipronil Sulfide	0.15	U	ng/L	P359412	
		Fipronil Sulfone	0.15	U	ng/L	P359412	
		Fonofos	0.20	U	ng/L	P359412	
		Hexazinone	0.76	I	ng/L	P359412	
		Malathion	0.34	U	ng/L	P359412	
		Metalaxyl	0.29	U	ng/L	P359412	
		Metolachlor	0.94	I	ng/L	P359412	
		Metribuzin	0.73	U	ng/L	P359412	
		Mevinphos	0.49	U	ng/L	P359412	
		Molinate	0.29	U	ng/L	P359412	
		Norflurazon	0.49	U	ng/L	P359412	
		Oxadiazon**	0.098	U	ng/L	P359412	
		Parathion Ethyl	0.24	U	ng/L	P359412	
		Parathion Methyl	0.54	U	ng/L	P359412	
		Pendimethalin	0.98	U	ng/L	P359412	
		Phorate	0.24	U	ng/L	P359412	
		Prodiamine**	0.17	U	ng/L	P359412	
		Prometon	0.88	U	ng/L	P359412	
		Prometryn	0.20	U	ng/L	P359412	
		Simazine	0.49	U	ng/L	P359412	
		Tebuconazole**	4.5		ng/L	P359412	
		Terbufos	0.098	U	ng/L	P359412	
		Terbuthylazine	0.42	U	ng/L	P359412	
2063769	EPA 200.7 Rev. 4.4	Calcium	4.69		mg/L	P359691	
		Iron	2.07E+03		ug/L	P359691	
		Magnesium	1.45		mg/L	P359691	
		Potassium	1.5		mg/L	P359691	
		Sodium	2.2		mg/L	P359691	
	EPA 200.8 Rev. 5.4	Arsenic	0.75		ug/L	P359328	
		Cadmium	0.020	U	ug/L	P359328	
		Chromium	0.64	I	ug/L	P359328	
		Copper	0.86		ug/L	P359328	
		Lead	1.21		ug/L	P359328	
		Nickel	0.50	U	ug/L	P359328	
		Silver	0.010	U	ug/L	P359328	

Field ID: G3WA0005 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2063769	EPA 200.8 Rev. 5.4	Zinc	3.4	I	ug/L	P359328	

Ref. Method and Comment:
SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8270D: Refer to the narrative for an explanation of QC Codes.
EPA 200.8 Rev. 5.4: The lead result was confirmed in the undigested sample on 02/28/2019.

Sample Location: Unnamed Creek at Palmview Rd **Collection Date/Time: 02/19/2019 15:35**

Field ID: G3WA0013 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2063716	EPA 180.1 Rev. 2.0	Turbidity	20	A	NTU	P359261	
	EPA 300.0 Rev. 2.1	Chloride	6.0		mg Cl/L	P359816	
		Sulfate	0.39	I	mg SO4/L	P359818	
	SM 2120 B	Color (true)	90		PCU	P359249	
	SM 2320 B-97	Total Alkalinity	5.8		mg CaCO3/L	P359598	
	SM 2540 C-97	TDS	42		mg/L	P359699	
	SM 2540 D-97	TSS	11		mg/L	P359467	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P359602	
2063722	EPA 350.1 Rev. 2.0	Ammonia-N	0.23		mg N/L	P359547	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P359373	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.056		mg N/L	P359516	
	EPA 365.1 Rev. 2.0	Total-P	0.082		mg P/L	P359309	
	SM 5310 B-00	Organic Carbon	11		mg C/L	P359592	
2063728	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.019		mg P/L	P359280	
2063763	EPA 8321B	2,4-D	0.0020	U	ug/L	P359132	
		Acesulfame K**	0.10	U	ug/L	P358980	
		AMPA**	0.10	U	ug/L	P358980	
		Sucralose**	0.010	I	ug/L	P358980	
		Acetaminophen**	0.0080	U	ug/L	P359132	
		Endothall**	0.25	U	ug/L	P358980	
		Glufosinate**	0.10	U	ug/L	P358980	
		Bentazon	0.0052		ug/L	P359132	
		Glyphosate**	0.10	U	ug/L	P358980	
		Carbamazepine**	8.0E-04	U	ug/L	P359132	
		Diuron	0.0020	U	ug/L	P359132	
		Fenuron	0.016	U	ug/L	P359132	
		Fluridone**	8.0E-04	U	ug/L	P359132	
		Imazapyr**	0.0092	I	ug/L	P359132	
		Hydrocodone**	0.0020	U	ug/L	P359132	
		Ibuprofen**	0.020	U	ug/L	P359132	
		Imidacloprid	0.0020	U	ug/L	P359132	MS
		Linuron	0.0040	U	ug/L	P359132	
		MCPP	0.0020	U	ug/L	P359132	
		Naproxen**	0.0080	U	ug/L	P359132	
		Primidone**	0.0040	U	ug/L	P359132	
		Pyraclostrobin**	0.0020	U	ug/L	P359132	
		Triclopyr**	0.0040	U	ug/L	P359132	

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: Little Alligator Creek at SR 273 **Collection Date/Time: 02/19/2019 12:45**

Field ID: G3WA0006 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2063717	EPA 180.1 Rev. 2.0	Turbidity	33		NTU	P359255	
	EPA 300.0 Rev. 2.1	Chloride	6.2		mg Cl/L	P359816	
		Sulfate	0.35	I	mg SO4/L	P359818	
	SM 2120 B	Color (true)	60		PCU	P359249	
	SM 2320 B-97	Total Alkalinity	12		mg CaCO3/L	P359598	
	SM 2540 C-97	TDS	59		mg/L	P359699	
	SM 2540 D-97	TSS	18		mg/L	P359467	
	SM 4500 F-C-97	Fluoride	0.043	I	mg F/L	P359602	
2063723	EPA 350.1 Rev. 2.0	Ammonia-N	0.10		mg N/L	P359547	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.89		mg N/L	P359373	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.087		mg N/L	P359516	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P359309	
	SM 5310 B-00	Organic Carbon	9.6		mg C/L	P359592	
2063729	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.020		mg P/L	P359280	
2063764	EPA 8321B	2,4-D	0.0020	U	ug/L	P359132	
		Acesulfame K**	0.10	U	ug/L	P358980	
		AMPA**	0.10	U	ug/L	P358980	
		Sucralose**	0.041		ug/L	P358980	
		Acetaminophen**	0.0080	U	ug/L	P359132	
		Endothall**	0.25	U	ug/L	P358980	
		Glufosinate**	0.10	U	ug/L	P358980	
		Bentazon	0.0034		ug/L	P359132	
		Glyphosate**	0.10	U	ug/L	P358980	
		Carbamazepine**	8.0E-04	U	ug/L	P359132	
		Diuron	0.0020	U	ug/L	P359132	
		Fenuron	0.016	U	ug/L	P359132	
		Fluridone**	8.0E-04	U	ug/L	P359132	
		Imazapyr**	0.0040	U	ug/L	P359132	
		Hydrocodone**	0.0020	U	ug/L	P359132	
		Ibuprofen**	0.020	U	ug/L	P359132	
		Imidacloprid	0.0020	U	ug/L	P359132	MS
		Linuron	0.0040	U	ug/L	P359132	
		MCPP	0.0020	U	ug/L	P359132	
		Naproxen**	0.0080	U	ug/L	P359132	
		Primidone**	0.0040	U	ug/L	P359132	
		Pyraclostrobin**	0.0020	U	ug/L	P359132	
		Triclopyr**	0.0040	U	ug/L	P359132	

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P359255

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P359259

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P359260

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P359261

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P359691

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

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P359328

Component	Result	Code	Units
Arsenic	0.050	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Nickel	0.50	U	ug/L
Silver	0.010	U	ug/L
Zinc	2.0	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359816

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359818

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P359547

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359371

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359373

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359516

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P359309

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P359280

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

Reference Method: EPA 8270D
Batch ID: P359283

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	10	U	ng/L
Carbophenothion	12	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cypermethrin	20	U	ng/L
DDD-p,p'	8.0	U	ng/L
DDE-p,p'	8.0	U	ng/L
DDT-p,p'	10	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270D
Batch ID: P359283

Component	Result	Code	Units
Delta-BHC	10	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	10	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	2.5	U	ng/L

Reference Method: EPA 8270D
Batch ID: P359412

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	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	3.2	U	ng/L
Demeton	7.0	U	ng/L
Diazinon	0.12	U	ng/L
Dimethenamid	0.10	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.10	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Fenamiphos	0.50	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	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	0.30	U	ng/L
Metolachlor	0.50	U	ng/L
Metribuzin	0.75	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270D
Batch ID: P359412

Component	Result	Code	Units
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.10	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Simazine	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L

Reference Method: EPA 8276
Batch ID: P359283

Component	Result	Code	Units
Chlordane	5.0	U	ng/L
Toxaphene	30	U	ng/L

Reference Method: EPA 8321B
Batch ID: P358980

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L
Endothall	0.25	U	ug/L
Glufosinate	0.10	U	ug/L
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B
Batch ID: P359132

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
3-Hydroxycarbofuran	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Aldicarb	0.020	U	ug/L
Aldicarb Sulfone	0.0020	U	ug/L
Aldicarb Sulfoxide	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P359132

Component	Result	Code	Units
Ibuprofen	0.020	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
MCPP	0.0020	U	ug/L
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Oxamyl	0.0020	U	ug/L
Primidone	0.0040	U	ug/L
Propoxur	0.0020	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2120 B
Batch ID: P359245

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P359249

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P359598

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

Reference Method: SM 2540 C-97
Batch ID: P359698

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P359699

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P359466

Component	Result	Code	Units
TSS	2	U	mg/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 2540 D-97
Batch ID: P359467

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P359602

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P359592

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P359691

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	105		P	85 - 115
Iron	103		P	85 - 115
Magnesium	103		P	85 - 115
Potassium	99.1		P	85 - 115
Sodium	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P359328

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	108		P	80 - 120
Cadmium	108		P	80 - 120
Chromium	109		P	80 - 120
Copper	110		P	80 - 120
Lead	107		P	80 - 120
Nickel	108		P	80 - 120
Silver	104		P	80 - 120
Zinc	108		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359816

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359818

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P359547

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359371

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359373

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.2		P	90 - 110

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359516

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P359309

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: P359280

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

Reference Method: EPA 8270D
Batch ID: P359283

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	69.3	65.9	P/P	20 - 93.0
Alpha-BHC	121	108	F/P	57 - 119
Alpha-Chlordane	91.1	87.5	P/P	58 - 112
Beta-BHC	143	142	P/P	56 - 149
Carbophenothion	103	111	P/P	26 - 147
Chlorothalonil	117	114	P/P	20 - 155
Cypermethrin	80.6	89.3	P/P	40 - 137
DDD-p,p'	105	102	P/P	65 - 129
DDE-p,p'	91.2	87.3	P/P	57 - 116
DDT-p,p'	111	105	P/P	53 - 133
Delta-BHC	148	146	P/P	59 - 163
Dicofol	108	97.2	P/P	24 - 138
Dieldrin	98.9	94.3	P/P	60 - 120
Endosulfan I	97.0	93.4	P/P	64 - 118
Endosulfan II	106	107	P/P	58 - 142
Endosulfan Sulfate	92.3	94.7	P/P	60 - 127
Endrin	103	93.9	P/P	59 - 122
Endrin Aldehyde	109	107	P/P	49 - 132
Endrin Ketone	94.3	93.4	P/P	64 - 121
Gamma-BHC	137	124	P/P	56 - 141
Gamma-Chlordane	88.4	86.3	P/P	56 - 110
Heptachlor	75.5	71.9	P/P	46 - 96.0
Heptachlor Epoxide	94.5	90.9	P/P	61 - 112
Methoxychlor	128	122	P/P	63 - 134
Mirex	66.4	65.3	P/P	45 - 100
Permethrin	74.8	76.5	P/P	53 - 115
Trifluralin	99.1	94.7	P/P	39 - 142

Reference Method: EPA 8270D
Batch ID: P359412

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	90.6	100	P/P	71 - 121
Alachlor	89.4	98.0	P/P	72 - 119

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P359412

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ametryn	86.7	101	P/P	47 - 144
Atrazine	88.1	91.4	P/P	75 - 123
Atrazine Desethyl	77.8	78.0	P/P	45 - 133
Azinphos Methyl	109	115	P/P	66 - 165
Bromacil	71.3	79.9	P/P	43 - 123
Butylate	52.2	59.7	P/P	27 - 83.0
Chlorpyrifos Ethyl	91.8	103	P/P	70 - 117
Chlorpyrifos Methyl	88.6	98.2	P/P	71 - 120
Cyanazine	93.1	96.6	P/P	34 - 264
Demeton	81.5	91.7	P/P	41 - 122
Diazinon	87.5	97.2	P/P	70 - 127
Dimethenamid	90.2	99.6	P/P	60 - 130
Disulfoton	84.3	104	P/P	56 - 127
Dithiopyr	87.0	98.2	P/P	60 - 130
EPTC	51.0	60.2	P/P	24 - 84.0
Ethion	81.9	92.7	P/P	53 - 132
Ethoprop	84.8	95.0	P/P	57 - 117
Fenamiphos	75.0	82.2	P/P	55 - 136
Fipronil	71.4	74.5	P/P	64 - 126
Fipronil Desulfinyl	59.3	63.6	F/P	60 - 130
Fipronil Sulfide	59.7	65.5	P/P	57 - 120
Fipronil Sulfone	66.0	74.0	P/P	52 - 115
Fonofos	82.1	95.2	P/P	61 - 121
Hexazinone	90.0	99.9	P/P	62 - 131
Malathion	91.6	103	P/P	67 - 126
Metalaxyl	86.6	95.3	P/P	54 - 128
Metolachlor	89.2	98.7	P/P	71 - 118
Metribuzin	151	163	P/P	42 - 221
Mevinphos	75.7	86.2	P/P	45 - 114
Molinate	67.6	76.3	P/P	33 - 91.0
Norflurazon	79.4	84.2	P/P	60 - 123
Oxadiazon	78.2	89.1	P/P	60 - 130
Parathion Ethyl	83.6	90.9	P/P	73 - 111
Parathion Methyl	96.6	110	P/P	74 - 126
Pendimethalin	80.9	94.6	P/P	63 - 131
Phorate	94.5	107	P/P	54 - 115
Prodiamine	77.0	86.6	P/P	60 - 130
Prometon	76.7	81.4	P/P	61 - 120
Prometryn	77.4	86.7	P/P	62 - 126
Simazine	106	120	P/P	75 - 126
Tebuconazole	66.5	70.0	P/P	30 - 100
Terbufos	84.8	98.1	P/P	65 - 116
Terbuthylazine	85.9	98.4	P/P	73 - 117

Reference Method: EPA 8276
Batch ID: P359283

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	79.6	88.6	P/P	43 - 128
Toxaphene	65.0	55.8	P/P	38 - 140

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P358980

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	118		P	40 - 150
AMPA	87.8		P	40 - 150
Endothall	92.3		P	40 - 150
Glufosinate	105		P	40 - 150
Glyphosate	100		P	40 - 140
Sucralose	95.4		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P359132

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	78.2		P	40 - 150
3-Hydroxycarbofuran	109		P	40 - 150
Acetaminophen	95.1		P	30 - 150
Aldicarb	65.0		P	30 - 150
Aldicarb Sulfone	98.6		P	40 - 150
Aldicarb Sulfoxide	119		P	40 - 150
Bentazon	115		P	30 - 150
Carbamazepine	92.2		P	40 - 150
Carbaryl	81.1		P	40 - 150
Carbofuran	81.0		P	40 - 150
Diuron	82.7		P	40 - 150
Fenuron	115		P	40 - 150
Fluridone	102		P	40 - 150
Hydrocodone	102		P	40 - 150
Ibuprofen	88.5		P	40 - 150
Imazapyr	102		P	40 - 150
Imidacloprid	103		P	40 - 150
Linuron	74.2		P	40 - 150
MCPP	99.7		P	40 - 150
Methiocarb	71.8		P	40 - 150
Methomyl	108		P	40 - 150
Naproxen	75.6		P	40 - 150
Oxamyl	93.8		P	40 - 150
Primidone	104		P	40 - 150
Propoxur	89.3		P	40 - 150
Pyraclostrobin	69.0		P	40 - 150
Triclopyr	64.2		P	40 - 150

Reference Method: SM 2120 B
Batch ID: P359245

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.2		P	90 - 110

Reference Method: SM 2120 B
Batch ID: P359249

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.1		P	90 - 110

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-97
Batch ID: P359598

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	106		P	98 - 107

Reference Method: SM 4500 F-C-97
Batch ID: P359602

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	95.6		P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P359592

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.4		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P359691

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2063940	Calcium	103	105	P/P	80 - 120
2063940	Iron	103	104	P/P	80 - 120
2063940	Magnesium	103	104	P/P	80 - 120
2063940	Potassium	101	102	P/P	80 - 120
2063940	Sodium	98.6	101	P/P	80 - 120
2064291	Calcium	102		P	80 - 120
2064291	Iron	103		P	80 - 120
2064291	Magnesium	102		P	80 - 120
2064291	Potassium	99.3		P	80 - 120
2064291	Sodium	98.3		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P359328

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2063939	Arsenic	106		P	80 - 120
2063939	Cadmium	107		P	80 - 120
2063939	Chromium	106		P	80 - 120
2063939	Copper	109		P	80 - 120
2063939	Lead	106		P	80 - 120
2063939	Nickel	105		P	80 - 120
2063939	Silver	102		P	80 - 120
2063939	Zinc	105		P	80 - 120
2063961	Arsenic	110	110	P/P	80 - 120
2063961	Cadmium	110	109	P/P	80 - 120
2063961	Chromium	110	110	P/P	80 - 120
2063961	Copper	110	110	P/P	80 - 120
2063961	Lead	109	108	P/P	80 - 120
2063961	Nickel	106	106	P/P	80 - 120
2063961	Silver	105	105	P/P	80 - 120
2063961	Zinc	106	106	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359816

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2063525	Chloride	102		P	90 - 110
2063778	Chloride	97.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359818

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2063525	Sulfate	101		P	90 - 110
2063778	Sulfate	103		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P359547

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2063720	Ammonia-N	99.7	98.1	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359371

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2063530	Kjeldahl Nitrogen	109	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359373

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2063720	Kjeldahl Nitrogen	104	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359516

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2063718	NO2NO3-N	99.2	98.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P359309

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2063786	Total-P	102	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P359280

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2063732	O-Phosphate-P	95.2	95.3	P/P	90 - 110

Reference Method: EPA 8270D
Batch ID: P359283

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2064059	Aldrin	70.8	72.1	P/P	25 - 92.0
2064059	Alpha-BHC	121	120	P/P	49 - 130
2064059	Alpha-Chlordane	97.0	91.5	P/P	50 - 115
2064059	Beta-BHC	182	155	F/P	43 - 157
2064059	Carbophenothion	131	128	P/P	27 - 180
2064059	Chlorothalonil	126	76.9	P/P	10 - 216
2064059	Cypermethrin	82.5	79.6	P/P	40 - 153
2064059	DDD-p,p'	115	104	P/P	53 - 128
2064059	DDE-p,p'	98.1	91.9	P/P	48 - 116
2064059	DDT-p,p'	117	112	P/P	47 - 128
2064059	Delta-BHC	188	162	P/P	51 - 196
2064059	Dicofol	109	120	P/P	10 - 147
2064059	Dieldrin	103	95.4	P/P	48 - 128
2064059	Endosulfan I	97.4	96.7	P/P	58 - 126
2064059	Endosulfan II	114	103	P/P	50 - 150
2064059	Endosulfan Sulfate	99.7	99.8	P/P	56 - 130
2064059	Endrin	107	98.7	P/P	50 - 126
2064059	Endrin Aldehyde	106	84.9	P/P	12 - 145
2064059	Endrin Ketone	98.9	88.6	P/P	59 - 132
2064059	Gamma-BHC	141	133	P/P	50 - 155
2064059	Gamma-Chlordane	95.0	89.3	P/P	50 - 112
2064059	Heptachlor	72.7	74.3	P/P	41 - 98.0

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P359283

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2064059	Heptachlor Epoxide	97.5	93.6	P/P	55 - 117
2064059	Methoxychlor	116	91.5	P/P	55 - 133
2064059	Mirex	61.9	56.1	P/P	44 - 101
2064059	Permethrin	81.4	79.4	P/P	52 - 124
2064059	Trifluralin	103	103	P/P	10 - 201

Reference Method: EPA 8270D
Batch ID: P359412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2063768	Acetochlor	97.2	108	P/P	63 - 129
2063768	Alachlor	86.9	93.6	P/P	65 - 127
2063768	Ametryn	96.4	108	P/P	40 - 164
2063768	Atrazine	93.5	104	P/P	66 - 135
2063768	Atrazine Desethyl	76.9	74.5	P/P	14 - 157
2063768	Azinphos Methyl	107	116	P/P	49 - 180
2063768	Bromacil	77.3	83.4	P/P	48 - 130
2063768	Butylate	52.0	44.7	P/P	10 - 94.0
2063768	Chlorpyrifos Ethyl	96.5	103	P/P	58 - 123
2063768	Chlorpyrifos Methyl	84.5	93.9	P/P	58 - 125
2063768	Cyanazine	79.3	88.3	P/P	24 - 253
2063768	Demeton	47.5	48.7	P/P	25 - 149
2063768	Diazinon	86.3	90.6	P/P	59 - 144
2063768	Dimethenamid	88.5	97.7	P/P	60 - 130
2063768	Disulfoton	87.1	95.4	P/P	54 - 132
2063768	Dithiopyr	86.5	91.2	P/P	60 - 130
2063768	EPTC	43.4	37.9	P/P	10 - 92.0
2063768	Ethion	92.2	101	P/P	30 - 148
2063768	Ethoprop	88.7	97.5	P/P	50 - 130
2063768	Fenamiphos	77.5	82.0	P/P	49 - 142
2063768	Fipronil	79.5	86.0	P/P	46 - 140
2063768	Fipronil Desulfinyl	66.2	69.0	P/P	60 - 130
2063768	Fipronil Sulfide	78.7	80.2	P/P	31 - 136
2063768	Fipronil Sulfone	82.5	75.3	P/P	16 - 136
2063768	Fonofos	84.8	96.0	P/P	55 - 129
2063768	Hexazinone	97.0	107	P/P	56 - 141
2063768	Malathion	101	108	P/P	56 - 135
2063768	Metalaxyl	87.4	93.7	P/P	54 - 135
2063768	Metolachlor	90.5	97.8	P/P	51 - 140
2063768	Metribuzin	153	166	P/P	45 - 254
2063768	Mevinphos	84.7	96.0	P/P	33 - 131
2063768	Molinate	70.3	71.0	P/P	14 - 98.0
2063768	Norflurazon	84.5	88.7	P/P	34 - 136
2063768	Oxadiazon	84.7	95.8	P/P	60 - 130
2063768	Parathion Ethyl	82.2	89.8	P/P	66 - 118
2063768	Parathion Methyl	101	109	P/P	64 - 136
2063768	Pendimethalin	91.8	94.0	P/P	59 - 144
2063768	Phorate	78.2	81.9	P/P	42 - 130
2063768	Prodiamine	87.6	101	P/P	60 - 130
2063768	Prometon	82.1	88.3	P/P	59 - 134
2063768	Prometryn	80.9	93.4	P/P	54 - 135
2063768	Simazine	99.5	112	P/P	53 - 156

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P359412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2063768	Tebuconazole	92.6	96.6	P/P	30 - 100
2063768	Terbufos	84.3	95.3	P/P	57 - 131
2063768	Terbuthylazine	85.9	96.9	P/P	68 - 125

Reference Method: EPA 8276
Batch ID: P359283

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2064415	Chlordane	87.6	83.5	P/P	34 - 136
2064415	Toxaphene	65.3	57.7	P/P	22 - 152

Reference Method: EPA 8321B
Batch ID: P358980

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2062987	Acesulfame K	86.1	86.3	P/P	40 - 150
2062987	AMPA	67.8	67.6	P/P	40 - 150
2062987	Endothall	94.2	94.2	P/P	40 - 150
2062987	Glufosinate	77.8	71.7	P/P	40 - 150
2062987	Glyphosate	83.1	77.8	P/P	40 - 140
2062987	Sucralose	98.0	96.5	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P359132

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2063321	3-Hydroxycarbofuran	109	123	P/P	40 - 150
2063321	Aldicarb	73.1	72.6	P/P	30 - 150
2063321	Aldicarb Sulfone	113	116	P/P	40 - 150
2063321	Aldicarb Sulfoxide	60.7	63.1	P/P	40 - 150
2063321	Carbaryl	72.8	72.4	P/P	40 - 150
2063321	Carbofuran	69.5	70.0	P/P	40 - 150
2063321	Methiocarb	74.5	64.4	P/P	40 - 150
2063321	Methomyl	90.3	97.4	P/P	40 - 150
2063321	Oxamyl	100	86.5	P/P	40 - 150
2063321	Propoxur	67.9	72.5	P/P	40 - 150
2063322	2,4-D	104	104	P/P	40 - 150
2063322	Acetaminophen	125	125	P/P	30 - 150
2063322	Bentazon	90.8	105	P/P	30 - 150
2063322	Carbamazepine	81.5	84.8	P/P	40 - 150
2063322	Diuron	69.4	81.9	P/P	40 - 150
2063322	Fenuron	88.7	86.9	P/P	40 - 150
2063322	Fluridone	113	122	P/P	40 - 150
2063322	Hydrocodone	100	117	P/P	40 - 150
2063322	Ibuprofen	86.0	73.8	P/P	40 - 150
2063322	Imazapyr	130	149	P/P	40 - 150
2063322	Imidacloprid	202	215	F/F	40 - 150
2063322	Linuron	72.5	82.3	P/P	40 - 150
2063322	MCPP	130	140	P/P	40 - 150
2063322	Naproxen	87.2	87.2	P/P	40 - 150
2063322	Primidone	104	109	P/P	40 - 150
2063322	Pyraclostrobin	72.1	69.5	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P359132

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2063322	Triclopyr	85.8	86.3	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P359602

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2063522	Fluoride	97.2	98.4	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P359592

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2063531	Organic Carbon	94.2	93.5	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P359255

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2063712	Turbidity	0.568	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P359259

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2063713	Turbidity	2.99	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P359260

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2063715	Turbidity	3.90	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P359261

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2063716	Turbidity	1.96	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P359691

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2063940	Calcium	1.96	Spike	P	0 - 20
2063940	Iron	0.563	Spike	P	0 - 20
2063940	Magnesium	0.339	Spike	P	0 - 20
2063940	Potassium	0.756	Spike	P	0 - 20
2063940	Sodium	2.27	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P359328

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2063961	Arsenic	0.172	Spike	P	0 - 20
2063961	Cadmium	0.623	Spike	P	0 - 20
2063961	Chromium	0.546	Spike	P	0 - 20
2063961	Copper	0.395	Spike	P	0 - 20
2063961	Lead	0.303	Spike	P	0 - 20
2063961	Nickel	0.254	Spike	P	0 - 20
2063961	Silver	0.179	Spike	P	0 - 20
2063961	Zinc	0.376	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359816

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2063525	Chloride	0.808	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359818

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2063525	Sulfate	0.371	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P359547

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2063720	Ammonia-N	1.03	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359371

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2063530	Kjeldahl Nitrogen	4.21	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359373

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2063720	Kjeldahl Nitrogen	1.00	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359516

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2063718	NO2NO3-N	0.360	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P359309

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2063786	Total-P	2.94	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P359280

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2063732	O-Phosphate-P	0.0832	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 8270D
Batch ID: P359283

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2064059	Aldrin	1.75	Spike	P	0 - 30
2064059	Alpha-BHC	0.898	Spike	P	0 - 30
2064059	Alpha-Chlordane	5.89	Spike	P	0 - 30
2064059	Beta-BHC	15.6	Spike	P	0 - 30
2064059	Carbophenothion	2.66	Spike	P	0 - 30
2064059	Chlorothalonil	48.4	Spike	F	0 - 30
2064059	Cypermethrin	3.57	Spike	P	0 - 30
2064059	DDD-p,p'	9.85	Spike	P	0 - 30
2064059	DDE-p,p'	6.59	Spike	P	0 - 30
2064059	DDT-p,p'	4.92	Spike	P	0 - 30
2064059	Delta-BHC	14.8	Spike	P	0 - 30
2064059	Dicofol	9.85	Spike	P	0 - 30
2064059	Dieldrin	7.24	Spike	P	0 - 30
2064059	Endosulfan I	0.709	Spike	P	0 - 30
2064059	Endosulfan II	9.51	Spike	P	0 - 30
2064059	Endosulfan Sulfate	0.141	Spike	P	0 - 30
2064059	Endrin	7.75	Spike	P	0 - 30
2064059	Endrin Aldehyde	21.7	Spike	P	0 - 30
2064059	Endrin Ketone	11.1	Spike	P	0 - 30
2064059	Gamma-BHC	5.77	Spike	P	0 - 30
2064059	Gamma-Chlordane	6.18	Spike	P	0 - 30
2064059	Heptachlor	2.24	Spike	P	0 - 30
2064059	Heptachlor Epoxide	4.02	Spike	P	0 - 30
2064059	Methoxychlor	23.7	Spike	P	0 - 30
2064059	Mirex	9.81	Spike	P	0 - 30
2064059	Permethrin	2.54	Spike	P	0 - 30
2064059	Trifluralin	0.120	Spike	P	0 - 30
LFB	Aldrin	5.02	LCS	P	0 - 30
LFB	Alpha-BHC	10.8	LCS	P	0 - 30
LFB	Alpha-Chlordane	4.01	LCS	P	0 - 30
LFB	Beta-BHC	0.853	LCS	P	0 - 30
LFB	Carbophenothion	7.17	LCS	P	0 - 30
LFB	Chlorothalonil	2.55	LCS	P	0 - 30
LFB	Cypermethrin	10.2	LCS	P	0 - 30
LFB	DDD-p,p'	2.96	LCS	P	0 - 30
LFB	DDE-p,p'	4.31	LCS	P	0 - 30
LFB	DDT-p,p'	5.15	LCS	P	0 - 30
LFB	Delta-BHC	1.46	LCS	P	0 - 30
LFB	Dicofol	10.6	LCS	P	0 - 30
LFB	Dieldrin	4.86	LCS	P	0 - 30
LFB	Endosulfan I	3.82	LCS	P	0 - 30
LFB	Endosulfan II	1.26	LCS	P	0 - 30
LFB	Endosulfan Sulfate	2.48	LCS	P	0 - 30
LFB	Endrin	9.32	LCS	P	0 - 30
LFB	Endrin Aldehyde	1.98	LCS	P	0 - 30
LFB	Endrin Ketone	0.904	LCS	P	0 - 30
LFB	Gamma-BHC	10.3	LCS	P	0 - 30
LFB	Gamma-Chlordane	2.39	LCS	P	0 - 30
LFB	Heptachlor	4.95	LCS	P	0 - 30
LFB	Heptachlor Epoxide	3.86	LCS	P	0 - 30
LFB	Methoxychlor	4.83	LCS	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270D
Batch ID: P359283

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Mirex	1.58	LCS	P	0 - 30
LFB	Permethrin	2.32	LCS	P	0 - 30
LFB	Trifluralin	4.62	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P359412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2063768	Acetochlor	8.86	Spike	P	0 - 30
2063768	Alachlor	7.40	Spike	P	0 - 30
2063768	Ametryn	11.6	Spike	P	0 - 30
2063768	Atrazine	11.0	Spike	P	0 - 30
2063768	Atrazine Desethyl	3.15	Spike	P	0 - 30
2063768	Azinphos Methyl	7.88	Spike	P	0 - 30
2063768	Bromacil	7.65	Spike	P	0 - 30
2063768	Butylate	15.0	Spike	P	0 - 30
2063768	Chlorpyrifos Ethyl	6.78	Spike	P	0 - 30
2063768	Chlorpyrifos Methyl	10.5	Spike	P	0 - 30
2063768	Cyanazine	10.8	Spike	P	0 - 30
2063768	Demeton	2.53	Spike	P	0 - 30
2063768	Diazinon	4.95	Spike	P	0 - 30
2063768	Dimethenamid	9.89	Spike	P	0 - 30
2063768	Disulfoton	9.06	Spike	P	0 - 30
2063768	Dithiopyr	5.27	Spike	P	0 - 30
2063768	EPTC	13.6	Spike	P	0 - 30
2063768	Ethion	9.53	Spike	P	0 - 30
2063768	Ethoprop	9.35	Spike	P	0 - 30
2063768	Fenamiphos	5.68	Spike	P	0 - 30
2063768	Fipronil	7.77	Spike	P	0 - 30
2063768	Fipronil Desulfinyl	4.05	Spike	P	0 - 30
2063768	Fipronil Sulfide	1.95	Spike	P	0 - 30
2063768	Fipronil Sulfone	9.08	Spike	P	0 - 30
2063768	Fonofos	12.4	Spike	P	0 - 30
2063768	Hexazinone	8.83	Spike	P	0 - 30
2063768	Malathion	6.85	Spike	P	0 - 30
2063768	Metalaxyl	6.99	Spike	P	0 - 30
2063768	Metolachlor	7.13	Spike	P	0 - 30
2063768	Metribuzin	7.86	Spike	P	0 - 30
2063768	Mevinphos	12.6	Spike	P	0 - 30
2063768	Molinate	1.06	Spike	P	0 - 30
2063768	Norflurazon	4.90	Spike	P	0 - 30
2063768	Oxadiazon	12.3	Spike	P	0 - 30
2063768	Parathion Ethyl	8.83	Spike	P	0 - 30
2063768	Parathion Methyl	7.52	Spike	P	0 - 30
2063768	Pendimethalin	2.40	Spike	P	0 - 30
2063768	Phorate	4.66	Spike	P	0 - 30
2063768	Prodiamine	14.2	Spike	P	0 - 30
2063768	Prometon	7.27	Spike	P	0 - 30
2063768	Prometryn	14.4	Spike	P	0 - 30
2063768	Simazine	11.4	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270D
Batch ID: P359412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2063768	Tebuconazole	2.99	Spike	P	0 - 30
2063768	Terbufos	12.2	Spike	P	0 - 30
2063768	Terbuthylazine	12.0	Spike	P	0 - 30
LFB	Acetochlor	10.0	LCS	P	0 - 30
LFB	Alachlor	9.12	LCS	P	0 - 30
LFB	Ametryn	15.0	LCS	P	0 - 30
LFB	Atrazine	3.69	LCS	P	0 - 30
LFB	Atrazine Desethyl	0.324	LCS	P	0 - 30
LFB	Azinphos Methyl	4.94	LCS	P	0 - 30
LFB	Bromacil	11.5	LCS	P	0 - 30
LFB	Butylate	13.4	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	11.4	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	10.3	LCS	P	0 - 30
LFB	Cyanazine	3.75	LCS	P	0 - 30
LFB	Demeton	11.8	LCS	P	0 - 30
LFB	Diazinon	10.4	LCS	P	0 - 30
LFB	Dimethenamid	9.87	LCS	P	0 - 30
LFB	Disulfoton	21.2	LCS	P	0 - 30
LFB	Dithiopyr	12.0	LCS	P	0 - 30
LFB	EPTC	16.6	LCS	P	0 - 30
LFB	Ethion	12.3	LCS	P	0 - 30
LFB	Ethoprop	11.3	LCS	P	0 - 30
LFB	Fenamiphos	9.07	LCS	P	0 - 30
LFB	Fipronil	4.21	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	7.04	LCS	P	0 - 30
LFB	Fipronil Sulfide	9.15	LCS	P	0 - 30
LFB	Fipronil Sulfone	11.5	LCS	P	0 - 30
LFB	Fonofos	14.7	LCS	P	0 - 30
LFB	Hexazinone	10.4	LCS	P	0 - 30
LFB	Malathion	12.2	LCS	P	0 - 30
LFB	Metalaxyl	9.52	LCS	P	0 - 30
LFB	Metolachlor	10.0	LCS	P	0 - 30
LFB	Metribuzin	7.38	LCS	P	0 - 30
LFB	Mevinphos	13.0	LCS	P	0 - 30
LFB	Molinate	12.2	LCS	P	0 - 30
LFB	Norflurazon	5.90	LCS	P	0 - 30
LFB	Oxadiazon	13.1	LCS	P	0 - 30
LFB	Parathion Ethyl	8.45	LCS	P	0 - 30
LFB	Parathion Methyl	13.2	LCS	P	0 - 30
LFB	Pendimethalin	15.6	LCS	P	0 - 30
LFB	Phorate	12.2	LCS	P	0 - 30
LFB	Prodiamine	11.8	LCS	P	0 - 30
LFB	Prometon	5.99	LCS	P	0 - 30
LFB	Prometryn	11.3	LCS	P	0 - 30
LFB	Simazine	12.5	LCS	P	0 - 30
LFB	Tebuconazole	5.18	LCS	P	0 - 30
LFB	Terbufos	14.5	LCS	P	0 - 30
LFB	Terbuthylazine	13.5	LCS	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8276
Batch ID: P359283

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2064415	Chlordane	4.89	Spike	P	0 - 30
2064415	Toxaphene	12.3	Spike	P	0 - 30
LFB	Chlordane	10.7	LCS	P	0 - 30
LFB	Toxaphene	15.2	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P358980

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2062987	Acesulfame K	0.222	Spike	P	0 - 30
2062987	AMPA	0.353	Spike	P	0 - 30
2062987	Endothall	0.0242	Spike	P	0 - 30
2062987	Glufosinate	8.12	Spike	P	0 - 30
2062987	Glyphosate	5.80	Spike	P	0 - 30
2062987	Sucralose	1.44	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P359132

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2063321	3-Hydroxycarbofuran	11.6	Spike	P	0 - 30
2063321	Aldicarb	0.660	Spike	P	0 - 30
2063321	Aldicarb Sulfone	2.18	Spike	P	0 - 30
2063321	Aldicarb Sulfoxide	3.86	Spike	P	0 - 30
2063321	Carbaryl	0.443	Spike	P	0 - 30
2063321	Carbofuran	0.634	Spike	P	0 - 30
2063321	Methiocarb	14.5	Spike	P	0 - 30
2063321	Methomyl	7.49	Spike	P	0 - 30
2063321	Oxamyl	14.4	Spike	P	0 - 30
2063321	Propoxur	6.62	Spike	P	0 - 30
2063322	2,4-D	0.0714	Spike	P	0 - 30
2063322	Acetaminophen	0.329	Spike	P	0 - 30
2063322	Bentazon	9.96	Spike	P	0 - 30
2063322	Carbamazepine	3.92	Spike	P	0 - 30
2063322	Diuron	15.6	Spike	P	0 - 30
2063322	Fenuron	1.95	Spike	P	0 - 30
2063322	Fluridone	6.46	Spike	P	0 - 30
2063322	Hydrocodone	15.6	Spike	P	0 - 30
2063322	Ibuprofen	15.3	Spike	P	0 - 30
2063322	Imazapyr	8.26	Spike	P	0 - 30
2063322	Imidacloprid	5.85	Spike	P	0 - 30
2063322	Linuron	12.7	Spike	P	0 - 30
2063322	MCPP	7.54	Spike	P	0 - 30
2063322	Naproxen	0.00172	Spike	P	0 - 30
2063322	Primidone	4.77	Spike	P	0 - 30
2063322	Pyraclostrobin	3.61	Spike	P	0 - 30
2063322	Triclopyr	0.627	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: SM 2120 B
Batch ID: P359245

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2063779	Color (true)	3.71	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P359249

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2063733	Color (true)	1.69	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P359598

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2063522	Total Alkalinity	0.263	Sample	P	0 - 1.6

Reference Method: SM 2540 C-97
Batch ID: P359698

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2063781	TDS	3.85	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P359699

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2063952	TDS	7.34	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P359602

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2063522	Fluoride	0.940	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
Batch ID: P359592

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2063531	Organic Carbon	0.719	Spike	P	0 - 20

* 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: 2063759
Field Sample ID: G3WA0009

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	89.3	P	30 - 160
EPA 8321B	Acetaminophen-d4	106	P	30 - 160
EPA 8321B	Carbamazepine-d10	60.8	P	30 - 160
EPA 8321B	Diuron-d6	51.0	P	30 - 160
EPA 8321B	Endothall-d6	100	P	40 - 160
EPA 8321B	Endothall-d6	100	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	90.1	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	90.1	P	40 - 160
EPA 8321B	Ibuprofen-d3	62.2	P	30 - 160
EPA 8321B	Primidone-d5	84.0	P	30 - 160
EPA 8321B	Sucralose-d6	109	P	40 - 160
EPA 8321B	Sucralose-d6	109	P	40 - 160

Lab Sample ID: 2063760
Field Sample ID: G3WA0004

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	80.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	117	P	30 - 160
EPA 8321B	Carbamazepine-d10	56.6	P	30 - 160
EPA 8321B	Diuron-d6	51.1	P	30 - 160
EPA 8321B	Endothall-d6	107	P	40 - 160
EPA 8321B	Endothall-d6	107	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	90.2	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	90.2	P	40 - 160
EPA 8321B	Ibuprofen-d3	63.7	P	30 - 160
EPA 8321B	Primidone-d5	86.5	P	30 - 160
EPA 8321B	Sucralose-d6	104	P	40 - 160
EPA 8321B	Sucralose-d6	104	P	40 - 160

Lab Sample ID: 2063761
Field Sample ID: G3WA0011

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	83.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	94.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	54.9	P	30 - 160
EPA 8321B	Diuron-d6	50.9	P	30 - 160
EPA 8321B	Endothall-d6	112	P	40 - 160
EPA 8321B	Endothall-d6	112	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	75.4	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	75.4	P	40 - 160
EPA 8321B	Ibuprofen-d3	67.9	P	30 - 160
EPA 8321B	Primidone-d5	76.0	P	30 - 160
EPA 8321B	Sucralose-d6	107	P	40 - 160
EPA 8321B	Sucralose-d6	107	P	40 - 160

Lab Sample ID: 2063762
Field Sample ID: G3WA0010

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	86.8	P	30 - 160

Quality Assurance Report
Surrogates

Lab Sample ID: 2063762
Field Sample ID: G3WA0010

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	86.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	53.7	P	30 - 160
EPA 8321B	Diuron-d6	48.0	P	30 - 160
EPA 8321B	Endothall-d6	110	P	40 - 160
EPA 8321B	Endothall-d6	110	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	84.3	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	84.3	P	40 - 160
EPA 8321B	Ibuprofen-d3	72.7	P	30 - 160
EPA 8321B	Primidone-d5	71.6	P	30 - 160
EPA 8321B	Sucralose-d6	108	P	40 - 160
EPA 8321B	Sucralose-d6	108	P	40 - 160

Lab Sample ID: 2063763
Field Sample ID: G3WA0013

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	80.0	P	30 - 160
EPA 8321B	Acetaminophen-d4	107	P	30 - 160
EPA 8321B	Carbamazepine-d10	58.6	P	30 - 160
EPA 8321B	Diuron-d6	46.7	P	30 - 160
EPA 8321B	Endothall-d6	105	P	40 - 160
EPA 8321B	Endothall-d6	105	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	80.3	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	80.3	P	40 - 160
EPA 8321B	Ibuprofen-d3	68.7	P	30 - 160
EPA 8321B	Primidone-d5	76.9	P	30 - 160
EPA 8321B	Sucralose-d6	106	P	40 - 160
EPA 8321B	Sucralose-d6	106	P	40 - 160

Lab Sample ID: 2063764
Field Sample ID: G3WA0006

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	82.3	P	30 - 160
EPA 8321B	Acetaminophen-d4	111	P	30 - 160
EPA 8321B	Carbamazepine-d10	50.5	P	30 - 160
EPA 8321B	Diuron-d6	48.9	P	30 - 160
EPA 8321B	Endothall-d6	103	P	40 - 160
EPA 8321B	Endothall-d6	103	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	79.6	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	79.6	P	40 - 160
EPA 8321B	Ibuprofen-d3	70.0	P	30 - 160
EPA 8321B	Primidone-d5	63.3	P	30 - 160
EPA 8321B	Sucralose-d6	98.6	P	40 - 160
EPA 8321B	Sucralose-d6	98.6	P	40 - 160

Lab Sample ID: 2063765
Field Sample ID: G3WA0005

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	41.2	P	30 - 160

Quality Assurance Report
Surrogates

Lab Sample ID: 2063766
Field Sample ID: G3WA0005

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	84.0	P	30 - 160
EPA 8321B	Acetaminophen-d4	100	P	30 - 160
EPA 8321B	Carbamazepine-d10	58.4	P	30 - 160
EPA 8321B	Diuron-d6	49.2	P	30 - 160
EPA 8321B	Endothall-d6	104	P	40 - 160
EPA 8321B	Endothall-d6	104	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	76.5	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	76.5	P	40 - 160
EPA 8321B	Ibuprofen-d3	75.2	P	30 - 160
EPA 8321B	Primidone-d5	83.3	P	30 - 160
EPA 8321B	Sucralose-d6	101	P	40 - 160
EPA 8321B	Sucralose-d6	101	P	40 - 160

Lab Sample ID: 2063767
Field Sample ID: G3WA0005

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	61.2	P	39 - 109
EPA 8270D	Tetrachloro-m-xylene	45.6	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	41.4	P	30 - 103
EPA 8276	PCNB	63.7	P	37 - 143

Lab Sample ID: 2063768
Field Sample ID: G3WA0005

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	93.3	P	68 - 130
EPA 8270D	Terbufos-d10	90.0	P	61 - 136

Quality Assurance Report
Calibration Verification

Reference Method: SM 2120 B
Run ID: A89535
Included Lab Sample IDs: 2063712, 2063713, 2063714, 2063715, 2063716, 2063717, 2063730, 2063733

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.5	98.7	P/P	85 - 115
Color (true)	99.3	97.6	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A89537
Included Lab Sample IDs: 2063712, 2063713, 2063714, 2063715, 2063716, 2063717, 2063730, 2063733

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	101	P/P	95 - 105
Turbidity	101	100	P/P	95 - 105
Turbidity	101	101	P/P	95 - 105
Turbidity	99.5	101	P/P	95 - 105

Reference Method: EPA 8321B
Run ID: A89547
Included Lab Sample IDs: 2063759, 2063760, 2063761, 2063762, 2063763, 2063764, 2063766

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	78.1	79.3	P/P	60 - 160
AMPA	84.7	78.1	P/P	60 - 160
Glufosinate	105	102	P/P	60 - 160
Glufosinate	99.5	105	P/P	60 - 160
Glyphosate	101	99.1	P/P	60 - 160
Glyphosate	110	101	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A89552
Included Lab Sample IDs: 2063724, 2063725, 2063726, 2063727, 2063728, 2063729, 2063732, 2063735

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.9	97.9	P/P	90 - 110
O-Phosphate-P	99.7	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A89588
Included Lab Sample IDs: 2063718, 2063719, 2063720, 2063721, 2063722, 2063723, 2063731, 2063734

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

Reference Method: EPA 8321B
Run ID: A89599
Included Lab Sample IDs: 2063759, 2063760, 2063761, 2063762, 2063763, 2063764, 2063766

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	93.9	99.4	P/P	60 - 160
Sucralose	99.4	101	P/P	60 - 160

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Reference Method: EPA 8321B
Run ID: A89610
Included Lab Sample IDs: 2063759, 2063760, 2063761, 2063762, 2063763, 2063764, 2063766

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	95.5	92.3	P/P	50 - 150
3-Hydroxycarbofuran	95.7	106	P/P	60 - 150
Acetaminophen	113	107	P/P	60 - 160
Aldicarb	82.1	87.8	P/P	60 - 150
Aldicarb Sulfone	110	101	P/P	50 - 150
Bentazon	79.2	69.6	P/P	50 - 160
Carbamazepine	98.8	99.8	P/P	60 - 150
Carbaryl	109	93.3	P/P	60 - 150
Carbofuran	101	105	P/P	50 - 150
Diuron	105	109	P/P	60 - 150
Fenuron	105	98.9	P/P	60 - 150
Fluridone	104	103	P/P	60 - 160
Hydrocodone	96.3	98.0	P/P	60 - 150
Ibuprofen	79.9	78.2	P/P	50 - 160
Imazapyr	98.7	106	P/P	50 - 150
Imidacloprid	95.4	103	P/P	60 - 150
Linuron	105	107	P/P	60 - 150
MCPP	104	102	P/P	50 - 150
Methiocarb	103	105	P/P	50 - 150
Methomyl	112	107	P/P	50 - 150
Naproxen	116	66.4	P/P	50 - 160
Oxamyl	105	98.7	P/P	50 - 150
Primidone	100	103	P/P	60 - 150
Propoxur	105	108	P/P	50 - 150
Pyraclostrobin	99.3	99.2	P/P	60 - 150
Triclopyr	107	102	P/P	50 - 150

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A89648
Included Lab Sample IDs: 2063769

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	103	103	P/P	90 - 110
Cadmium	101	102	P/P	90 - 110
Chromium	102	105	P/P	90 - 110
Copper	108	107	P/P	90 - 110
Lead	104	103	P/P	90 - 110
Nickel	103	104	P/P	90 - 110
Silver	98.0	98.4	P/P	90 - 110
Zinc	103	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A89651
Included Lab Sample IDs: 2063718, 2063719, 2063720, 2063721, 2063722, 2063723, 2063731, 2063734

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.5	99.0	P/P	90 - 110

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Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A89666
Included Lab Sample IDs: 2063718, 2063719, 2063720, 2063721, 2063722, 2063723, 2063731, 2063734

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	99.3	P/P	90 - 110
Ammonia-N	102	102	P/P	90 - 110
Ammonia-N	99.3	102	P/P	90 - 110

Reference Method: EPA 8276
Run ID: A89673
Included Lab Sample IDs: 2063767

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	94.8		P	80 - 120
Toxaphene	95.2		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A89674
Included Lab Sample IDs: 2063712, 2063713, 2063714, 2063715, 2063716, 2063717, 2063730, 2063733

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

Reference Method: EPA 8321B
Run ID: A89676
Included Lab Sample IDs: 2063759, 2063760, 2063761, 2063762, 2063763, 2063764

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	91.8	118	P/P	60 - 160
Endothall	104	94.2	P/P	60 - 160

Reference Method: SM 2320 B-97
Run ID: A89680
Included Lab Sample IDs: 2063712, 2063713, 2063714, 2063715, 2063716, 2063717, 2063730, 2063733

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	100	102	P/P	90 - 110
Total Alkalinity	102	100	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Run ID: A89680
Included Lab Sample IDs: 2063712, 2063713, 2063714, 2063715, 2063716, 2063717, 2063730, 2063733

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	98.6	P/P	90 - 110
Fluoride	98.6	98.5	P/P	90 - 110

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Calibration Verification

Reference Method: EPA 8270D
Run ID: A89684
Included Lab Sample IDs: 2063768

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	97.3		P	80 - 120
Alachlor	97.6		P	80 - 120
Ametryn	102		P	80 - 120
Atrazine	91.2		P	80 - 120
Atrazine Desethyl	97.0		P	80 - 120
Azinphos Methyl	106		P	80 - 120
Bromacil	96.6		P	80 - 120
Butylate	97.1		P	80 - 120
Chlorpyrifos Ethyl	101		P	80 - 120
Chlorpyrifos Methyl	98.0		P	80 - 120
Cyanazine	96.4		P	80 - 120
Demeton	100		P	80 - 120
Diazinon	99.1		P	80 - 120
Dimethenamid	98.4		P	80 - 120
Disulfoton	98.6		P	80 - 120
Dithiopyr	97.4		P	80 - 120
EPTC	99.5		P	80 - 120
Ethion	98.2		P	80 - 120
Ethoprop	99.9		P	80 - 120
Fenamiphos	96.9		P	80 - 120
Fipronil	96.4		P	80 - 120
Fipronil Desulfinyl	99.2		P	80 - 120
Fipronil Sulfide	92.0		P	80 - 120
Fipronil Sulfone	97.7		P	80 - 120
Fonofos	94.9		P	80 - 120
Hexazinone	98.8		P	80 - 120
Malathion	97.6		P	80 - 120
Metalaxyl	100		P	80 - 120
Metolachlor	100		P	80 - 120
Metribuzin	87.2		P	80 - 120
Mevinphos	101		P	80 - 120
Molinate	96.0		P	80 - 120
Norflurazon	96.0		P	80 - 120
Oxadiazon	99.8		P	80 - 120
Parathion Ethyl	95.8		P	80 - 120
Parathion Methyl	96.8		P	80 - 120
Pendimethalin	95.0		P	80 - 120
Phorate	96.1		P	80 - 120
Prodiamine	98.3		P	80 - 120
Prometon	95.4		P	80 - 120
Prometryn	96.7		P	80 - 120
Simazine	107		P	80 - 120
Tebuconazole	96.4		P	80 - 120
Terbufos	98.6		P	80 - 120
Terbuthylazine	97.1		P	80 - 120

Reference Method: SM 5310 B-00
Run ID: A89685
Included Lab Sample IDs: 2063718, 2063719, 2063720, 2063721, 2063722, 2063723, 2063731, 2063734

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits

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Calibration Verification

Reference Method: SM 5310 B-00
Run ID: A89685
Included Lab Sample IDs: 2063718, 2063719, 2063720, 2063721, 2063722, 2063723, 2063731, 2063734

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	92.6	92.9	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A89686
Included Lab Sample IDs: 2063766

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	118	116	P/P	60 - 160
Endothall	94.2	96.3	P/P	60 - 160

Reference Method: EPA 8270D
Run ID: A89689
Included Lab Sample IDs: 2063767

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	91.0		P	80 - 120
Alpha-BHC	96.1		P	80 - 120
Alpha-Chlordane	91.8		P	80 - 120
Beta-BHC	87.9		P	80 - 120
Carbophenothion	104		P	80 - 120
Chlorothalonil	83.0		P	80 - 120
Cypermethrin	82.1		P	80 - 120
DDD-p,p'	91.6		P	80 - 120
DDE-p,p'	92.7		P	80 - 120
DDT-p,p'	102		P	80 - 120
Delta-BHC	89.1		P	80 - 120
Dicofol	95.5		P	80 - 120
Dieldrin	92.2		P	80 - 120
Endosulfan I	92.0		P	80 - 120
Endosulfan II	86.2		P	80 - 120
Endosulfan Sulfate	90.8		P	80 - 120
Endrin	88.7		P	80 - 120
Endrin Aldehyde	85.4		P	80 - 120
Endrin Ketone	90.9		P	80 - 120
Gamma-BHC	95.1		P	80 - 120
Gamma-Chlordane	89.2		P	80 - 120
Heptachlor	89.8		P	80 - 120
Heptachlor Epoxide	91.5		P	80 - 120
Methoxychlor	96.3		P	80 - 120
Mirex	95.6		P	80 - 120
Permethrin	83.8		P	80 - 120
Trifluralin	93.5		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A89694
Included Lab Sample IDs: 2063718, 2063719, 2063720, 2063721, 2063722, 2063723, 2063731, 2063734

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	100	P/P	90 - 110
Kjeldahl Nitrogen	100	97.8	P/P	90 - 110

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Reference Method: EPA 200.7 Rev. 4.4
Run ID: A89758
Included Lab Sample IDs: 2063769

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	103	103	P/P	95 - 105
Iron	102	101	P/P	95 - 105
Magnesium	102	102	P/P	95 - 105
Potassium	98.2	97.7	P/P	95 - 105
Sodium	101	98.9	P/P	95 - 105

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

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			Precision		
							LCS	SMP	MS
EPA 180.1 Rev. 2.0	Turbidity							0.568	
	Turbidity							2.99	
	Turbidity							3.90	
	Turbidity							1.96	
EPA 200.7 Rev. 4.4	Calcium	105		103	105	102			1.96
	Iron	103		103	104	103			0.563
	Magnesium	103		103	104	102			0.339
	Potassium	99.1		101	102	99.3			0.756
	Sodium	101		98.6	101	98.3			2.27
EPA 200.8 Rev. 5.4	Arsenic	108		106	110	110			0.172
	Cadmium	108		107	110	109			0.623
	Chromium	109		106	110	110			0.546
	Copper	110		109	110	110			0.395
	Lead	107		106	109	108			0.303
	Nickel	108		105	106	106			0.254
	Silver	104		102	105	105			0.179
	Zinc	108		105	106	106			0.376
EPA 300.0 Rev. 2.1	Chloride	103		102	97.3			0.808	
	Sulfate	103		101	103			0.371	
EPA 350.1 Rev. 2.0	Ammonia-N	98.7		99.7	98.1				1.03
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102		109	104				4.21
	Kjeldahl Nitrogen	99.2		104	103				1.00
EPA 353.2 Rev. 2.0	NO2NO3-N	99.0		99.2	98.6				0.360
EPA 365.1 Rev. 2.0	Total-P	102		102	105				2.94
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.1		95.2	95.3				0.0832
EPA 8270D	Acetochlor	90.6	100	97.2	108		10.0		8.86
	Alachlor	89.4	98.0	86.9	93.6		9.12		7.40
	Aldrin	69.3	65.9	70.8	72.1		5.02		1.75
	Alpha-BHC	121	108	121	120		10.8		0.898
	Alpha-Chlordane	91.1	87.5	97.0	91.5		4.01		5.89
	Ametryn	86.7	101	96.4	108		15.0		11.6
	Atrazine	88.1	91.4	93.5	104		3.69		11.0
	Atrazine Desethyl	77.8	78.0	76.9	74.5		0.324		3.15
	Azinphos Methyl	109	115	107	116		4.94		7.88
	Beta-BHC	143	142	182	155		0.853		15.6
	Bromacil	71.3	79.9	77.3	83.4		11.5		7.65
	Butylate	52.2	59.7	52.0	44.7		13.4		15.0
	Carbophenothion	103	111	131	128		7.17		2.66
	Chlorothalonil	117	114	126	76.9		2.55		48.4
	Chlorpyrifos Ethyl	91.8	103	96.5	103		11.4		6.78
	Chlorpyrifos Methyl	88.6	98.2	84.5	93.9		10.3		10.5
	Cyanazine	93.1	96.6	79.3	88.3		3.75		10.8
	Cypermethrin	80.6	89.3	82.5	79.6		10.2		3.57
	DDD-p,p'	105	102	115	104		2.96		9.85
	DDE-p,p'	91.2	87.3	98.1	91.9		4.31		6.59
	DDT-p,p'	111	105	117	112		5.15		4.92
	Delta-BHC	148	146	188	162		1.46		14.8
	Demeton	81.5	91.7	47.5	48.7		11.8		2.53
	Diazinon	87.5	97.2	86.3	90.6		10.4		4.95
	Dicofol	108	97.2	109	120		10.6		9.85
	Dieldrin	98.9	94.3	103	95.4		4.86		7.24
	Dimethenamid	90.2	99.6	88.5	97.7		9.87		9.89
	Disulfoton	84.3	104	87.1	95.4		21.2		9.06
	Dithiopyr	87.0	98.2	86.5	91.2		12.0		5.27

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision		
						LCS	SMP	MS
EPA 8270D	Endosulfan I	97.0	93.4	97.4	96.7	3.82		0.709
	Endosulfan II	106	107	114	103	1.26		9.51
	Endosulfan Sulfate	92.3	94.7	99.7	99.8	2.48		0.141
	Endrin	103	93.9	107	98.7	9.32		7.75
	Endrin Aldehyde	109	107	106	84.9	1.98		21.7
	Endrin Ketone	94.3	93.4	98.9	88.6	0.904		11.1
	EPTC	51.0	60.2	43.4	37.9	16.6		13.6
	Ethion	81.9	92.7	92.2	101	12.3		9.53
	Ethoprop	84.8	95.0	88.7	97.5	11.3		9.35
	Fenamiphos	75.0	82.2	77.5	82.0	9.07		5.68
	Fipronil	71.4	74.5	79.5	86.0	4.21		7.77
	Fipronil Desulfinyl	59.3	63.6	66.2	69.0	7.04		4.05
	Fipronil Sulfide	59.7	65.5	78.7	80.2	9.15		1.95
	Fipronil Sulfone	66.0	74.0	82.5	75.3	11.5		9.08
	Fonofos	82.1	95.2	84.8	96.0	14.7		12.4
	Gamma-BHC	137	124	141	133	10.3		5.77
	Gamma-Chlordane	88.4	86.3	95.0	89.3	2.39		6.18
	Heptachlor	75.5	71.9	72.7	74.3	4.95		2.24
	Heptachlor Epoxide	94.5	90.9	97.5	93.6	3.86		4.02
	Hexazinone	90.0	99.9	97.0	107	10.4		8.83
	Malathion	91.6	103	101	108	12.2		6.85
	Metalaxyl	86.6	95.3	87.4	93.7	9.52		6.99
	Methoxychlor	128	122	116	91.5	4.83		23.7
	Metolachlor	89.2	98.7	90.5	97.8	10.0		7.13
	Metribuzin	151	163	153	166	7.38		7.86
	Mevinphos	75.7	86.2	84.7	96.0	13.0		12.6
	Mirex	66.4	65.3	61.9	56.1	1.58		9.81
	Molinate	67.6	76.3	70.3	71.0	12.2		1.06
	Norflurazon	79.4	84.2	84.5	88.7	5.90		4.90
	Oxadiazon	78.2	89.1	84.7	95.8	13.1		12.3
	Parathion Ethyl	83.6	90.9	82.2	89.8	8.45		8.83
	Parathion Methyl	96.6	110	101	109	13.2		7.52
	Pendimethalin	80.9	94.6	91.8	94.0	15.6		2.40
	Permethrin	74.8	76.5	81.4	79.4	2.32		2.54
	Phorate	94.5	107	78.2	81.9	12.2		4.66
	Prodiamine	77.0	86.6	87.6	101	11.8		14.2
	Prometon	76.7	81.4	82.1	88.3	5.99		7.27
	Prometryn	77.4	86.7	80.9	93.4	11.3		14.4
	Simazine	106	120	99.5	112	12.5		11.4
	Tebuconazole	66.5	70.0	92.6	96.6	5.18		2.99
	Terbufos	84.8	98.1	84.3	95.3	14.5		12.2
	Terbuthylazine	85.9	98.4	85.9	96.9	13.5		12.0
	Trifluralin	99.1	94.7	103	103	4.62		0.120
EPA 8276	Chlordane	79.6	88.6	87.6	83.5	10.7		4.89
	Toxaphene	65.0	55.8	65.3	57.7	15.2		12.3
EPA 8321B	2,4-D	78.2		104	104			0.0714
	3-Hydroxycarbofuran	109		109	123			11.6
	Acesulfame K	118		86.1	86.3			0.222
	Acetaminophen	95.1		125	125			0.329
	Aldicarb	65.0		73.1	72.6			0.660
	Aldicarb Sulfone	98.6		113	116			2.18
	Aldicarb Sulfoxide	119		60.7	63.1			3.86
	AMPA	87.8		67.8	67.6			0.353
	Bentazon	115		90.8	105			9.96

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Carbamazepine	92.2	81.5	84.8			3.92
	Carbaryl	81.1	72.8	72.4			0.443
	Carbofuran	81.0	69.5	70.0			0.634
	Diuron	82.7	69.4	81.9			15.6
	Endothall	92.3	94.2	94.2			0.0242
	Fenuron	115	88.7	86.9			1.95
	Fluridone	102	113	122			6.46
	Glufosinate	105	77.8	71.7			8.12
	Glyphosate	100	83.1	77.8			5.80
	Hydrocodone	102	100	117			15.6
	Ibuprofen	88.5	86.0	73.8			15.3
	Imazapyr	102	130	149			8.26
	Imidacloprid	103	202	215			5.85
	Linuron	74.2	72.5	82.3			12.7
	MCPP	99.7	130	140			7.54
	Methiocarb	71.8	74.5	64.4			14.5
	Methomyl	108	90.3	97.4			7.49
	Naproxen	75.6	87.2	87.2			0.0017
	Oxamyl	93.8	100	86.5			14.4
	Primidone	104	104	109			4.77
	Propoxur	89.3	67.9	72.5			6.62
	Pyraclostrobin	69.0	72.1	69.5			3.61
	Sucralose	95.4	98.0	96.5			1.44
	Triclopyr	64.2	85.8	86.3			0.627
SM 2120 B	Color (true)	98.2				3.71	
	Color (true)	97.1				1.69	
SM 2320 B-97	Total Alkalinity	106				0.263	
SM 2540 C-97	TDS					3.85	
	TDS					7.34	
SM 4500 F-C-97	Fluoride	95.6	97.2	98.4			0.940
SM 5310 B-00	Organic Carbon	94.4	94.2	93.5			0.719

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2063712, 2063713, 2063714, 2063715, 2063716, 2063717, 2063730, 2063733
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2063769
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2063769
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2063712, 2063713, 2063714, 2063715, 2063716, 2063717, 2063730, 2063733
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2063712, 2063713, 2063714, 2063715, 2063716, 2063717, 2063730, 2063733
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2063718, 2063719, 2063720, 2063721, 2063722, 2063723, 2063731, 2063734
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2063718, 2063719, 2063720, 2063721, 2063722, 2063723, 2063731, 2063734
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2063718, 2063719, 2063720, 2063721, 2063722, 2063723, 2063731, 2063734
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2063718, 2063719, 2063720, 2063721, 2063722, 2063723, 2063731, 2063734
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2063724, 2063725, 2063726, 2063727, 2063728, 2063729, 2063732, 2063735

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	2063767
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2063768
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2063767
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	2063765
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2063759, 2063760, 2063761, 2063762, 2063763, 2063764, 2063766
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	2063759, 2063760, 2063761, 2063762, 2063763, 2063764, 2063766
SM 2120 B / E31780	True Color measured at 450 nm	2063712, 2063713, 2063714, 2063715, 2063716, 2063717, 2063730, 2063733
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	2063712, 2063713, 2063714, 2063715, 2063716, 2063717, 2063730, 2063733
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2063712, 2063713, 2063714, 2063715, 2063716, 2063717, 2063730, 2063733
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2063712, 2063713, 2063714, 2063715, 2063716, 2063717, 2063730, 2063733
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2063712, 2063713, 2063714, 2063715, 2063716, 2063717, 2063730, 2063733
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2063718, 2063719, 2063720, 2063721, 2063722, 2063723, 2063731, 2063734

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EPA 180.1 Rev. 2.0	02/20/2019			02/20/2019 17:34	Julia Storbeck	2063712, 2063713, 2063714, 2063715, 2063716, 2063717, 2063730, 2063733
EPA 200.7 Rev. 4.4	02/20/2019	02/28/2019 13:45	Elliott D. Healy	03/01/2019 14:10	Betina Topolski	2063769
EPA 200.8 Rev. 5.4	02/20/2019	02/21/2019 17:40	Elliott D. Healy	02/25/2019 20:46	Allison Taylor	2063769
EPA 300.0 Rev. 2.1	02/20/2019			03/01/2019 10:46	Lipi Saha	2063713
	02/20/2019			03/01/2019 11:01	Lipi Saha	2063714
	02/20/2019			03/01/2019 11:15	Lipi Saha	2063715
	02/20/2019			03/01/2019 12:00	Lipi Saha	2063716
	02/20/2019			03/01/2019 12:15	Lipi Saha	2063717
	02/20/2019			03/01/2019 12:29	Lipi Saha	2063730
	02/20/2019			03/01/2019 12:44	Lipi Saha	2063733
	02/20/2019			03/01/2019 15:27	Lipi Saha	2063712
EPA 350.1 Rev. 2.0	02/20/2019			02/25/2019 11:33	Ping Hua	2063720
	02/20/2019			02/25/2019 11:39	Ping Hua	2063731
	02/20/2019			02/25/2019 11:46	Ping Hua	2063734
	02/20/2019			02/25/2019 13:29	Ping Hua	2063718
	02/20/2019			02/25/2019 13:30	Ping Hua	2063719
	02/20/2019			02/25/2019 13:32	Ping Hua	2063721
	02/20/2019			02/25/2019 13:33	Ping Hua	2063722
	02/20/2019			02/25/2019 13:35	Ping Hua	2063723
EPA 351.2 Rev. 2.0	02/20/2019	02/22/2019 11:45	Adrian Shelby	02/27/2019 13:01	Joseph Suarez	2063718
	02/20/2019	02/22/2019 11:45	Adrian Shelby	02/27/2019 13:12	Joseph Suarez	2063719
	02/20/2019	02/22/2019 11:45	Adrian Shelby	02/27/2019 13:14	Joseph Suarez	2063720
	02/20/2019	02/22/2019 11:45	Adrian Shelby	02/27/2019 13:18	Joseph Suarez	2063721
	02/20/2019	02/22/2019 11:45	Adrian Shelby	02/27/2019 13:20	Joseph Suarez	2063722
	02/20/2019	02/22/2019 11:45	Adrian Shelby	02/27/2019 13:21	Joseph Suarez	2063723
	02/20/2019	02/22/2019 11:45	Adrian Shelby	02/27/2019 13:23	Joseph Suarez	2063731
	02/20/2019	02/22/2019 11:45	Adrian Shelby	02/27/2019 13:24	Joseph Suarez	2063734
EPA 353.2 Rev. 2.0	02/20/2019			02/26/2019 09:41	Beverly Y. Sanders	2063718
	02/20/2019			02/26/2019 09:49	Beverly Y. Sanders	2063719
	02/20/2019			02/26/2019 09:50	Beverly Y. Sanders	2063720
	02/20/2019			02/26/2019 09:51	Beverly Y. Sanders	2063721
	02/20/2019			02/26/2019 09:52	Beverly Y. Sanders	2063722
	02/20/2019			02/26/2019 09:53	Beverly Y. Sanders	2063723
	02/20/2019			02/26/2019 09:54	Beverly Y. Sanders	2063731
	02/20/2019			02/26/2019 09:56	Beverly Y. Sanders	2063734
EPA 365.1 Rev. 2.0	02/20/2019	02/21/2019 13:10	Sima Feizi	02/22/2019 11:39	Rosalyn Ballman	2063718
	02/20/2019	02/21/2019 13:10	Sima Feizi	02/22/2019 11:40	Rosalyn Ballman	2063719
	02/20/2019	02/21/2019 13:10	Sima Feizi	02/22/2019 11:41	Rosalyn Ballman	2063720
	02/20/2019	02/21/2019 13:10	Sima Feizi	02/22/2019 11:42	Rosalyn Ballman	2063721

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EPA 365.1 Rev. 2.0	02/20/2019	02/21/2019 13:10	Sima Feizi	02/22/2019 11:44	Rosalyn Ballman	2063722
	02/20/2019	02/21/2019 13:10	Sima Feizi	02/22/2019 11:45	Rosalyn Ballman	2063723
	02/20/2019	02/21/2019 13:10	Sima Feizi	02/22/2019 11:46	Rosalyn Ballman	2063731
	02/20/2019	02/21/2019 13:10	Sima Feizi	02/22/2019 11:47	Rosalyn Ballman	2063734
EPA 365.1 Rev. 2.0 dissolved	02/20/2019			02/20/2019 16:36	Jhamieka S. Greenwood	2063732
	02/20/2019			02/20/2019 17:00	Jhamieka S. Greenwood	2063724
	02/20/2019			02/20/2019 17:01	Jhamieka S. Greenwood	2063725
	02/20/2019			02/20/2019 17:02	Jhamieka S. Greenwood	2063726
	02/20/2019			02/20/2019 17:03	Jhamieka S. Greenwood	2063727, 2063728
	02/20/2019			02/20/2019 17:04	Jhamieka S. Greenwood	2063729
	02/20/2019			02/20/2019 17:05	Jhamieka S. Greenwood	2063735
EPA 8270D	02/20/2019	02/22/2019 09:00	Fe-Val Siddell	02/26/2019 20:55	Dinesh Mishra	2063767
	02/20/2019	02/25/2019 08:10	Dinesh Mishra	02/26/2019 16:06	Vandana T. Nagar	2063768
EPA 8276	02/20/2019	02/22/2019 09:00	Fe-Val Siddell	02/26/2019 08:50	Arthur Maknenko	2063767
EPA 8321B	02/20/2019	02/20/2019 11:00	Rebecca Ware	02/20/2019 13:59	Mohammad Ghaffari	2063759
	02/20/2019	02/20/2019 11:00	Rebecca Ware	02/20/2019 14:10	Mohammad Ghaffari	2063760
	02/20/2019	02/20/2019 11:00	Rebecca Ware	02/20/2019 14:21	Mohammad Ghaffari	2063761
	02/20/2019	02/20/2019 11:00	Rebecca Ware	02/20/2019 14:42	Mohammad Ghaffari	2063762
	02/20/2019	02/20/2019 11:00	Rebecca Ware	02/20/2019 14:53	Mohammad Ghaffari	2063763
	02/20/2019	02/20/2019 11:00	Rebecca Ware	02/20/2019 15:03	Mohammad Ghaffari	2063764
	02/20/2019	02/20/2019 11:00	Rebecca Ware	02/20/2019 15:14	Mohammad Ghaffari	2063766
	02/20/2019	02/20/2019 11:00	Rebecca Ware	02/20/2019 22:01	Rebecca Ware	2063759
	02/20/2019	02/20/2019 11:00	Rebecca Ware	02/20/2019 22:15	Rebecca Ware	2063760
	02/20/2019	02/20/2019 11:00	Rebecca Ware	02/20/2019 22:29	Rebecca Ware	2063761
	02/20/2019	02/20/2019 11:00	Rebecca Ware	02/20/2019 22:43	Rebecca Ware	2063762
	02/20/2019	02/20/2019 11:00	Rebecca Ware	02/20/2019 22:57	Rebecca Ware	2063763
	02/20/2019	02/20/2019 11:00	Rebecca Ware	02/20/2019 23:11	Rebecca Ware	2063764
	02/20/2019	02/20/2019 11:00	Rebecca Ware	02/20/2019 23:38	Rebecca Ware	2063766
	02/20/2019	02/20/2019 11:00	Rebecca Ware	02/22/2019 21:43	Mohammad Ghaffari	2063759
	02/20/2019	02/20/2019 11:00	Rebecca Ware	02/22/2019 21:56	Mohammad Ghaffari	2063760
	02/20/2019	02/20/2019 11:00	Rebecca Ware	02/22/2019 22:09	Mohammad Ghaffari	2063761
	02/20/2019	02/20/2019 11:00	Rebecca Ware	02/22/2019 22:34	Mohammad Ghaffari	2063762
	02/20/2019	02/20/2019 11:00	Rebecca Ware	02/22/2019 22:47	Mohammad Ghaffari	2063763
	02/20/2019	02/20/2019 11:00	Rebecca Ware	02/22/2019 23:00	Mohammad Ghaffari	2063764
	02/20/2019	02/20/2019 11:00	Rebecca Ware	02/22/2019 23:12	Mohammad Ghaffari	2063766
	02/20/2019	02/21/2019 10:00	Hoor Shaik	02/24/2019 09:48	Juyoung Kim	2063765
	02/20/2019	02/21/2019 10:00	Hoor Shaik	02/24/2019 17:18	Juyoung Kim	2063759
	02/20/2019	02/21/2019 10:00	Hoor Shaik	02/24/2019 17:52	Juyoung Kim	2063760
	02/20/2019	02/21/2019 10:00	Hoor Shaik	02/24/2019 18:27	Juyoung Kim	2063761
	02/20/2019	02/21/2019 10:00	Hoor Shaik	02/24/2019 19:02	Juyoung Kim	2063762

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Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	02/20/2019	02/21/2019 10:00	Hoor Shaik	02/24/2019 19:36	Juyoung Kim	2063763
	02/20/2019	02/21/2019 10:00	Hoor Shaik	02/24/2019 20:11	Juyoung Kim	2063764
	02/20/2019	02/21/2019 10:00	Hoor Shaik	02/24/2019 20:45	Juyoung Kim	2063766
SM 2120 B	02/20/2019			02/20/2019 15:35	Chelsea Hernandez	2063714
	02/20/2019			02/20/2019 16:21	Chelsea Hernandez	2063712, 2063733
	02/20/2019			02/20/2019 16:22	Chelsea Hernandez	2063717
	02/20/2019			02/20/2019 16:23	Chelsea Hernandez	2063730
	02/20/2019			02/20/2019 16:26	Chelsea Hernandez	2063713
	02/20/2019			02/20/2019 16:27	Chelsea Hernandez	2063715, 2063716
SM 2320 B-97	02/20/2019			02/26/2019 10:05	Dale L. Simmons	2063712
	02/20/2019			02/26/2019 10:17	Dale L. Simmons	2063713
	02/20/2019			02/26/2019 10:58	Dale L. Simmons	2063714
	02/20/2019			02/26/2019 11:11	Dale L. Simmons	2063715
	02/20/2019			02/26/2019 11:23	Dale L. Simmons	2063716
	02/20/2019			02/26/2019 11:34	Dale L. Simmons	2063717
	02/20/2019			02/26/2019 11:45	Dale L. Simmons	2063730
	02/20/2019			02/26/2019 11:56	Dale L. Simmons	2063733
SM 2540 C-97	02/20/2019			02/22/2019 15:01	Yijie Li	2063712, 2063713, 2063714, 2063715, 2063716, 2063717, 2063730, 2063733
SM 2540 D-97	02/20/2019			02/22/2019 15:01	Yijie Li	2063712, 2063713, 2063714, 2063715, 2063716, 2063717, 2063730, 2063733
SM 4500 F-C-97	02/20/2019			02/26/2019 10:05	Dale L. Simmons	2063712
	02/20/2019			02/26/2019 10:17	Dale L. Simmons	2063713
	02/20/2019			02/26/2019 10:58	Dale L. Simmons	2063714
	02/20/2019			02/26/2019 11:11	Dale L. Simmons	2063715
	02/20/2019			02/26/2019 11:23	Dale L. Simmons	2063716
	02/20/2019			02/26/2019 11:34	Dale L. Simmons	2063717
	02/20/2019			02/26/2019 11:45	Dale L. Simmons	2063730
	02/20/2019			02/26/2019 11:56	Dale L. Simmons	2063733
SM 5310 B-00	02/20/2019			02/27/2019 02:07	Chelsea Hernandez	2063718
	02/20/2019			02/27/2019 02:20	Chelsea Hernandez	2063719
	02/20/2019			02/27/2019 02:33	Chelsea Hernandez	2063720
	02/20/2019			02/27/2019 02:47	Chelsea Hernandez	2063721
	02/20/2019			02/27/2019 03:02	Chelsea Hernandez	2063722
	02/20/2019			02/27/2019 03:16	Chelsea Hernandez	2063723
	02/20/2019			02/27/2019 03:29	Chelsea Hernandez	2063731
	02/20/2019			02/27/2019 03:42	Chelsea Hernandez	2063734