Chemical Analysis Report

NE-DIST-2019-01-30-01

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

Event Description: **Suwannee North**
Request ID: **RQ-2019-01-28-14**
Customer: **NE-DIST**
Project ID: **SMP**

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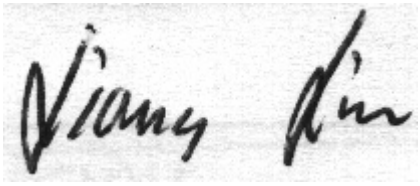
Certified by: Liang Lin, Environmental Administrator

Date Certified: 20-FEB-2019 14:09



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: LITTLE CREEK AT US 441 **Collection Date/Time: 01/29/2019 10:20**

Field ID: 21010033 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2058200	EPA 180.1 Rev. 2.0	Turbidity	1.4		NTU	P358077	
	EPA 300.0 Rev. 2.1	Chloride	6.4		mg Cl/L	P358483	
		Sulfate	0.20	U	mg SO4/L	P358484	
	SM 2120 B	Color (true)	400		PCU	P358067	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P358555	
	SM 2540 C-97	TDS	114		mg/L	P358708	
	SM 2540 D-97	TSS	2	I	mg/L	P358710	
	SM 4500 F-C-97	Fluoride	0.057	I	mg F/L	P358558	
2058201	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P358466	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.97		mg N/L	P358277	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P358113	
	EPA 365.1 Rev. 2.0	Total-P	0.052		mg P/L	P358226	
	SM 5310 B-00	Organic Carbon	46		mg C/L	P358328	
2058202	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.037		mg P/L	P358072	
2058245	EPA 8321B	2,4-D	0.0020	U	ug/L	P358017	MS
		Sucralose**	0.015	I	ug/L	P358147	
		Bentazon	8.0E-04	U	ug/L	P358017	
		MCPP	0.0020	U	ug/L	P358017	MS
		Triclopyr**	0.0040	U	ug/L	P358017	
		Imidacloprid	0.0020	U	ug/L	P358017	
		Diuron	0.0020	U	ug/L	P358017	MS
		Pyraclostrobin**	0.0020	U	ug/L	P358017	
		Primidone**	0.0040	U	ug/L	P358017	
		Linuron	0.0040	U	ug/L	P358017	MS
		Acetaminophen**	0.0080	U	ug/L	P358017	
		Fenuron	0.016	UJ	ug/L	P358017	LCS
		Imazapyr**	0.12		ug/L	P358017	
		Carbamazepine**	8.0E-04	U	ug/L	P358017	
		Fluridone**	8.0E-04	U	ug/L	P358017	
		Hydrocodone**	0.0020	U	ug/L	P358017	
		Naproxen**	0.0080	U	ug/L	P358017	
		Ibuprofen**	0.020	U	ug/L	P358017	
		Glyphosate**	0.10	U	ug/L	P358147	
		AMPA**	0.10	U	ug/L	P358147	
		Endothall**	0.25	U	ug/L	P358147	
		Glufosinate**	0.10	U	ug/L	P358147	
		Acesulfame K**	0.10	U	ug/L	P358147	

Ref. Method and Comment:
SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 4500 F-C-97: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 8321B: Refer to the narrative for an explanation of QC Codes.

Sample Location: PEACOCK LAKE CENTER **Collection Date/Time: 01/29/2019 10:45**

Field ID: 21020097 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2058203	EPA 180.1 Rev. 2.0	Turbidity	3.2		NTU	P358077	
	EPA 300.0 Rev. 2.1	Chloride	6.7		mg Cl/L	P358483	
		Sulfate	3.6		mg SO4/L	P358484	
	SM 2120 B	Color (true)	100		PCU	P358067	
	SM 2320 B-97	Total Alkalinity	8.0		mg CaCO3/L	P358555	
	SM 2540 C-97	TDS	62	A	mg/L	P358708	
	SM 2540 D-97	TSS	3	IA	mg/L	P358710	
	SM 4500 F-C-97	Fluoride	0.099	I	mg F/L	P358558	
2058204	EPA 350.1 Rev. 2.0	Ammonia-N	0.049		mg N/L	P358466	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.90		mg N/L	P358277	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.047		mg N/L	P358114	
	EPA 365.1 Rev. 2.0	Total-P	0.22		mg P/L	P358226	
	SM 5310 B-00	Organic Carbon	11		mg C/L	P358328	
2058205	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.14		mg P/L	P358072	

Ref. Method and Comment:
SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 4500 F-C-97: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: CANNON CR @ CANNON CR RD/BUSINESS PARK POINT W CR 47 **Collection Date/Time: 01/29/2019 12:45**

Field ID: 21030138 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2058194	EPA 180.1 Rev. 2.0	Turbidity	4.0		NTU	P358077	
	EPA 300.0 Rev. 2.1	Chloride	9.6		mg Cl/L	P358483	
		Sulfate	1.9		mg SO4/L	P358484	
	SM 2120 B	Color (true)	200		PCU	P358067	
	SM 2320 B-97	Total Alkalinity	40		mg CaCO3/L	P358555	
	SM 2540 C-97	TDS	113		mg/L	P358707	
	SM 2540 D-97	TSS	2	I	mg/L	P358709	
	SM 4500 F-C-97	Fluoride	0.055	I	mg F/L	P358558	
2058196	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P358466	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.64		mg N/L	P358277	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.030		mg N/L	P358113	
	EPA 365.1 Rev. 2.0	Total-P	0.040		mg P/L	P358226	
	SM 5310 B-00	Organic Carbon	20		mg C/L	P358328	
2058198	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.017		mg P/L	P358072	
2058241	EPA 8321B	Aldicarb	0.020	U	ug/L	P358017	
		Aldicarb Sulfone	0.0020	U	ug/L	P358017	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P358017	
		Carbaryl	0.0020	U	ug/L	P358017	MS
		Carbofuran	0.0020	U	ug/L	P358017	MS
		3-Hydroxycarbofuran	0.0020	U	ug/L	P358017	
		Methiocarb	0.0020	U	ug/L	P358017	MS
		Methomyl	0.0020	U	ug/L	P358017	
		Oxamyl	0.0020	U	ug/L	P358017	
		Propoxur	0.0020	U	ug/L	P358017	MS
2058243		2,4-D	0.0036	I	ug/L	P358017	MS
		Sucralose**	0.087		ug/L	P358574	
		Bentazon	0.0023	I	ug/L	P358017	
		MCPP	0.0020	U	ug/L	P358017	MS
		Triclopyr**	0.0040	U	ug/L	P358017	
		Imidacloprid	0.027		ug/L	P358017	
		Diuron	0.0020	U	ug/L	P358017	MS
		Pyraclostrobin**	0.0020	U	ug/L	P358017	
		Primidone**	0.0040	U	ug/L	P358017	
		Linuron	0.0040	U	ug/L	P358017	MS
		Acetaminophen**	0.0080	U	ug/L	P358017	
		Fenuron	0.016	UJ	ug/L	P358017	LCS
		Imazapyr**	0.025		ug/L	P358017	
		Carbamazepine**	8.0E-04	U	ug/L	P358017	
		Fluridone**	0.0013	I	ug/L	P358017	
		Hydrocodone**	0.0020	U	ug/L	P358017	
		Naproxen**	0.0080	U	ug/L	P358017	
		Ibuprofen**	0.020	U	ug/L	P358017	

Field ID: 21030138 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2058243	EPA 8321B	Glyphosate**	0.10	U	ug/L	P358146	MS
		AMPA**	0.10	U	ug/L	P358146	
		Endothall**	0.25	U	ug/L	P358146	
		Glufosinate**	0.10	U	ug/L	P358146	RPD
		Acesulfame K**	0.10	U	ug/L	P358146	
2058251	EPA 8270D	Aldrin	4.0	U	ng/L	P358259	
		Alpha-BHC	2.0	U	ng/L	P358259	
		Beta-BHC	10	U	ng/L	P358259	
		Delta-BHC	10	U	ng/L	P358259	
		Gamma-BHC	10	U	ng/L	P358259	
		Carbophenothion	12	U	ng/L	P358259	
		Chlorothalonil	2.0	U	ng/L	P358259	MS
		Cypermethrin	20	U	ng/L	P358259	
		DDD-p,p'	8.1	U	ng/L	P358259	
		DDE-p,p'	8.1	U	ng/L	P358259	
		DDT-p,p'	10	U	ng/L	P358259	
		Dieldrin	4.0	U	ng/L	P358259	
		Endosulfan I	4.0	U	ng/L	P358259	
		Endosulfan II	4.0	U	ng/L	P358259	
		Endosulfan Sulfate	2.0	U	ng/L	P358259	
		Endrin	2.0	U	ng/L	P358259	
		Endrin Aldehyde	2.0	U	ng/L	P358259	
		Heptachlor	1.5	U	ng/L	P358259	
		Heptachlor Epoxide	2.0	U	ng/L	P358259	
		Methoxychlor	4.0	U	ng/L	P358259	
		Mirex	2.0	UJ	ng/L	P358259	LCS
		Permethrin	10	U	ng/L	P358259	
		Trifluralin	2.5	U	ng/L	P358259	
		Alpha-Chlordane	1.0	U	ng/L	P358259	
		Gamma-Chlordane	1.0	U	ng/L	P358259	
		Endrin Ketone	2.0	U	ng/L	P358259	
		Dicofol	30	U	ng/L	P358259	
	EPA 8276	Chlordane	5.1	U	ng/L	P358259	
		Toxaphene	30	U	ng/L	P358259	
2058253	EPA 8270D	Acetochlor	0.24	U	ng/L	P358144	
		Alachlor	0.24	U	ng/L	P358144	
		Ametryn	0.57	U	ng/L	P358144	
		Atrazine	4.5		ng/L	P358144	
		Atrazine Desethyl	1.4	U	ng/L	P358144	RPD
		Azinphos Methyl	2.1	U	ng/L	P358144	
		Bromacil	0.47	U	ng/L	P358144	
		Butylate	0.38	U	ng/L	P358144	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P358144	MS
		Chlorpyrifos Methyl	0.095	U	ng/L	P358144	
		Cyanazine	3.1	U	ng/L	P358144	

Field ID: 21030138 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2058253	EPA 8270D	Demeton	6.6	U	ng/L	P358144	
		Diazinon	0.12	U	ng/L	P358144	
		Dimethenamid**	0.095	U	ng/L	P358144	
		Disulfoton	0.47	U	ng/L	P358144	
		Dithiopyr**	0.11	I	ng/L	P358144	
		EPTC	1.2	U	ng/L	P358144	
		Ethion	0.14	U	ng/L	P358144	RPD
		Ethoprop	0.095	U	ng/L	P358144	
		Fenamiphos	0.47	UJ	ng/L	P358144	RPD
		Fipronil	0.50	I	ng/L	P358144	
		Fipronil Desulfinyl**	0.12	U	ng/L	P358144	
		Fipronil Sulfide	0.24	I	ng/L	P358144	
		Fipronil Sulfone	1.1		ng/L	P358144	
		Fonofos	0.19	U	ng/L	P358144	
		Hexazinone	0.47	U	ng/L	P358144	
		Malathion	0.33	U	ng/L	P358144	MS, RPD
		Metalaxyl	0.52	I	ng/L	P358144	
		Metolachlor	0.55	I	ng/L	P358144	
		Metribuzin	0.71	UJ	ng/L	P358144	CCV
		Mevinphos	0.47	U	ng/L	P358144	
		Molinate	0.28	U	ng/L	P358144	
		Norflurazon	0.47	U	ng/L	P358144	
		Oxadiazon**	0.14	I	ng/L	P358144	
		Parathion Ethyl	0.24	U	ng/L	P358144	
		Parathion Methyl	0.52	U	ng/L	P358144	
		Pendimethalin	0.95	U	ng/L	P358144	
		Phorate	0.24	U	ng/L	P358144	
		Prodiamine**	2.0		ng/L	P358144	
		Prometon	0.85	U	ng/L	P358144	
		Prometryn	0.19	U	ng/L	P358144	
		Simazine	0.47	U	ng/L	P358144	
		Tebuconazole**	1.2	IJ	ng/L	P358144	LCS, RPD
		Terbufos	0.095	U	ng/L	P358144	
		Terbuthylazine	0.40	U	ng/L	P358144	
2058260	EPA 200.7 Rev. 4.4	Barium	8.0		ug/L	P358299	
		Calcium	19.1		mg/L	P358299	
		Iron	510		ug/L	P358299	
		Magnesium	1.86		mg/L	P358299	
		Potassium	0.72	I	mg/L	P358299	
		Sodium	5.9		mg/L	P358299	
		Zinc	8.6	I	ug/L	P358299	
	EPA 200.8 Rev. 5.4	Aluminum	248		ug/L	P358299	
		Antimony	0.085	I	ug/L	P358953	
		Arsenic	1.64		ug/L	P358299	
		Boron**	11.5		ug/L	P358299	

Field ID: 21030138 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2058260	EPA 200.8 Rev. 5.4	Cadmium	0.020	U	ug/L	P358299	
		Chromium	0.74	I	ug/L	P358299	
		Copper	0.80		ug/L	P358299	
		Lead	0.31	I	ug/L	P358299	
		Nickel	0.50	U	ug/L	P358299	
		Selenium	0.20	U	ug/L	P358299	
		Silver	0.010	U	ug/L	P358299	
		Thallium	0.10	U	ug/L	P358299	

Ref. Method and Comment:
SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 4500 F-C-97: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 8321B: Refer to the narrative for an explanation of QC Codes.
EPA 8270D: Refer to the narrative for an explanation of QC Codes.
EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for magnesium and potassium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for boron are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: CANNON CR @ CANNON CR RD **Collection Date/Time: 01/29/2019 13:15**

Field ID: 21030138 DUP Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2058195	EPA 180.1 Rev. 2.0	Turbidity	4.1		NTU	P358077	
	EPA 300.0 Rev. 2.1	Chloride	9.6		mg Cl/L	P358483	
		Sulfate	1.9		mg SO4/L	P358484	
	SM 2120 B	Color (true)	200		PCU	P358067	
	SM 2320 B-97	Total Alkalinity	40		mg CaCO3/L	P358555	
	SM 2540 C-97	TDS	104		mg/L	P358708	
	SM 2540 D-97	TSS	2	I	mg/L	P358710	
	SM 4500 F-C-97	Fluoride	0.055	I	mg F/L	P358558	
2058197	EPA 350.1 Rev. 2.0	Ammonia-N	0.009		mg N/L	P358466	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.65		mg N/L	P358277	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.031		mg N/L	P358113	
	EPA 365.1 Rev. 2.0	Total-P	0.040		mg P/L	P358226	
	SM 5310 B-00	Organic Carbon	20		mg C/L	P358328	
2058199	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.018		mg P/L	P358072	
2058242	EPA 8321B	Aldicarb	0.020	U	ug/L	P358017	
		Aldicarb Sulfone	0.0020	U	ug/L	P358017	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P358017	
		Carbaryl	0.0020	U	ug/L	P358017	MS
		Carbofuran	0.0020	U	ug/L	P358017	MS
		3-Hydroxycarbofuran	0.0020	U	ug/L	P358017	
		Methiocarb	0.0020	U	ug/L	P358017	MS
		Methomyl	0.0020	U	ug/L	P358017	
		Oxamyl	0.0020	U	ug/L	P358017	
		Propoxur	0.0020	U	ug/L	P358017	MS
2058244		2,4-D	0.0034	I	ug/L	P358017	MS
		Sucralose**	0.099		ug/L	P358147	
		Bentazon	0.0023	I	ug/L	P358017	
		MCPP	0.0020	U	ug/L	P358017	MS
		Triclopyr**	0.0040	U	ug/L	P358017	
		Imidacloprid	0.029		ug/L	P358017	
		Diuron	0.0020	U	ug/L	P358017	MS
		Pyraclostrobin**	0.0020	U	ug/L	P358017	
		Primidone**	0.0040	U	ug/L	P358017	
		Linuron	0.0040	U	ug/L	P358017	MS
		Acetaminophen**	0.0080	U	ug/L	P358017	
		Fenuron	0.016	UJ	ug/L	P358017	LCS
		Imazapyr**	0.028		ug/L	P358017	
		Carbamazepine**	8.0E-04	U	ug/L	P358017	
		Fluridone**	0.0013	I	ug/L	P358017	
		Hydrocodone**	0.0020	U	ug/L	P358017	
		Naproxen**	0.0080	U	ug/L	P358017	
		Ibuprofen**	0.020	U	ug/L	P358017	
		Glyphosate**	0.10	U	ug/L	P358147	

Field ID: 21030138 DUP Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2058244	EPA 8321B	AMPA**	0.10	U	ug/L	P358147	
		Endothall**	0.25	U	ug/L	P358147	
		Glufosinate**	0.10	U	ug/L	P358147	
		Acesulfame K**	0.10	U	ug/L	P358147	
2058252	EPA 8270D	Aldrin	4.0	U	ng/L	P358259	
		Alpha-BHC	2.0	U	ng/L	P358259	
		Beta-BHC	10	U	ng/L	P358259	
		Delta-BHC	10	U	ng/L	P358259	
		Gamma-BHC	10	U	ng/L	P358259	
		Carbophenothion	12	U	ng/L	P358259	
		Chlorothalonil	2.0	U	ng/L	P358259	MS
		Cypermethrin	20	U	ng/L	P358259	
		DDD-p,p'	8.1	U	ng/L	P358259	
		DDE-p,p'	8.1	U	ng/L	P358259	
		DDT-p,p'	10	U	ng/L	P358259	
		Dieldrin	4.0	U	ng/L	P358259	
		Endosulfan I	4.0	U	ng/L	P358259	
		Endosulfan II	4.0	U	ng/L	P358259	
		Endosulfan Sulfate	2.0	U	ng/L	P358259	
		Endrin	2.0	U	ng/L	P358259	
		Endrin Aldehyde	2.0	U	ng/L	P358259	
		Heptachlor	1.5	U	ng/L	P358259	
		Heptachlor Epoxide	2.0	U	ng/L	P358259	
		Methoxychlor	4.0	U	ng/L	P358259	
		Mirex	2.0	UJ	ng/L	P358259	LCS
		Permethrin	10	U	ng/L	P358259	
		Trifluralin	2.5	U	ng/L	P358259	
		Alpha-Chlordane	1.0	U	ng/L	P358259	
		Gamma-Chlordane	1.0	U	ng/L	P358259	
		Endrin Ketone	2.0	U	ng/L	P358259	
		Dicofol	30	U	ng/L	P358259	
	EPA 8276	Chlordane	5.1	U	ng/L	P358259	
		Toxaphene	30	U	ng/L	P358259	
2058254	EPA 8270D	Acetochlor	0.24	U	ng/L	P358144	
		Alachlor	0.24	U	ng/L	P358144	
		Ametryn	0.57	U	ng/L	P358144	
		Atrazine	3.5		ng/L	P358144	
		Atrazine Desethyl	1.4	U	ng/L	P358144	RPD
		Azinphos Methyl	2.1	U	ng/L	P358144	
		Bromacil	0.47	U	ng/L	P358144	
		Butylate	0.38	U	ng/L	P358144	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P358144	MS
		Chlorpyrifos Methyl	0.095	U	ng/L	P358144	
		Cyanazine	3.1	U	ng/L	P358144	
		Demeton	6.6	U	ng/L	P358144	

Field ID: 21030138 DUP Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2058254	EPA 8270D	Diazinon	0.12	U	ng/L	P358144	
		Dimethenamid**	0.095	U	ng/L	P358144	
		Disulfoton	0.47	U	ng/L	P358144	
		Dithiopyr**	0.095	U	ng/L	P358144	
		EPTC	1.2	U	ng/L	P358144	
		Ethion	0.14	U	ng/L	P358144	RPD
		Ethoprop	0.095	U	ng/L	P358144	
		Fenamiphos	0.47	UJ	ng/L	P358144	RPD
		Fipronil	0.51	I	ng/L	P358144	
		Fipronil Desulfinyl**	0.12	U	ng/L	P358144	
		Fipronil Sulfide	0.35	I	ng/L	P358144	
		Fipronil Sulfone	1.1		ng/L	P358144	
		Fonofos	0.19	U	ng/L	P358144	
		Hexazinone	0.47	U	ng/L	P358144	
		Malathion	0.33	U	ng/L	P358144	MS, RPD
		Metalaxyl	0.68	I	ng/L	P358144	
		Metolachlor	0.47	U	ng/L	P358144	
		Metribuzin	0.71	UJ	ng/L	P358144	CCV
		Mevinphos	0.47	U	ng/L	P358144	
		Molinate	0.28	U	ng/L	P358144	
		Norflurazon	0.47	U	ng/L	P358144	
		Oxadiazon**	0.12	I	ng/L	P358144	
		Parathion Ethyl	0.24	U	ng/L	P358144	
		Parathion Methyl	0.52	U	ng/L	P358144	
		Pendimethalin	0.95	U	ng/L	P358144	
		Phorate	0.24	U	ng/L	P358144	
		Prodiamine**	1.5		ng/L	P358144	
		Prometon	0.85	U	ng/L	P358144	
		Prometryn	0.19	U	ng/L	P358144	
		Simazine	0.47	U	ng/L	P358144	
		Tebuconazole**	1.5	IJ	ng/L	P358144	LCS, RPD
		Terbufos	0.095	U	ng/L	P358144	
		Terbuthylazine	0.40	U	ng/L	P358144	
2058261	EPA 200.7 Rev. 4.4	Barium	7.6		ug/L	P358299	
		Calcium	18.4		mg/L	P358299	
		Iron	500		ug/L	P358299	
		Magnesium	1.84		mg/L	P358299	
		Potassium	0.67	I	mg/L	P358299	
		Sodium	5.6		mg/L	P358299	
		Zinc	8.2	I	ug/L	P358299	
	EPA 200.8 Rev. 5.4	Aluminum	247		ug/L	P358299	
		Antimony	0.087	I	ug/L	P358953	
		Arsenic	1.67		ug/L	P358299	
		Boron**	11.8		ug/L	P358299	
		Cadmium	0.020	U	ug/L	P358299	

Field ID: 21030138 DUP Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2058261	EPA 200.8 Rev. 5.4	Chromium	0.75	I	ug/L	P358299	
		Copper	0.76	I	ug/L	P358299	
		Lead	0.31	I	ug/L	P358299	
		Nickel	0.50	U	ug/L	P358299	
		Selenium	0.20	U	ug/L	P358299	
		Silver	0.010	U	ug/L	P358299	
		Thallium	0.10	U	ug/L	P358299	

Ref. Method and Comment:
SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 4500 F-C-97: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 8321B: Refer to the narrative for an explanation of QC Codes.
EPA 8270D: Refer to the narrative for an explanation of QC Codes.
EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for magnesium and potassium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for boron are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: LITTLE CREEK AT US 441 **Collection Date/Time: 01/29/2019 10:00**

Field ID: fb 01292019 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2058206	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P358077	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P358483	
		Sulfate	0.20	U	mg SO4/L	P358484	
	SM 2120 B	Color (true)	2.5	U	PCU	P358067	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P358651	
	SM 2540 C-97	TDS	15	U	mg/L	P358707	
	SM 2540 D-97	TSS	2	U	mg/L	P358709	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P358655	
2058207	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P358466	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P358277	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P358114	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P358226	
	SM 5310 B-00	Organic Carbon	0.50	U	mg C/L	P358328	
2058208	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P358072	
2058246	EPA 8321B	Aldicarb	0.020	U	ug/L	P358017	
		Aldicarb Sulfone	0.0020	U	ug/L	P358017	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P358017	
		Carbaryl	0.0020	U	ug/L	P358017	MS
		Carbofuran	0.0020	U	ug/L	P358017	MS
		3-Hydroxycarbofuran	0.0020	U	ug/L	P358017	
		Methiocarb	0.0020	U	ug/L	P358017	MS
		Methomyl	0.0020	U	ug/L	P358017	
		Oxamyl	0.0020	U	ug/L	P358017	
		Propoxur	0.0020	U	ug/L	P358017	MS
2058247		2,4-D	0.0020	U	ug/L	P358107	
		Sucralose**	0.010	U	ug/L	P358147	
		Bentazon	8.0E-04	U	ug/L	P358107	
		MCPP	0.0020	U	ug/L	P358107	
		Triclopyr**	0.0040	U	ug/L	P358107	
		Imidacloprid	0.0020	U	ug/L	P358107	MS
		Diuron	0.0020	U	ug/L	P358107	
		Pyraclostrobin**	0.0020	U	ug/L	P358107	
		Primidone**	0.0040	U	ug/L	P358107	
		Linuron	0.0040	U	ug/L	P358107	
		Acetaminophen**	0.0080	U	ug/L	P358107	
		Fenuron	0.016	U	ug/L	P358107	
		Imazapyr**	0.0040	U	ug/L	P358107	
		Carbamazepine**	8.0E-04	U	ug/L	P358107	
		Fluridone**	8.0E-04	U	ug/L	P358107	
		Hydrocodone**	0.0020	U	ug/L	P358107	
		Naproxen**	0.0080	U	ug/L	P358107	
		Ibuprofen**	0.020	U	ug/L	P358107	
		Glyphosate**	0.10	U	ug/L	P358147	

Field ID: fb 01292019 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2058247	EPA 8321B	AMPA**	0.10	U	ug/L	P358147	
		Endothall**	0.25	U	ug/L	P358147	
		Glufosinate**	0.10	U	ug/L	P358147	
		Acesulfame K**	0.10	U	ug/L	P358147	
2058255	EPA 8270D	Aldrin	4.8	U	ng/L	P358259	
		Alpha-BHC	2.4	U	ng/L	P358259	
		Beta-BHC	12	U	ng/L	P358259	
		Delta-BHC	12	U	ng/L	P358259	
		Gamma-BHC	12	U	ng/L	P358259	
		Carbophenothion	14	U	ng/L	P358259	
		Chlorothalonil	2.4	U	ng/L	P358259	MS
		Cypermethrin	24	U	ng/L	P358259	
		DDD-p,p'	9.5	U	ng/L	P358259	
		DDE-p,p'	9.5	U	ng/L	P358259	
		DDT-p,p'	12	U	ng/L	P358259	
		Dieldrin	4.8	U	ng/L	P358259	
		Endosulfan I	4.8	U	ng/L	P358259	
		Endosulfan II	4.8	U	ng/L	P358259	
		Endosulfan Sulfate	2.4	U	ng/L	P358259	
		Endrin	2.4	U	ng/L	P358259	
		Endrin Aldehyde	2.4	U	ng/L	P358259	
		Heptachlor	1.8	U	ng/L	P358259	
		Heptachlor Epoxide	2.4	U	ng/L	P358259	
		Methoxychlor	4.8	U	ng/L	P358259	
		Mirex	2.4	UJ	ng/L	P358259	LCS
		Permethrin	12	U	ng/L	P358259	
		Trifluralin	3.0	U	ng/L	P358259	
		Alpha-Chlordane	1.2	U	ng/L	P358259	
		Gamma-Chlordane	1.2	U	ng/L	P358259	
		Endrin Ketone	2.4	U	ng/L	P358259	
		Dicofol	36	U	ng/L	P358259	
	EPA 8276	Chlordane	6.0	U	ng/L	P358259	
		Toxaphene	36	U	ng/L	P358259	
2058256	EPA 8270D	Acetochlor	0.27	U	ng/L	P358144	
		Alachlor	0.27	U	ng/L	P358144	
		Ametryn	0.65	U	ng/L	P358144	
		Atrazine	0.27	U	ng/L	P358144	
		Atrazine Desethyl	1.6	U	ng/L	P358144	RPD
		Azinphos Methyl	2.4	U	ng/L	P358144	
		Bromacil	0.54	U	ng/L	P358144	
		Butylate	0.43	U	ng/L	P358144	
		Chlorpyrifos Ethyl	0.27	U	ng/L	P358144	MS
		Chlorpyrifos Methyl	0.11	U	ng/L	P358144	
		Cyanazine	3.5	U	ng/L	P358144	
		Demeton	7.6	U	ng/L	P358144	

Field ID: fb 01292019 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2058256	EPA 8270D	Diazinon	0.14	U	ng/L	P358144	
		Dimethenamid**	0.11	U	ng/L	P358144	
		Disulfoton	0.54	U	ng/L	P358144	
		Dithiopyr**	0.11	U	ng/L	P358144	
		EPTC	1.4	U	ng/L	P358144	
		Ethion	0.16	U	ng/L	P358144	RPD
		Ethoprop	0.11	U	ng/L	P358144	
		Fenamiphos	0.54	UJ	ng/L	P358144	RPD
		Fipronil	0.27	U	ng/L	P358144	
		Fipronil Desulfinyl**	0.14	U	ng/L	P358144	
		Fipronil Sulfide	0.16	U	ng/L	P358144	
		Fipronil Sulfone	0.16	U	ng/L	P358144	
		Fonofos	0.22	U	ng/L	P358144	
		Hexazinone	0.54	U	ng/L	P358144	
		Malathion	0.38	U	ng/L	P358144	MS, RPD
		Metalaxyl	0.27	U	ng/L	P358144	
		Metolachlor	0.54	U	ng/L	P358144	
		Metribuzin	0.81	UJ	ng/L	P358144	CCV
		Mevinphos	0.54	U	ng/L	P358144	
		Molinate	0.33	U	ng/L	P358144	
		Norflurazon	0.54	U	ng/L	P358144	
		Oxadiazon**	0.11	U	ng/L	P358144	
		Parathion Ethyl	0.27	U	ng/L	P358144	
		Parathion Methyl	0.60	U	ng/L	P358144	
		Pendimethalin	1.1	U	ng/L	P358144	
		Phorate	0.27	U	ng/L	P358144	
		Prodiamine**	0.19	U	ng/L	P358144	
		Prometon	0.98	U	ng/L	P358144	
		Prometryn	0.22	U	ng/L	P358144	
		Simazine	0.54	U	ng/L	P358144	
		Tebuconazole**	0.54	UJ	ng/L	P358144	LCS, RPD
		Terbufos	0.11	U	ng/L	P358144	
		Terbuthylazine	0.46	U	ng/L	P358144	
2058262	EPA 200.7 Rev. 4.4	Barium	1.0	U	ug/L	P358299	
		Calcium	0.075	U	mg/L	P358299	
		Iron	30	U	ug/L	P358299	
		Magnesium	0.040	U	mg/L	P358299	
		Potassium	0.30	U	mg/L	P358299	
		Sodium	0.50	U	mg/L	P358299	
		Zinc	5.0	U	ug/L	P358299	
	EPA 200.8 Rev. 5.4	Aluminum	5.0	U	ug/L	P358299	
		Antimony	0.050	U	ug/L	P358953	
		Arsenic	0.050	U	ug/L	P358299	
		Boron**	2.0	U	ug/L	P358299	
		Cadmium	0.020	U	ug/L	P358299	

Field ID: fb 01292019 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2058262	EPA 200.8 Rev. 5.4	Chromium	0.40	U	ug/L	P358299	
		Copper	0.40	U	ug/L	P358299	
		Lead	0.20	U	ug/L	P358299	
		Nickel	0.50	U	ug/L	P358299	
		Selenium	0.20	U	ug/L	P358299	
		Silver	0.010	U	ug/L	P358299	
		Thallium	0.10	U	ug/L	P358299	

Ref. Method and Comment:
SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 8321B: MS accuracy for bentazon could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8270D: Refer to the narrative for an explanation of QC Codes.
EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for magnesium and potassium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for boron are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Quality Assurance Report
Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P358077

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P358299

Component	Result	Code	Units
Barium	1.0	U	ug/L
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P358299

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Arsenic	0.050	U	ug/L
Boron	2.0	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
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P358953

Component	Result	Code	Units
Antimony	0.050	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P358483

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P358484

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P358466

Component	Result	Code	Units

Quality Assurance Report
Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P358466

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P358277

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P358113

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P358114

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P358226

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P358072

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

Reference Method: EPA 8270D
Batch ID: P358144

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270D
Batch ID: P358144

Component	Result	Code	Units
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	0.25	U	ng/L
Metolachlor	0.50	U	ng/L
Metribuzin	0.75	U	ng/L
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 8270D
Batch ID: P358259

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
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270D
Batch ID: P358259

Component	Result	Code	Units
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 8276
Batch ID: P358259

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

Reference Method: EPA 8321B
Batch ID: P358017

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
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P358107

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Bentazon	8.0E-04	U	ug/L
Carbamazepine	8.0E-04	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
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
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P358146

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

Reference Method: EPA 8321B
Batch ID: P358147

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: P358574

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: SM 2120 B
Batch ID: P358067

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report
Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P358555

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

Reference Method: SM 2320 B-97
Batch ID: P358651

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

Reference Method: SM 2540 C-97
Batch ID: P358707

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P358708

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P358709

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P358710

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P358558

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P358655

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P358328

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: P358299

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	105		P	85 - 115
Calcium	104		P	85 - 115
Iron	110		P	85 - 115
Magnesium	103		P	85 - 115
Potassium	101		P	85 - 115
Sodium	103		P	85 - 115
Zinc	104		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P358299

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	107		P	85 - 115
Arsenic	108		P	85 - 115
Boron	107		P	85 - 115
Cadmium	105		P	85 - 115
Chromium	99.0		P	85 - 115
Copper	101		P	85 - 115
Lead	101		P	85 - 115
Nickel	101		P	85 - 115
Selenium	102		P	85 - 115
Silver	105		P	85 - 115
Thallium	96.1		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P358953

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Antimony	102		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P358483

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P358484

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P358466

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.1		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P358277

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P358277

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P358113

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P358114

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P358226

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P358072

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

Reference Method: EPA 8270D
Batch ID: P358144

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	98.1	93.2	P/P	71 - 121
Alachlor	105	96.5	P/P	72 - 119
Ametryn	96.0	102	P/P	47 - 144
Atrazine	95.3	93.5	P/P	75 - 123
Atrazine Desethyl	76.7	81.7	P/P	45 - 133
Azinphos Methyl	108	111	P/P	66 - 165
Bromacil	74.2	81.1	P/P	43 - 123
Butylate	77.0	67.3	P/P	27 - 83.0
Chlorpyrifos Ethyl	101	90.3	P/P	70 - 117
Chlorpyrifos Methyl	92.4	84.1	P/P	71 - 120
Cyanazine	80.3	84.4	P/P	34 - 264
Demeton	70.5	71.4	P/P	41 - 122
Diazinon	98.3	89.6	P/P	70 - 127
Dimethenamid	104	95.6	P/P	60 - 130
Disulfoton	78.0	82.1	P/P	56 - 127
Dithiopyr	96.9	89.8	P/P	60 - 130
EPTC	73.7	70.3	P/P	24 - 84.0
Ethion	107	106	P/P	53 - 132
Ethoprop	98.8	82.8	P/P	57 - 117
Fenamiphos	57.4	86.1	P/P	55 - 136
Fipronil	96.1	101	P/P	64 - 126
Fipronil Desulfinyl	98.2	94.9	P/P	60 - 130

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P358144

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fipronil Sulfide	99.7	100	P/P	57 - 120
Fipronil Sulfone	99.9	99.0	P/P	52 - 115
Fonofos	80.8	76.4	P/P	61 - 121
Hexazinone	122	93.2	P/P	62 - 131
Malathion	99.8	99.8	P/P	67 - 126
Metalaxyl	55.2	59.1	P/P	54 - 128
Metolachlor	104	99.2	P/P	71 - 118
Metribuzin	78.6	76.1	P/P	42 - 221
Mevinphos	87.4	84.4	P/P	45 - 114
Molinate	81.4	75.8	P/P	33 - 91.0
Norflurazon	83.2	104	P/P	60 - 123
Oxadiazon	107	106	P/P	60 - 130
Parathion Ethyl	84.0	91.0	P/P	73 - 111
Parathion Methyl	96.4	96.0	P/P	74 - 126
Pendimethalin	92.1	89.5	P/P	63 - 131
Phorate	72.9	73.8	P/P	54 - 115
Prodiamine	103	98.1	P/P	60 - 130
Prometon	87.3	93.3	P/P	61 - 120
Prometryn	96.1	98.9	P/P	62 - 126
Simazine	110	101	P/P	75 - 126
Tebuconazole	27.9	90.9	F/P	30 - 100
Terbufos	78.6	76.5	P/P	65 - 116
Terbuthylazine	106	97.2	P/P	73 - 117

Reference Method: EPA 8270D
Batch ID: P358259

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	48.3	60.8	P/P	20 - 93.0
Alpha-BHC	98.1	102	P/P	57 - 119
Alpha-Chlordane	75.9	82.6	P/P	58 - 112
Beta-BHC	128	140	P/P	56 - 149
Carbophenothion	87.8	98.3	P/P	26 - 147
Chlorothalonil	78.6	91.2	P/P	20 - 155
Cypermethrin	66.0	83.9	P/P	40 - 137
DDD-p,p'	92.6	99.1	P/P	65 - 129
DDE-p,p'	75.6	83.2	P/P	57 - 116
DDT-p,p'	88.2	95.4	P/P	53 - 133
Delta-BHC	138	131	P/P	59 - 163
Dicofol	103	102	P/P	24 - 138
Dieldrin	87.4	91.7	P/P	60 - 120
Endosulfan I	88.0	89.8	P/P	64 - 118
Endosulfan II	99.2	101	P/P	58 - 142
Endosulfan Sulfate	82.0	89.9	P/P	60 - 127
Endrin	89.7	91.5	P/P	59 - 122
Endrin Aldehyde	106	112	P/P	49 - 132
Endrin Ketone	82.9	90.8	P/P	64 - 121
Gamma-BHC	113	117	P/P	56 - 141
Gamma-Chlordane	72.8	80.7	P/P	56 - 110
Heptachlor	57.8	66.9	P/P	46 - 96.0
Heptachlor Epoxide	82.1	87.4	P/P	61 - 112
Methoxychlor	101	114	P/P	63 - 134

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P358259

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Mirex	37.5	48.5	F/P	45 - 100
Permethrin	63.0	77.1	P/P	53 - 115
Trifluralin	78.8	84.7	P/P	39 - 142

Reference Method: EPA 8276
Batch ID: P358259

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	72.4	76.7	P/P	43 - 128
Toxaphene	51.8	57.0	P/P	38 - 140

Reference Method: EPA 8321B
Batch ID: P358017

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	83.2		P	40 - 150
3-Hydroxycarbofuran	92.4		P	40 - 150
Acetaminophen	97.6		P	30 - 150
Aldicarb	105		P	30 - 150
Aldicarb Sulfone	96.0		P	40 - 150
Aldicarb Sulfoxide	92.4		P	40 - 150
Bentazon	69.4		P	30 - 150
Carbamazepine	96.0		P	40 - 150
Carbaryl	82.4		P	40 - 150
Carbofuran	93.7		P	40 - 150
Diuron	82.8		P	40 - 150
Fenuron	171		F	40 - 150
Fluridone	95.0		P	40 - 150
Hydrocodone	98.2		P	40 - 150
Ibuprofen	79.6		P	40 - 150
Imazapyr	91.7		P	40 - 150
Imidacloprid	92.7		P	40 - 160
Linuron	77.2		P	40 - 150
MCPP	96.9		P	40 - 150
Methiocarb	71.0		P	40 - 150
Methomyl	103		P	40 - 150
Naproxen	87.0		P	40 - 150
Oxamyl	99.0		P	40 - 150
Primidone	92.8		P	40 - 150
Propoxur	87.7		P	40 - 150
Pyraclostrobin	75.4		P	40 - 150
Triclopyr	70.5		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P358107

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	76.9		P	40 - 150
Acetaminophen	85.2		P	30 - 150
Bentazon	94.7		P	30 - 150
Carbamazepine	90.6		P	40 - 150
Diuron	76.1		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P358107

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fenuron	105		P	40 - 150
Fluridone	93.0		P	40 - 150
Hydrocodone	87.6		P	40 - 150
Ibuprofen	87.0		P	40 - 150
Imazapyr	87.2		P	40 - 150
Imidacloprid	87.1		P	40 - 160
Linuron	74.1		P	40 - 150
MCPP	91.2		P	40 - 150
Naproxen	70.7		P	40 - 150
Primidone	84.8		P	40 - 150
Pyraclostrobin	71.0		P	40 - 150
Triclopyr	65.5		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P358146

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	95.8		P	40 - 150
AMPA	118		P	40 - 150
Endothall	84.7		P	40 - 150
Glufosinate	114		P	40 - 150
Glyphosate	118		P	40 - 140

Reference Method: EPA 8321B
Batch ID: P358147

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	111		P	40 - 150
AMPA	102		P	40 - 150
Endothall	87.7		P	40 - 150
Glufosinate	69.8		P	40 - 150
Glyphosate	86.0		P	40 - 140
Sucralose	80.4		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P358574

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	80.6		P	40 - 150

Reference Method: SM 2120 B
Batch ID: P358067

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

Reference Method: SM 2320 B-97
Batch ID: P358555

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	98 - 107

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-97
Batch ID: P358651

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	98 - 107

Reference Method: SM 4500 F-C-97
Batch ID: P358558

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

Reference Method: SM 4500 F-C-97
Batch ID: P358655

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.8		P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P358328

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	101		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P358299

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058022	Barium	109		P	80 - 120
2058022	Calcium	111		P	80 - 120
2058022	Iron	113		P	80 - 120
2058022	Magnesium	111		P	80 - 120
2058022	Potassium	106		P	80 - 120
2058022	Sodium	110		P	80 - 120
2058022	Zinc	115		P	80 - 120
2058118	Barium	105	109	P/P	80 - 120
2058118	Calcium	114		P	80 - 120
2058118	Iron	105	109	P/P	80 - 120
2058118	Sodium	112		P	80 - 120
2058118	Zinc	104	108	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P358299

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058022	Aluminum	95.3		P	80 - 120
2058022	Arsenic	112		P	80 - 120
2058022	Boron	101		P	80 - 120
2058022	Cadmium	108		P	80 - 120
2058022	Chromium	103		P	80 - 120
2058022	Copper	103		P	80 - 120
2058022	Lead	105		P	80 - 120
2058022	Nickel	104		P	80 - 120
2058022	Selenium	105		P	80 - 120
2058022	Silver	105		P	80 - 120
2058022	Thallium	104		P	80 - 120
2058118	Aluminum	100	102	P/P	80 - 120
2058118	Arsenic	109	109	P/P	80 - 120
2058118	Cadmium	107	107	P/P	80 - 120
2058118	Chromium	98.2	96.3	P/P	80 - 120
2058118	Copper	95.9	97.0	P/P	80 - 120
2058118	Lead	102	102	P/P	80 - 120
2058118	Nickel	96.3	96.3	P/P	80 - 120
2058118	Selenium	84.3	83.8	P/P	80 - 120
2058118	Silver	105	104	P/P	80 - 120
2058118	Thallium	100	101	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P358953

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058063	Antimony	110	109	P/P	80 - 120
2058090	Antimony	105		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P358483

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058077	Chloride	98.8		P	90 - 110
2058415	Chloride	98.5		P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P358484

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058077	Sulfate	99.3		P	90 - 110
2058415	Sulfate	98.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P358466

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058186	Ammonia-N	100	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P358113

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058186	NO2NO3-N	99.0	98.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P358114

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058204	NO2NO3-N	99.4	99.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P358226

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058416	Total-P	107	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P358072

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058198	O-Phosphate-P	94.7	97.3	P/P	90 - 110

Reference Method: EPA 8270D
Batch ID: P358144

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2057773	Acetochlor	99.0	118	P/P	63 - 129
2057773	Alachlor	106	114	P/P	65 - 127
2057773	Ametryn	130	142	P/P	40 - 164
2057773	Atrazine	93.5	115	P/P	66 - 135
2057773	Atrazine Desethyl	80.3	112	P/P	14 - 157
2057773	Azinphos Methyl	128	157	P/P	49 - 180
2057773	Bromacil	87.5	91.1	P/P	48 - 130
2057773	Butylate	64.1	64.5	P/P	10 - 94.0
2057773	Chlorpyrifos Ethyl	124	102	F/P	58 - 123
2057773	Chlorpyrifos Methyl	101	91.5	P/P	58 - 125
2057773	Cyanazine	90.7	93.1	P/P	24 - 253
2057773	Demeton	93.9	100	P/P	25 - 149
2057773	Diazinon	103	129	P/P	59 - 144
2057773	Dimethenamid	103	107	P/P	60 - 130
2057773	Disulfoton	105	98.6	P/P	54 - 132

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P358144

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2057773	Dithiopyr	89.3	90.1	P/P	60 - 130
2057773	EPTC	60.3	67.6	P/P	10 - 92.0
2057773	Ethion	106	54.0	P/P	30 - 148
2057773	Ethoprop	98.4	101	P/P	50 - 130
2057773	Fenamiphos	101	135	P/P	49 - 142
2057773	Fipronil	91.5	104	P/P	46 - 140
2057773	Fipronil Desulfinyl	82.9	83.3	P/P	60 - 130
2057773	Fipronil Sulfide	95.8	99.5	P/P	31 - 136
2057773	Fipronil Sulfone	95.9	76.7	P/P	16 - 136
2057773	Fonofos	91.1	90.1	P/P	55 - 129
2057773	Hexazinone	102	91.0	P/P	56 - 141
2057773	Malathion	105	54.4	P/F	56 - 135
2057773	Metalaxyl	99.0	100	P/P	54 - 135
2057773	Metolachlor	103	110	P/P	51 - 140
2057773	Metribuzin	140	148	P/P	45 - 254
2057773	Mevinphos	95.9	96.3	P/P	33 - 131
2057773	Molinate	83.9	91.1	P/P	14 - 98.0
2057773	Norflurazon	98.9	115	P/P	34 - 136
2057773	Oxadiazon	98.6	92.8	P/P	60 - 130
2057773	Parathion Ethyl	82.8	85.8	P/P	66 - 118
2057773	Parathion Methyl	115	127	P/P	64 - 136
2057773	Pendimethalin	88.7	90.9	P/P	59 - 144
2057773	Phorate	106	94.0	P/P	42 - 130
2057773	Prodiamine	93.5	83.5	P/P	60 - 130
2057773	Prometon	95.8	110	P/P	59 - 134
2057773	Prometryn	88.4	81.6	P/P	54 - 135
2057773	Simazine	111	103	P/P	53 - 156
2057773	Tebuconazole	95.1	43.6	P/P	30 - 100
2057773	Terbufos	98.3	101	P/P	57 - 131
2057773	Terbuthylazine	101	103	P/P	68 - 125

Reference Method: EPA 8270D
Batch ID: P358259

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058324	Aldrin	53.5	51.9	P/P	25 - 92.0
2058324	Alpha-BHC	102	103	P/P	49 - 130
2058324	Alpha-Chlordane	77.8	75.0	P/P	50 - 115
2058324	Beta-BHC	136	125	P/P	43 - 157
2058324	Carbophenothion	141	130	P/P	27 - 180
2058324	Chlorothalonil	7.28	6.99	F/F	10 - 216
2058324	Cypermethrin	93.3	89.9	P/P	40 - 153
2058324	DDD-p,p'	106	97.9	P/P	53 - 128
2058324	DDE-p,p'	78.8	77.6	P/P	48 - 116
2058324	DDT-p,p'	95.6	93.5	P/P	47 - 128
2058324	Delta-BHC	143	164	P/P	51 - 196
2058324	Dicofol	101	91.5	P/P	10 - 147
2058324	Dieldrin	81.5	78.4	P/P	48 - 128
2058324	Endosulfan I	90.6	88.9	P/P	58 - 126
2058324	Endosulfan II	109	91.8	P/P	50 - 150
2058324	Endosulfan Sulfate	96.0	91.2	P/P	56 - 130
2058324	Endrin	84.8	83.2	P/P	50 - 126

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P358259

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058324	Endrin Aldehyde	73.4	71.1	P/P	12 - 145
2058324	Endrin Ketone	94.3	89.7	P/P	59 - 132
2058324	Gamma-BHC	118	117	P/P	50 - 155
2058324	Gamma-Chlordane	76.2	74.0	P/P	50 - 112
2058324	Heptachlor	69.2	65.6	P/P	41 - 98.0
2058324	Heptachlor Epoxide	84.2	80.9	P/P	55 - 117
2058324	Methoxychlor	111	97.5	P/P	55 - 133
2058324	Mirex	60.3	58.4	P/P	44 - 101
2058324	Permethrin	88.7	87.2	P/P	52 - 124
2058324	Trifluralin	84.3	83.0	P/P	10 - 201

Reference Method: EPA 8276
Batch ID: P358259

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2057772	Chlordane	61.2	60.7	P/P	34 - 136
2057772	Toxaphene	47.2	57.3	P/P	22 - 152

Reference Method: EPA 8321B
Batch ID: P358017

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2057771	2,4-D	122	157	P/F	40 - 150
2057771	Acetaminophen	87.0	75.3	P/P	30 - 150
2057771	Bentazon	42.8	47.3	P/P	30 - 150
2057771	Carbamazepine	51.8	55.7	P/P	40 - 150
2057771	Diuron	35.6	37.9	F/F	40 - 150
2057771	Fenuron	80.6	82.7	P/P	40 - 150
2057771	Fluridone	80.2	85.8	P/P	40 - 150
2057771	Hydrocodone	67.3	67.7	P/P	40 - 150
2057771	Ibuprofen	61.2	69.0	P/P	40 - 150
2057771	Imazapyr	80.3	79.9	P/P	40 - 150
2057771	Imidacloprid	109	113	P/P	40 - 160
2057771	Linuron	37.9	43.5	F/P	40 - 150
2057771	MCPP	158	180	F/F	40 - 150
2057771	Naproxen	62.5	65.8	P/P	40 - 150
2057771	Primidone	70.9	74.4	P/P	40 - 150
2057771	Pyraclostrobin	55.9	68.0	P/P	40 - 150
2057771	Triclopyr	83.2	109	P/P	40 - 150
2058052	3-Hydroxycarbofuran	45.0	55.7	P/P	40 - 150
2058052	Aldicarb	43.3	41.8	P/P	30 - 150
2058052	Aldicarb Sulfone	59.2	75.7	P/P	40 - 150
2058052	Aldicarb Sulfoxide	53.9	68.1	P/P	40 - 150
2058052	Carbaryl	28.8	34.3	F/F	40 - 150
2058052	Carbofuran	32.3	37.3	F/F	40 - 150
2058052	Methiocarb	26.5	30.8	F/F	40 - 150
2058052	Methomyl	48.1	57.7	P/P	40 - 150
2058052	Oxamyl	58.9	73.8	P/P	40 - 150
2058052	Propoxur	30.0	33.6	F/F	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P358107

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058259	2,4-D	106	116	P/P	40 - 150
2058259	Acetaminophen	115	110	P/P	30 - 150
2058259	Carbamazepine	85.0	83.8	P/P	40 - 150
2058259	Diuron	69.6	66.5	P/P	40 - 150
2058259	Fenuron	100	87.9	P/P	40 - 150
2058259	Fluridone	76.9	77.7	P/P	40 - 150
2058259	Hydrocodone	108	99.5	P/P	40 - 150
2058259	Ibuprofen	94.2	87.7	P/P	40 - 150
2058259	Imazapyr	84.9	84.8	P/P	40 - 150
2058259	Imidacloprid	173	159	F/P	40 - 160
2058259	Linuron	71.5	67.3	P/P	40 - 150
2058259	MCPP	130	138	P/P	40 - 150
2058259	Naproxen	75.2	81.3	P/P	40 - 150
2058259	Primidone	99.3	91.2	P/P	40 - 150
2058259	Pyraclostrobin	77.6	72.5	P/P	40 - 150
2058259	Triclopyr	84.8	96.9	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P358146

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2057632	Acesulfame K	77.6	76.9	P/P	40 - 150
2057632	AMPA	57.6	85.0	P/P	40 - 150
2057632	Endothall	94.7	84.3	P/P	40 - 150
2057632	Glufosinate	84.7	125	P/P	40 - 150
2057632	Glyphosate	116	153	P/F	40 - 140

Reference Method: EPA 8321B
Batch ID: P358147

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058244	Acesulfame K	74.3	73.1	P/P	40 - 150
2058244	AMPA	141	126	P/P	40 - 150
2058244	Endothall	94.0	97.1	P/P	40 - 150
2058244	Glufosinate	121	102	P/P	40 - 150
2058244	Glyphosate	136	111	P/P	40 - 140
2058244	Sucralose	91.5	101	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P358574

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2061097	Sucralose	109	87.6	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P358655

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2059451	Fluoride	97.4	97.4	P/P	91 - 105

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: SM 5310 B-00
Batch ID: P358328

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058470	Organic Carbon	94.6	97.9	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P358077

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058415	Turbidity	1.83	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P358299

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058118	Barium	4.05	Spike	P	0 - 20
2058118	Calcium	4.01	Spike	P	0 - 20
2058118	Iron	3.58	Spike	P	0 - 20
2058118	Magnesium	4.05	Spike	P	0 - 20
2058118	Potassium	0.735	Spike	P	0 - 20
2058118	Sodium	4.73	Spike	P	0 - 20
2058118	Zinc	3.81	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P358299

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058118	Aluminum	2.20	Spike	P	0 - 20
2058118	Arsenic	0.170	Spike	P	0 - 20
2058118	Boron	1.44	Spike	P	0 - 20
2058118	Cadmium	0.231	Spike	P	0 - 20
2058118	Chromium	1.97	Spike	P	0 - 20
2058118	Copper	1.11	Spike	P	0 - 20
2058118	Lead	0.311	Spike	P	0 - 20
2058118	Nickel	0.0557	Spike	P	0 - 20
2058118	Selenium	0.580	Spike	P	0 - 20
2058118	Silver	1.34	Spike	P	0 - 20
2058118	Thallium	0.943	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P358953

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058063	Antimony	0.515	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P358483

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058077	Chloride	0.127	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P358484

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits

Quality Assurance Report
Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P358484

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058077	Sulfate	0.316	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P358466

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058186	Ammonia-N	0.279	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P358277

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058429	Kjeldahl Nitrogen	1.78	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P358113

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058186	NO2NO3-N	0.304	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P358114

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058204	NO2NO3-N	0.406	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P358226

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058416	Total-P	2.44	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P358072

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058198	O-Phosphate-P	2.30	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P358144

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2057773	Acetochlor	17.1	Spike	P	0 - 30
2057773	Alachlor	6.43	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270D
Batch ID: P358144

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2057773	Ametryn	8.97	Spike	P	0 - 30
2057773	Atrazine	6.64	Spike	P	0 - 30
2057773	Atrazine Desethyl	32.9	Spike	F	0 - 30
2057773	Azinphos Methyl	20.2	Spike	P	0 - 30
2057773	Bromacil	4.05	Spike	P	0 - 30
2057773	Butylate	0.654	Spike	P	0 - 30
2057773	Chlorpyrifos Ethyl	19.5	Spike	P	0 - 30
2057773	Chlorpyrifos Methyl	10.2	Spike	P	0 - 30
2057773	Cyanazine	2.66	Spike	P	0 - 30
2057773	Demeton	6.72	Spike	P	0 - 30
2057773	Diazinon	22.7	Spike	P	0 - 30
2057773	Dimethenamid	3.08	Spike	P	0 - 30
2057773	Disulfoton	6.17	Spike	P	0 - 30
2057773	Dithiopyr	0.875	Spike	P	0 - 30
2057773	EPTC	11.4	Spike	P	0 - 30
2057773	Ethion	64.7	Spike	F	0 - 30
2057773	Ethoprop	2.71	Spike	P	0 - 30
2057773	Fenamiphos	28.8	Spike	P	0 - 30
2057773	Fipronil	12.7	Spike	P	0 - 30
2057773	Fipronil Desulfinyl	0.481	Spike	P	0 - 30
2057773	Fipronil Sulfide	3.81	Spike	P	0 - 30
2057773	Fipronil Sulfone	20.2	Spike	P	0 - 30
2057773	Fonofos	1.10	Spike	P	0 - 30
2057773	Hexazinone	6.12	Spike	P	0 - 30
2057773	Malathion	63.0	Spike	F	0 - 30
2057773	Metalaxyl	0.858	Spike	P	0 - 30
2057773	Metolachlor	5.68	Spike	P	0 - 30
2057773	Metribuzin	5.52	Spike	P	0 - 30
2057773	Mevinphos	0.495	Spike	P	0 - 30
2057773	Molinate	8.18	Spike	P	0 - 30
2057773	Norflurazon	15.1	Spike	P	0 - 30
2057773	Oxadiazon	5.16	Spike	P	0 - 30
2057773	Parathion Ethyl	3.60	Spike	P	0 - 30
2057773	Parathion Methyl	9.26	Spike	P	0 - 30
2057773	Pendimethalin	2.46	Spike	P	0 - 30
2057773	Phorate	12.2	Spike	P	0 - 30
2057773	Prodiamine	11.2	Spike	P	0 - 30
2057773	Prometon	13.7	Spike	P	0 - 30
2057773	Prometryn	7.98	Spike	P	0 - 30
2057773	Simazine	5.76	Spike	P	0 - 30
2057773	Tebuconazole	41.6	Spike	F	0 - 30
2057773	Terbufos	2.27	Spike	P	0 - 30
2057773	Terbuthylazine	1.62	Spike	P	0 - 30
LFB	Acetochlor	5.12	LCS	P	0 - 30
LFB	Alachlor	8.11	LCS	P	0 - 30
LFB	Ametryn	6.37	LCS	P	0 - 30
LFB	Atrazine	1.92	LCS	P	0 - 30
LFB	Atrazine Desethyl	6.35	LCS	P	0 - 30
LFB	Azinphos Methyl	2.86	LCS	P	0 - 30
LFB	Bromacil	8.98	LCS	P	0 - 30
LFB	Butylate	13.5	LCS	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270D
Batch ID: P358144

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Chlorpyrifos Ethyl	10.7	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	9.42	LCS	P	0 - 30
LFB	Cyanazine	4.95	LCS	P	0 - 30
LFB	Demeton	1.27	LCS	P	0 - 30
LFB	Diazinon	9.33	LCS	P	0 - 30
LFB	Dimethenamid	8.60	LCS	P	0 - 30
LFB	Disulfoton	5.07	LCS	P	0 - 30
LFB	Dithiopyr	7.60	LCS	P	0 - 30
LFB	EPTC	4.66	LCS	P	0 - 30
LFB	Ethion	1.68	LCS	P	0 - 30
LFB	Ethoprop	17.6	LCS	P	0 - 30
LFB	Fenamiphos	40.0	LCS	F	0 - 30
LFB	Fipronil	5.22	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	3.38	LCS	P	0 - 30
LFB	Fipronil Sulfide	0.558	LCS	P	0 - 30
LFB	Fipronil Sulfone	0.903	LCS	P	0 - 30
LFB	Fonofos	5.62	LCS	P	0 - 30
LFB	Hexazinone	27.1	LCS	P	0 - 30
LFB	Malathion	0.0194	LCS	P	0 - 30
LFB	Metalaxyl	6.76	LCS	P	0 - 30
LFB	Metolachlor	4.63	LCS	P	0 - 30
LFB	Metribuzin	3.15	LCS	P	0 - 30
LFB	Mevinphos	3.47	LCS	P	0 - 30
LFB	Molinate	7.04	LCS	P	0 - 30
LFB	Norflurazon	22.4	LCS	P	0 - 30
LFB	Oxadiazon	1.11	LCS	P	0 - 30
LFB	Parathion Ethyl	7.94	LCS	P	0 - 30
LFB	Parathion Methyl	0.467	LCS	P	0 - 30
LFB	Pendimethalin	2.92	LCS	P	0 - 30
LFB	Phorate	1.22	LCS	P	0 - 30
LFB	Prodiamine	4.89	LCS	P	0 - 30
LFB	Prometon	6.62	LCS	P	0 - 30
LFB	Prometryn	2.86	LCS	P	0 - 30
LFB	Simazine	8.45	LCS	P	0 - 30
LFB	Tebuconazole	106	LCS	F	0 - 30
LFB	Terbufos	2.78	LCS	P	0 - 30
LFB	Terbuthylazine	8.90	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P358259

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058324	Aldrin	2.92	Spike	P	0 - 30
2058324	Alpha-BHC	0.954	Spike	P	0 - 30
2058324	Alpha-Chlordane	3.64	Spike	P	0 - 30
2058324	Beta-BHC	8.39	Spike	P	0 - 30
2058324	Carbophenothion	7.61	Spike	P	0 - 30
2058324	Chlorothalonil	4.03	Spike	P	0 - 30
2058324	Cypermethrin	3.68	Spike	P	0 - 30
2058324	DDD-p,p'	7.53	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270D
Batch ID: P358259

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058324	DDE-p,p'	1.48	Spike	P	0 - 30
2058324	DDT-p,p'	2.23	Spike	P	0 - 30
2058324	Delta-BHC	13.7	Spike	P	0 - 30
2058324	Dicofol	10.1	Spike	P	0 - 30
2058324	Dieldrin	3.88	Spike	P	0 - 30
2058324	Endosulfan I	1.82	Spike	P	0 - 30
2058324	Endosulfan II	17.2	Spike	P	0 - 30
2058324	Endosulfan Sulfate	5.08	Spike	P	0 - 30
2058324	Endrin	1.82	Spike	P	0 - 30
2058324	Endrin Aldehyde	3.25	Spike	P	0 - 30
2058324	Endrin Ketone	5.00	Spike	P	0 - 30
2058324	Gamma-BHC	0.826	Spike	P	0 - 30
2058324	Gamma-Chlordane	3.02	Spike	P	0 - 30
2058324	Heptachlor	5.36	Spike	P	0 - 30
2058324	Heptachlor Epoxide	3.97	Spike	P	0 - 30
2058324	Methoxychlor	13.2	Spike	P	0 - 30
2058324	Mirex	3.13	Spike	P	0 - 30
2058324	Permethrin	1.68	Spike	P	0 - 30
2058324	Trifluralin	1.59	Spike	P	0 - 30
LFB	Aldrin	23.0	LCS	P	0 - 30
LFB	Alpha-BHC	4.10	LCS	P	0 - 30
LFB	Alpha-Chlordane	8.42	LCS	P	0 - 30
LFB	Beta-BHC	8.95	LCS	P	0 - 30
LFB	Carbophenothion	11.3	LCS	P	0 - 30
LFB	Chlorothalonil	14.8	LCS	P	0 - 30
LFB	Cypermethrin	23.8	LCS	P	0 - 30
LFB	DDD-p,p'	6.69	LCS	P	0 - 30
LFB	DDE-p,p'	9.57	LCS	P	0 - 30
LFB	DDT-p,p'	7.85	LCS	P	0 - 30
LFB	Delta-BHC	5.52	LCS	P	0 - 30
LFB	Dicofol	1.03	LCS	P	0 - 30
LFB	Dieldrin	4.86	LCS	P	0 - 30
LFB	Endosulfan I	2.12	LCS	P	0 - 30
LFB	Endosulfan II	2.16	LCS	P	0 - 30
LFB	Endosulfan Sulfate	9.11	LCS	P	0 - 30
LFB	Endrin	1.99	LCS	P	0 - 30
LFB	Endrin Aldehyde	6.13	LCS	P	0 - 30
LFB	Endrin Ketone	9.02	LCS	P	0 - 30
LFB	Gamma-BHC	4.19	LCS	P	0 - 30
LFB	Gamma-Chlordane	10.3	LCS	P	0 - 30
LFB	Heptachlor	14.6	LCS	P	0 - 30
LFB	Heptachlor Epoxide	6.23	LCS	P	0 - 30
LFB	Methoxychlor	12.1	LCS	P	0 - 30
LFB	Mirex	25.5	LCS	P	0 - 30
LFB	Permethrin	20.1	LCS	P	0 - 30
LFB	Trifluralin	7.28	LCS	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8276
Batch ID: P358259

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2057772	Chlordane	0.798	Spike	P	0 - 30
2057772	Toxaphene	19.4	Spike	P	0 - 30
LFB	Chlordane	5.77	LCS	P	0 - 30
LFB	Toxaphene	9.64	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P358017

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2057771	2,4-D	18.4	Spike	P	0 - 30
2057771	Acetaminophen	14.4	Spike	P	0 - 30
2057771	Bentazon	3.20	Spike	P	0 - 30
2057771	Carbamazepine	7.19	Spike	P	0 - 30
2057771	Diuron	5.13	Spike	P	0 - 30
2057771	Fenuron	2.63	Spike	P	0 - 30
2057771	Fluridone	6.31	Spike	P	0 - 30
2057771	Hydrocodone	0.602	Spike	P	0 - 30
2057771	Ibuprofen	12.0	Spike	P	0 - 30
2057771	Imazapyr	0.192	Spike	P	0 - 30
2057771	Imidacloprid	3.67	Spike	P	0 - 30
2057771	Linuron	13.6	Spike	P	0 - 30
2057771	MCPP	12.7	Spike	P	0 - 30
2057771	Naproxen	5.17	Spike	P	0 - 30
2057771	Primidone	4.81	Spike	P	0 - 30
2057771	Pyraclostrobin	19.5	Spike	P	0 - 30
2057771	Triclopyr	26.7	Spike	P	0 - 30
2058052	3-Hydroxycarbofuran	21.3	Spike	P	0 - 30
2058052	Aldicarb	3.61	Spike	P	0 - 30
2058052	Aldicarb Sulfone	24.5	Spike	P	0 - 30
2058052	Aldicarb Sulfoxide	23.3	Spike	P	0 - 30
2058052	Carbaryl	17.5	Spike	P	0 - 30
2058052	Carbofuran	14.2	Spike	P	0 - 30
2058052	Methiocarb	15.1	Spike	P	0 - 30
2058052	Methomyl	18.3	Spike	P	0 - 30
2058052	Oxamyl	22.4	Spike	P	0 - 30
2058052	Propoxur	11.1	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P358107

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058259	2,4-D	8.71	Spike	P	0 - 30
2058259	Acetaminophen	4.43	Spike	P	0 - 30
2058259	Bentazon	2.13	Spike	P	0 - 30
2058259	Carbamazepine	1.46	Spike	P	0 - 30
2058259	Diuron	4.50	Spike	P	0 - 30
2058259	Fenuron	13.0	Spike	P	0 - 30
2058259	Fluridone	0.251	Spike	P	0 - 30
2058259	Hydrocodone	7.75	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P358107

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058259	Ibuprofen	7.11	Spike	P	0 - 30
2058259	Imazapyr	0.0143	Spike	P	0 - 30
2058259	Imidacloprid	7.59	Spike	P	0 - 30
2058259	Linuron	5.94	Spike	P	0 - 30
2058259	MCPP	5.87	Spike	P	0 - 30
2058259	Naproxen	7.71	Spike	P	0 - 30
2058259	Primidone	8.49	Spike	P	0 - 30
2058259	Pyraclostrobin	6.85	Spike	P	0 - 30
2058259	Triclopyr	13.3	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P358146

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2057632	Acesulfame K	0.928	Spike	P	0 - 30
2057632	AMPA	22.8	Spike	P	0 - 30
2057632	Endothall	11.6	Spike	P	0 - 30
2057632	Glufosinate	38.1	Spike	F	0 - 30
2057632	Glyphosate	17.3	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P358147

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058244	Acesulfame K	1.69	Spike	P	0 - 30
2058244	AMPA	10.5	Spike	P	0 - 30
2058244	Endothall	3.19	Spike	P	0 - 30
2058244	Glufosinate	16.9	Spike	P	0 - 30
2058244	Glyphosate	20.3	Spike	P	0 - 30
2058244	Sucralose	10.2	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P358574

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2061097	Sucralose	21.3	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P358067

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058158	Color (true)	3.96	Sample	P	0 - 20

Quality Assurance Report
Precision

Reference Method: SM 2320 B-97
Batch ID: P358555

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058115	Total Alkalinity	0.494	Sample	P	0 - 1.6

Reference Method: SM 2320 B-97
Batch ID: P358651

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2059451	Total Alkalinity	0.465	Sample	P	0 - 1.6

Reference Method: SM 2540 C-97
Batch ID: P358707

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058018	TDS	7.65	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P358708

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058203	TDS	8.13	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P358558

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058115	Fluoride	0.509	Spike	P	0 - 3.5

Reference Method: SM 4500 F-C-97
Batch ID: P358655

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2059451	Fluoride	0.0	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
Batch ID: P358328

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058470	Organic Carbon	1.85	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: 2058241
Field Sample ID: 21030138

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	38.0	P	30 - 160

Lab Sample ID: 2058242
Field Sample ID: 21030138 DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	34.0	P	30 - 160

Lab Sample ID: 2058243
Field Sample ID: 21030138

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	89.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	89.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	56.8	P	30 - 160
EPA 8321B	Diuron-d6	52.3	P	30 - 160
EPA 8321B	Endothall-d6	79.7	P	40 - 160
EPA 8321B	Endothall-d6	79.7	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	67.5	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	67.5	P	40 - 160
EPA 8321B	Ibuprofen-d3	86.9	P	30 - 160
EPA 8321B	Primidone-d5	70.4	P	30 - 160
EPA 8321B	Sucralose-d6	99.9	P	40 - 160
EPA 8321B	Sucralose-d6	99.9	P	40 - 160

Lab Sample ID: 2058244
Field Sample ID: 21030138 DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	80.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	80.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	58.0	P	30 - 160
EPA 8321B	Diuron-d6	53.8	P	30 - 160
EPA 8321B	Endothall-d6	89.3	P	40 - 160
EPA 8321B	Endothall-d6	89.3	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	86.4	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	86.4	P	40 - 160
EPA 8321B	Ibuprofen-d3	69.8	P	30 - 160
EPA 8321B	Primidone-d5	71.3	P	30 - 160
EPA 8321B	Sucralose-d6	104	P	40 - 160
EPA 8321B	Sucralose-d6	104	P	40 - 160

Lab Sample ID: 2058245
Field Sample ID: 21010033

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	77.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	79.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	57.6	P	30 - 160
EPA 8321B	Diuron-d6	47.1	P	30 - 160
EPA 8321B	Endothall-d6	104	P	40 - 160
EPA 8321B	Endothall-d6	104	P	40 - 160

Quality Assurance Report
Surrogates

Lab Sample ID: 2058245
Field Sample ID: 21010033

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Glyphosate 13C 15N	58.6	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	58.6	P	40 - 160
EPA 8321B	Ibuprofen-d3	76.5	P	30 - 160
EPA 8321B	Primidone-d5	55.5	P	30 - 160
EPA 8321B	Sucralose-d6	109	P	40 - 160
EPA 8321B	Sucralose-d6	109	P	40 - 160

Lab Sample ID: 2058246
Field Sample ID: fb 01292019

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	40.3	P	30 - 160

Lab Sample ID: 2058247
Field Sample ID: fb 01292019

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	75.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	81.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	77.4	P	30 - 160
EPA 8321B	Diuron-d6	72.8	P	30 - 160
EPA 8321B	Endothall-d6	82.4	P	40 - 160
EPA 8321B	Endothall-d6	82.4	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	61.4	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	61.4	P	40 - 160
EPA 8321B	Ibuprofen-d3	93.4	P	30 - 160
EPA 8321B	Primidone-d5	80.2	P	30 - 160
EPA 8321B	Sucralose-d6	89.7	P	40 - 160
EPA 8321B	Sucralose-d6	89.7	P	40 - 160

Lab Sample ID: 2058251
Field Sample ID: 21030138

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	77.7	P	39 - 109
EPA 8270D	Tetrachloro-m-xylene	64.8	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	63.2	P	30 - 103
EPA 8276	PCNB	77.0	P	37 - 143

Lab Sample ID: 2058252
Field Sample ID: 21030138 DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	77.1	P	39 - 109
EPA 8270D	Tetrachloro-m-xylene	60.8	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	62.8	P	30 - 103
EPA 8276	PCNB	73.4	P	37 - 143

Lab Sample ID: 2058253
Field Sample ID: 21030138

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits

Quality Assurance Report
Surrogates

Lab Sample ID: 2058253
Field Sample ID: 21030138

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	119	P	68 - 130
EPA 8270D	Terbufos-d10	112	P	61 - 136

Lab Sample ID: 2058254
Field Sample ID: 21030138 DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	100	P	68 - 130
EPA 8270D	Terbufos-d10	90.7	P	61 - 136

Lab Sample ID: 2058255
Field Sample ID: fb 01292019

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	70.9	P	39 - 109
EPA 8270D	Tetrachloro-m-xylene	71.9	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	61.2	P	30 - 103
EPA 8276	PCNB	68.9	P	37 - 143

Lab Sample ID: 2058256
Field Sample ID: fb 01292019

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	107	P	68 - 130
EPA 8270D	Terbufos-d10	86.8	P	61 - 136

Quality Assurance Report
Calibration Verification

Reference Method: SM 2120 B
Run ID: A89100
Included Lab Sample IDs: 2058194, 2058195, 2058200, 2058203, 2058206

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	101	P/P	90 - 115
Color (true)	101	103	P/P	90 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A89101
Included Lab Sample IDs: 2058198, 2058199, 2058202, 2058205, 2058208

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.5	99.0	P/P	90 - 110
O-Phosphate-P	99.3	98.5	P/P	90 - 110
O-Phosphate-P	99.8	99.3	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A89102
Included Lab Sample IDs: 2058194, 2058195, 2058200, 2058203, 2058206

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	99.0	P/P	95 - 105

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A89117
Included Lab Sample IDs: 2058196, 2058197, 2058201, 2058204, 2058207

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

Reference Method: EPA 8321B
Run ID: A89162
Included Lab Sample IDs: 2058243, 2058244, 2058245

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	104	89.0	P/P	50 - 150
3-Hydroxycarbofuran	106	112	P/P	60 - 150
Acetaminophen	111	112	P/P	60 - 160
Aldicarb	90.6	101	P/P	60 - 150
Aldicarb Sulfone	100	98.5	P/P	50 - 150
Aldicarb Sulfoxide	99.3	99.1	P/P	50 - 150
Bentazon	77.5	73.3	P/P	50 - 160
Carbamazepine	100	107	P/P	60 - 150
Carbaryl	107	100	P/P	60 - 150
Carbofuran	125	120	P/P	50 - 150
Diuron	109	106	P/P	60 - 150
Fenuron	104	104	P/P	60 - 150
Fluridone	103	102	P/P	60 - 160
Hydrocodone	96.6	97.6	P/P	60 - 150
Ibuprofen	78.1	86.8	P/P	50 - 160
Imazapyr	85.7	80.9	P/P	50 - 150
Imidacloprid	96.3	98.8	P/P	60 - 150
Linuron	98.7	103	P/P	60 - 150
MCPP	97.9	110	P/P	50 - 150
Methiocarb	101	101	P/P	50 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A89162
Included Lab Sample IDs: 2058241, 2058242, 2058246

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Methomyl	105	102	P/P	50 - 150
Naproxen	81.2	101	P/P	50 - 160
Oxamyl	100	95.8	P/P	50 - 150
Primidone	103	111	P/P	60 - 150
Propoxur	105	106	P/P	50 - 150
Pyraclostrobin	102	106	P/P	60 - 150
Triclopyr	112	121	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A89174
Included Lab Sample IDs: 2058201, 2058204

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

Reference Method: EPA 8321B
Run ID: A89179
Included Lab Sample IDs: 2058243

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	118	130	P/P	60 - 160
Glufosinate	91.8	97.8	P/P	60 - 160
Glyphosate	103	98.2	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A89180
Included Lab Sample IDs: 2058196, 2058197, 2058207

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

Reference Method: EPA 8321B
Run ID: A89181
Included Lab Sample IDs: 2058244, 2058245, 2058247

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	119	92.8	P/P	60 - 160
AMPA	119	123	P/P	60 - 160
Glufosinate	89.4	91.8	P/P	60 - 160
Glufosinate	97.1	93.2	P/P	60 - 160
Glyphosate	105	107	P/P	60 - 160
Glyphosate	107	98.1	P/P	60 - 160

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A89186
Included Lab Sample IDs: 2058196, 2058197, 2058201, 2058204, 2058207

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	105	P/P	90 - 110
Kjeldahl Nitrogen	108	102	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A89189
Included Lab Sample IDs: 2058243

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	91.1	97.0	P/P	60 - 160
Endothall	81.5	85.0	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A89190
Included Lab Sample IDs: 2058244, 2058245, 2058247

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	97.0	98.9	P/P	60 - 160
Acesulfame K	98.9	97.6	P/P	60 - 160
Endothall	85.0	89.4	P/P	60 - 160
Endothall	89.4	80.8	P/P	60 - 160

Reference Method: SM 5310 B-00
Run ID: A89193
Included Lab Sample IDs: 2058196, 2058197, 2058201, 2058204, 2058207

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.2	97.6	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A89204
Included Lab Sample IDs: 2058260, 2058261, 2058262

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	107	105	P/P	90 - 110
Barium	98.6	109	P/P	95 - 105
Calcium	100	106	P/P	95 - 105
Calcium	105	105	P/P	90 - 110
Iron	101	108	P/P	95 - 105
Iron	105	105	P/P	90 - 110
Magnesium	102	108	P/P	95 - 105
Magnesium	105	105	P/P	90 - 110
Potassium	103	103	P/P	90 - 110
Potassium	97.4	105	P/P	95 - 105
Sodium	106	104	P/P	90 - 110
Sodium	98.6	106	P/P	95 - 105
Zinc	107	105	P/P	90 - 110
Zinc	98.6	109	P/P	95 - 105

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A89205
Included Lab Sample IDs: 2058194, 2058195, 2058200, 2058203, 2058206

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A89207
Included Lab Sample IDs: 2058244, 2058245, 2058247

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	86.1	97.4	P/P	60 - 160
Sucralose	97.4	81.1	P/P	60 - 160

Reference Method: EPA 8276
Run ID: A89217
Included Lab Sample IDs: 2058251, 2058252, 2058255

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.7		P	80 - 120
Chlordane	99.6		P	80 - 120
Toxaphene	85.8		P	80 - 120
Toxaphene	99.1		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A89234
Included Lab Sample IDs: 2058196, 2058197, 2058201, 2058204, 2058207

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.9	102	P/P	90 - 110

Reference Method: EPA 8270D
Run ID: A89242
Included Lab Sample IDs: 2058251, 2058252, 2058255

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	95.3		P	80 - 120
Alpha-BHC	94.1		P	80 - 120
Alpha-Chlordane	93.7		P	80 - 120
Beta-BHC	105		P	80 - 120
Carbophenothion	103		P	80 - 120
Chlorothalonil	84.2		P	80 - 120
Cypermethrin	101		P	80 - 120
DDD-p,p'	97.2		P	80 - 120
DDE-p,p'	94.9		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	96.6		P	80 - 120
Dicofol	95.7		P	80 - 120
Dieldrin	94.6		P	80 - 120
Endosulfan I	94.5		P	80 - 120
Endosulfan II	95.1		P	80 - 120
Endosulfan Sulfate	99.4		P	80 - 120
Endrin	95.7		P	80 - 120
Endrin Aldehyde	97.0		P	80 - 120
Endrin Ketone	98.7		P	80 - 120
Gamma-BHC	96.8		P	80 - 120
Gamma-Chlordane	94.2		P	80 - 120
Heptachlor	94.6		P	80 - 120
Heptachlor Epoxide	94.4		P	80 - 120
Methoxychlor	98.6		P	80 - 120
Mirex	97.6		P	80 - 120
Permethrin	93.6		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270D
Run ID: A89242
Included Lab Sample IDs: 2058251, 2058252, 2058255

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Trifluralin	93.6		P	80 - 120

Reference Method: SM 2320 B-97
Run ID: A89272
Included Lab Sample IDs: 2058194, 2058195, 2058200, 2058203

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	103	100	P/P	90 - 110
Total Alkalinity	99.9	103	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Run ID: A89272
Included Lab Sample IDs: 2058194, 2058195, 2058200, 2058203

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	98.6	P/P	90 - 110
Fluoride	99.5	101	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A89286
Included Lab Sample IDs: 2058247

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	96.1	88.0	P/P	50 - 150
Acetaminophen	107	115	P/P	60 - 160
Bentazon	114	120	P/P	50 - 160
Carbamazepine	102	102	P/P	60 - 150
Diuron	99.2	103	P/P	60 - 150
Fenuron	103	105	P/P	60 - 150
Fluridone	105	105	P/P	60 - 160
Hydrocodone	99.9	97.7	P/P	60 - 150
Ibuprofen	92.2	112	P/P	50 - 160
Imazapyr	93.1	94.9	P/P	50 - 150
Imidacloprid	98.1	98.8	P/P	60 - 150
Linuron	102	101	P/P	60 - 150
MCPP	84.7	86.5	P/P	50 - 150
Naproxen	101	100	P/P	50 - 160
Primidone	103	99.6	P/P	60 - 150
Pyraclostrobin	104	101	P/P	60 - 150
Triclopyr	93.7	91.8	P/P	50 - 150

Reference Method: SM 2320 B-97
Run ID: A89314
Included Lab Sample IDs: 2058206

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

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Reference Method: SM 4500 F-C-97
Run ID: A89314
Included Lab Sample IDs: 2058206

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.5	100	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A89350
Included Lab Sample IDs: 2058260, 2058261, 2058262

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	101	103	P/P	90 - 110
Aluminum	96.4	98.4	P/P	90 - 110
Arsenic	101	102	P/P	90 - 110
Boron	101	101	P/P	90 - 110
Boron	96.7	94.1	P/P	90 - 110
Cadmium	98.7	99.6	P/P	90 - 110
Cadmium	99.5	99.6	P/P	90 - 110
Chromium	97.8	97.0	P/P	90 - 110
Chromium	99.4	97.9	P/P	90 - 110
Copper	97.8	98.6	P/P	90 - 110
Copper	99.5	98.2	P/P	90 - 110
Lead	102	99.6	P/P	90 - 110
Lead	102	103	P/P	90 - 110
Silver	100	99.9	P/P	90 - 110
Silver	98.7	100	P/P	90 - 110
Thallium	93.3	91.6	P/P	90 - 110
Thallium	93.6	93.3	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A89414
Included Lab Sample IDs: 2058260, 2058261, 2058262

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	99.4	100	P/P	90 - 110
Nickel	97.9	99.8	P/P	90 - 110
Nickel	99.8	101	P/P	90 - 110
Selenium	96.3	97.8	P/P	90 - 110
Selenium	97.8	98.3	P/P	90 - 110

Reference Method: EPA 8270D
Run ID: A89457
Included Lab Sample IDs: 2058253, 2058254, 2058256

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	96.5		P	80 - 120
Alachlor	101		P	80 - 120
Ametryn	98.9		P	80 - 120
Atrazine	94.6		P	80 - 120
Atrazine Desethyl	92.0		P	80 - 120
Azinphos Methyl	94.8		P	80 - 120
Bromacil	94.5		P	80 - 120
Butylate	99.6		P	80 - 120
Chlorpyrifos Ethyl	95.4		P	80 - 120
Chlorpyrifos Methyl	98.2		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270D
Run ID: A89457
Included Lab Sample IDs: 2058253, 2058254, 2058256

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cyanazine	88.5		P	80 - 120
Demeton	97.0		P	80 - 120
Diazinon	97.9		P	80 - 120
Dimethenamid	101		P	80 - 120
Disulfoton	102		P	80 - 120
Dithiopyr	94.1		P	80 - 120
EPTC	97.6		P	80 - 120
Ethion	90.5		P	80 - 120
Ethoprop	99.3		P	80 - 120
Fenamiphos	97.2		P	80 - 120
Fipronil	95.5		P	80 - 120
Fipronil Desulfinyl	100		P	80 - 120
Fipronil Sulfide	98.2		P	80 - 120
Fipronil Sulfone	99.4		P	80 - 120
Fonofos	98.0		P	80 - 120
Hexazinone	97.9		P	80 - 120
Malathion	91.2		P	80 - 120
Metalaxyl	102		P	80 - 120
Metolachlor	99.2		P	80 - 120
Metribuzin	73.1*		F	80 - 120
Mevinphos	100		P	80 - 120
Molinate	98.0		P	80 - 120
Norflurazon	92.6		P	80 - 120
Oxadiazon	99.5		P	80 - 120
Parathion Ethyl	97.2		P	80 - 120
Parathion Methyl	100		P	80 - 120
Pendimethalin	95.6		P	80 - 120
Phorate	95.4		P	80 - 120
Prodiamine	88.2		P	80 - 120
Prometon	98.8		P	80 - 120
Prometryn	100		P	80 - 120
Simazine	101		P	80 - 120
Tebuconazole	94.1		P	80 - 120
Terbufos	92.8		P	80 - 120
Terbuthylazine	98.5		P	80 - 120

Reference Method: EPA 8321B
Run ID: A89461
Included Lab Sample IDs: 2058243

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	105	106	P/P	60 - 160

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A89473
Included Lab Sample IDs: 2058260, 2058261, 2058262

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Antimony	98.1	99.7	P/P	90 - 110
Antimony	99.7	99.9	P/P	90 - 110

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

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			Precision		
							LCS	SMP	MS
EPA 180.1 Rev. 2.0	Turbidity							1.83	
EPA 200.7 Rev. 4.4	Barium	105		109	105	109			4.05
	Calcium	104		111	114				4.01
	Iron	110		113	105	109			3.58
	Magnesium	103		111					4.05
	Potassium	101		106					0.735
	Sodium	103		110	112				4.73
	Zinc	104		115	104	108			3.81
EPA 200.8 Rev. 5.4	Aluminum	107		95.3	100	102			2.20
	Antimony	102		110	109	105			0.515
	Arsenic	108		112	109	109			0.170
	Boron	107		101					1.44
	Cadmium	105		108	107	107			0.231
	Chromium	99.0		103	98.2	96.3			1.97
	Copper	101		103	95.9	97.0			1.11
	Lead	101		105	102	102			0.311
	Nickel	101		104	96.3	96.3			0.0557
	Selenium	102		105	84.3	83.8			0.580
	Silver	105		105	105	104			1.34
	Thallium	96.1		104	100	101			0.943
EPA 300.0 Rev. 2.1	Chloride	98.9		98.8	98.5			0.127	
	Sulfate	100		99.3	98.3			0.316	
EPA 350.1 Rev. 2.0	Ammonia-N	97.1		100	100				0.279
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102							1.78
EPA 353.2 Rev. 2.0	NO2NO3-N	101		99.0	98.5				0.304
	NO2NO3-N	101		99.4	99.8				0.406
EPA 365.1 Rev. 2.0	Total-P	104		107	105				2.44
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.5		94.7	97.3				2.30
EPA 8270D	Acetochlor	98.1	93.2	99.0	118		5.12		17.1
	Alachlor	105	96.5	106	114		8.11		6.43
	Aldrin	48.3	60.8	53.5	51.9		23.0		2.92
	Alpha-BHC	98.1	102	102	103		4.10		0.954
	Alpha-Chlordane	75.9	82.6	77.8	75.0		8.42		3.64
	Ametryn	96.0	102	130	142		6.37		8.97
	Atrazine	95.3	93.5	93.5	115		1.92		6.64
	Atrazine Desethyl	76.7	81.7	80.3	112		6.35		32.9
	Azinphos Methyl	108	111	128	157		2.86		20.2
	Beta-BHC	128	140	136	125		8.95		8.39
	Bromacil	74.2	81.1	87.5	91.1		8.98		4.05
	Butylate	77.0	67.3	64.1	64.5		13.5		0.654
	Carbophenothion	87.8	98.3	141	130		11.3		7.61
	Chlorothalonil	78.6	91.2	7.28	6.99		14.8		4.03
	Chlorpyrifos Ethyl	101	90.3	124	102		10.7		19.5
	Chlorpyrifos Methyl	92.4	84.1	101	91.5		9.42		10.2
	Cyanazine	80.3	84.4	90.7	93.1		4.95		2.66
	Cypermethrin	66.0	83.9	93.3	89.9		23.8		3.68
	DDD-p,p'	92.6	99.1	106	97.9		6.69		7.53
	DDE-p,p'	75.6	83.2	78.8	77.6		9.57		1.48
	DDT-p,p'	88.2	95.4	95.6	93.5		7.85		2.23
	Delta-BHC	138	131	143	164		5.52		13.7
	Demeton	70.5	71.4	93.9	100		1.27		6.72
	Diazinon	98.3	89.6	103	129		9.33		22.7
	Dicofol	103	102	101	91.5		1.03		10.1
	Dieldrin	87.4	91.7	81.5	78.4		4.86		3.88

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Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision		
						LCS	SMP	MS
EPA 8270D	Dimethenamid	104	95.6	103	107	8.60		3.08
	Disulfoton	78.0	82.1	105	98.6	5.07		6.17
	Dithiopyr	96.9	89.8	89.3	90.1	7.60		0.875
	Endosulfan I	88.0	89.8	90.6	88.9	2.12		1.82
	Endosulfan II	99.2	101	109	91.8	2.16		17.2
	Endosulfan Sulfate	82.0	89.9	96.0	91.2	9.11		5.08
	Endrin	89.7	91.5	84.8	83.2	1.99		1.82
	Endrin Aldehyde	106	112	73.4	71.1	6.13		3.25
	Endrin Ketone	82.9	90.8	94.3	89.7	9.02		5.00
	EPTC	73.7	70.3	60.3	67.6	4.66		11.4
	Ethion	107	106	106	54.0	1.68		64.7
	Ethoprop	98.8	82.8	98.4	101	17.6		2.71
	Fenamiphos	57.4	86.1	101	135	40.0		28.8
	Fipronil	96.1	101	91.5	104	5.22		12.7
	Fipronil Desulfinyl	98.2	94.9	82.9	83.3	3.38		0.481
	Fipronil Sulfide	99.7	100	95.8	99.5	0.558		3.81
	Fipronil Sulfone	99.9	99.0	95.9	76.7	0.903		20.2
	Fonofos	80.8	76.4	91.1	90.1	5.62		1.10
	Gamma-BHC	113	117	118	117	4.19		0.826
	Gamma-Chlordane	72.8	80.7	76.2	74.0	10.3		3.02
	Heptachlor	57.8	66.9	69.2	65.6	14.6		5.36
	Heptachlor Epoxide	82.1	87.4	84.2	80.9	6.23		3.97
	Hexazinone	122	93.2	102	91.0	27.1		6.12
	Malathion	99.8	99.8	105	54.4	0.0194		63.0
	Metalaxyl	55.2	59.1	99.0	100	6.76		0.858
	Methoxychlor	101	114	111	97.5	12.1		13.2
	Metolachlor	104	99.2	103	110	4.63		5.68
	Metribuzin	78.6	76.1	140	148	3.15		5.52
	Mevinphos	87.4	84.4	95.9	96.3	3.47		0.495
	Mirex	37.5	48.5	60.3	58.4	25.5		3.13
	Molinate	81.4	75.8	83.9	91.1	7.04		8.18
	Norflurazon	83.2	104	98.9	115	22.4		15.1
	Oxadiazon	107	106	98.6	92.8	1.11		5.16
	Parathion Ethyl	84.0	91.0	82.8	85.8	7.94		3.60
	Parathion Methyl	96.4	96.0	115	127	0.467		9.26
	Pendimethalin	92.1	89.5	88.7	90.9	2.92		2.46
	Permethrin	63.0	77.1	88.7	87.2	20.1		1.68
	Phorate	72.9	73.8	106	94.0	1.22		12.2
	Prodiamine	103	98.1	93.5	83.5	4.89		11.2
	Prometon	87.3	93.3	95.8	110	6.62		13.7
	Prometryn	96.1	98.9	88.4	81.6	2.86		7.98
	Simazine	110	101	111	103	8.45		5.76
	Tebuconazole	27.9	90.9	95.1	43.6	106		41.6
	Terbufos	78.6	76.5	98.3	101	2.78		2.27
	Terbuthylazine	106	97.2	101	103	8.90		1.62
	Trifluralin	78.8	84.7	84.3	83.0	7.28		1.59
EPA 8276	Chlordane	72.4	76.7	61.2	60.7	5.77		0.798
	Toxaphene	51.8	57.0	47.2	57.3	9.64		19.4
EPA 8321B	2,4-D	83.2		122	157			18.4
	2,4-D	76.9		106	116			8.71
	3-Hydroxycarbofuran	92.4		45.0	55.7			21.3
	Acesulfame K	95.8		77.6	76.9			0.928
	Acesulfame K	111		74.3	73.1			1.69
	Acetaminophen	97.6		87.0	75.3			14.4

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Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Acetaminophen	85.2	115	110			4.43
	Aldicarb	105	43.3	41.8			3.61
	Aldicarb Sulfone	96.0	59.2	75.7			24.5
	Aldicarb Sulfoxide	92.4	53.9	68.1			23.3
	AMPA	118	57.6	85.0			22.8
	AMPA	102	141	126			10.5
	Bentazon	69.4	42.8	47.3			3.20
	Bentazon	94.7					2.13
	Carbamazepine	96.0	51.8	55.7			7.19
	Carbamazepine	90.6	85.0	83.8			1.46
	Carbaryl	82.4	28.8	34.3			17.5
	Carbofuran	93.7	32.3	37.3			14.2
	Diuron	82.8	35.6	37.9			5.13
	Diuron	76.1	69.6	66.5			4.50
	Endothall	84.7	94.7	84.3			11.6
	Endothall	87.7	94.0	97.1			3.19
	Fenuron	171	80.6	82.7			2.63
	Fenuron	105	100	87.9			13.0
	Fluridone	95.0	80.2	85.8			6.31
	Fluridone	93.0	76.9	77.7			0.251
	Glufosinate	114	84.7	125			38.1
	Glufosinate	69.8	121	102			16.9
	Glyphosate	118	116	153			17.3
	Glyphosate	86.0	136	111			20.3
	Hydrocodone	98.2	67.3	67.7			0.602
	Hydrocodone	87.6	108	99.5			7.75
	Ibuprofen	79.6	61.2	69.0			12.0
	Ibuprofen	87.0	94.2	87.7			7.11
	Imazapyr	91.7	80.3	79.9			0.192
	Imazapyr	87.2	84.9	84.8			0.0143
	Imidacloprid	92.7	109	113			3.67
	Imidacloprid	87.1	173	159			7.59
	Linuron	77.2	37.9	43.5			13.6
	Linuron	74.1	71.5	67.3			5.94
	MCPP	96.9	158	180			12.7
	MCPP	91.2	130	138			5.87
	Methiocarb	71.0	26.5	30.8			15.1
	Methomyl	103	48.1	57.7			18.3
	Naproxen	87.0	62.5	65.8			5.17
	Naproxen	70.7	75.2	81.3			7.71
	Oxamyl	99.0	58.9	73.8			22.4
	Primidone	92.8	70.9	74.4			4.81
	Primidone	84.8	99.3	91.2			8.49
	Propoxur	87.7	30.0	33.6			11.1
	Pyraclostrobin	75.4	55.9	68.0			19.5
	Pyraclostrobin	71.0	77.6	72.5			6.85
	Sucralose	80.4	91.5	101			10.2
	Sucralose	80.6	109	87.6			21.3
	Triclopyr	70.5	83.2	109			26.7
	Triclopyr	65.5	84.8	96.9			13.3
SM 2120 B	Color (true)	102				3.96	
SM 2320 B-97	Total Alkalinity	102				0.494	
	Total Alkalinity	102				0.465	
SM 2540 C-97	TDS					7.65	

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Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
SM 2540 C-97	TDS					8.13	
SM 4500 F-C-97	Fluoride	98.4					0.509
	Fluoride	96.8	97.4	97.4			0.0
SM 5310 B-00	Organic Carbon	101	94.6	97.9			1.85

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2058194, 2058195, 2058200, 2058203, 2058206
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2058260, 2058261, 2058262
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2058260, 2058261, 2058262
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2058194, 2058195, 2058200, 2058203, 2058206
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2058194, 2058195, 2058200, 2058203, 2058206
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2058196, 2058197, 2058201, 2058204, 2058207
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2058196, 2058197, 2058201, 2058204, 2058207
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2058196, 2058197, 2058201, 2058204, 2058207
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2058196, 2058197, 2058201, 2058204, 2058207
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2058198, 2058199, 2058202, 2058205, 2058208
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	2058251, 2058252, 2058255
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2058253, 2058254, 2058256
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2058251, 2058252, 2058255
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	2058241, 2058242, 2058246
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2058243, 2058244, 2058245, 2058247
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	2058243, 2058244, 2058245, 2058247
SM 2120 B / E31780	True Color measured at 450 nm	2058194, 2058195, 2058200, 2058203, 2058206
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	2058194, 2058195, 2058200, 2058203, 2058206
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2058194, 2058195, 2058200, 2058203, 2058206
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2058194, 2058195, 2058200, 2058203, 2058206
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2058194, 2058195, 2058200, 2058203, 2058206
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2058196, 2058197, 2058201, 2058204, 2058207

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Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	01/30/2019			01/30/2019 16:34	Adrian Shelby	2058194, 2058195, 2058200, 2058203, 2058206
EPA 200.7 Rev. 4.4	01/30/2019	02/04/2019 17:10	Elliott D. Healy	02/05/2019 16:34	Betina Topolski	2058262
	01/30/2019	02/04/2019 17:10	Elliott D. Healy	02/05/2019 19:39	Betina Topolski	2058260
	01/30/2019	02/04/2019 17:10	Elliott D. Healy	02/05/2019 19:46	Betina Topolski	2058261
EPA 200.8 Rev. 5.4	01/30/2019	02/04/2019 17:10	Elliott D. Healy	02/08/2019 19:20	Allison Taylor	2058262
	01/30/2019	02/04/2019 17:10	Elliott D. Healy	02/08/2019 22:59	Allison Taylor	2058260
	01/30/2019	02/04/2019 17:10	Elliott D. Healy	02/08/2019 23:09	Allison Taylor	2058261
	01/30/2019	02/04/2019 17:10	Elliott D. Healy	02/13/2019 20:54	Allison Taylor	2058262
	01/30/2019	02/04/2019 17:10	Elliott D. Healy	02/13/2019 22:50	Allison Taylor	2058260
	01/30/2019	02/04/2019 17:10	Elliott D. Healy	02/13/2019 22:57	Allison Taylor	2058261
	01/30/2019	02/14/2019 15:55	Elliott D. Healy	02/15/2019 19:08	Allison Taylor	2058262
	01/30/2019	02/14/2019 15:55	Elliott D. Healy	02/15/2019 22:37	Allison Taylor	2058260
	01/30/2019	02/14/2019 15:55	Elliott D. Healy	02/15/2019 22:46	Allison Taylor	2058261
EPA 300.0 Rev. 2.1	01/30/2019			02/06/2019 18:02	Lipi Saha	2058194
	01/30/2019			02/06/2019 18:17	Lipi Saha	2058195
	01/30/2019			02/06/2019 18:32	Lipi Saha	2058200
	01/30/2019			02/06/2019 18:46	Lipi Saha	2058203
	01/30/2019			02/06/2019 19:01	Lipi Saha	2058206
EPA 350.1 Rev. 2.0	01/30/2019			02/04/2019 10:43	Ping Hua	2058196
	01/30/2019			02/04/2019 10:45	Ping Hua	2058197
	01/30/2019			02/04/2019 10:46	Ping Hua	2058201
	01/30/2019			02/04/2019 10:48	Ping Hua	2058204
	01/30/2019			02/04/2019 10:52	Ping Hua	2058207
EPA 351.2 Rev. 2.0	01/30/2019	02/04/2019 12:25	Adrian Shelby	02/05/2019 10:02	Joseph Suarez	2058196
	01/30/2019	02/04/2019 12:25	Adrian Shelby	02/05/2019 10:04	Joseph Suarez	2058197
	01/30/2019	02/04/2019 12:25	Adrian Shelby	02/05/2019 10:09	Joseph Suarez	2058201
	01/30/2019	02/04/2019 12:25	Adrian Shelby	02/05/2019 10:10	Joseph Suarez	2058204
	01/30/2019	02/04/2019 12:25	Adrian Shelby	02/05/2019 10:12	Joseph Suarez	2058207
EPA 353.2 Rev. 2.0	01/30/2019			01/31/2019 11:14	Beverly Y. Sanders	2058196
	01/30/2019			01/31/2019 11:16	Beverly Y. Sanders	2058197
	01/30/2019			01/31/2019 11:17	Beverly Y. Sanders	2058201
	01/30/2019			01/31/2019 11:24	Beverly Y. Sanders	2058204
	01/30/2019			01/31/2019 11:30	Beverly Y. Sanders	2058207
EPA 365.1 Rev. 2.0	01/30/2019	02/01/2019 14:00	Sima Feizi	02/04/2019 15:00	Rosalyn Ballman	2058201
	01/30/2019	02/01/2019 14:00	Sima Feizi	02/04/2019 15:01	Rosalyn Ballman	2058204
	01/30/2019	02/01/2019 14:00	Sima Feizi	02/04/2019 17:34	Rosalyn Ballman	2058196, 2058197
	01/30/2019	02/01/2019 14:00	Sima Feizi	02/04/2019 17:35	Rosalyn Ballman	2058207
EPA 365.1 Rev. 2.0 dissolved	01/30/2019			01/30/2019 15:09	Jhamieka S. Greenwood	2058198
	01/30/2019			01/30/2019 15:20	Jhamieka S. Greenwood	2058208

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EPA 365.1 Rev. 2.0 dissolved	01/30/2019			01/30/2019 15:33	Jhamieka S. Greenwood	2058202
	01/30/2019			01/30/2019 15:34	Jhamieka S. Greenwood	2058199
	01/30/2019			01/30/2019 15:36	Jhamieka S. Greenwood	2058205
EPA 8270D	01/30/2019	02/01/2019 08:30	Rasheda Ghaffari	02/05/2019 00:31	Vandana T. Nagar	2058253
	01/30/2019	02/01/2019 08:30	Rasheda Ghaffari	02/05/2019 00:55	Vandana T. Nagar	2058254
	01/30/2019	02/01/2019 08:30	Rasheda Ghaffari	02/05/2019 01:19	Vandana T. Nagar	2058256
	01/30/2019	02/01/2019 09:00	Fe-Val Siddell	02/06/2019 21:23	Dinesh Mishra	2058251
	01/30/2019	02/01/2019 09:00	Fe-Val Siddell	02/06/2019 21:55	Dinesh Mishra	2058252
	01/30/2019	02/01/2019 09:00	Fe-Val Siddell	02/06/2019 22:27	Dinesh Mishra	2058255
EPA 8276	01/30/2019	02/01/2019 09:00	Fe-Val Siddell	02/05/2019 11:21	Arthur Maknenko	2058251
	01/30/2019	02/01/2019 09:00	Fe-Val Siddell	02/05/2019 13:12	Arthur Maknenko	2058252
	01/30/2019	02/01/2019 09:00	Fe-Val Siddell	02/05/2019 14:07	Arthur Maknenko	2058255
EPA 8321B	01/30/2019	02/01/2019 09:00	Hoor Shaik	02/01/2019 19:54	Juyoung Kim	2058241
	01/30/2019	02/01/2019 09:00	Hoor Shaik	02/01/2019 20:29	Juyoung Kim	2058242
	01/30/2019	02/01/2019 09:00	Hoor Shaik	02/01/2019 21:03	Juyoung Kim	2058246
	01/30/2019	02/01/2019 09:00	Hoor Shaik	02/02/2019 06:51	Juyoung Kim	2058243
	01/30/2019	02/01/2019 09:00	Hoor Shaik	02/02/2019 07:26	Juyoung Kim	2058244
	01/30/2019	02/01/2019 09:00	Hoor Shaik	02/02/2019 08:00	Juyoung Kim	2058245
	01/30/2019	02/01/2019 09:00	Rebecca Ware	02/01/2019 15:18	Rebecca Ware	2058243
	01/30/2019	02/01/2019 09:00	Rebecca Ware	02/03/2019 04:07	Rebecca Ware	2058243
	01/30/2019	02/01/2019 14:30	Rebecca Ware	02/02/2019 12:08	Rebecca Ware	2058245
	01/30/2019	02/01/2019 14:30	Rebecca Ware	02/02/2019 12:19	Rebecca Ware	2058247
	01/30/2019	02/01/2019 14:30	Rebecca Ware	02/03/2019 05:29	Rebecca Ware	2058244
	01/30/2019	02/01/2019 14:30	Rebecca Ware	02/03/2019 05:43	Rebecca Ware	2058245
	01/30/2019	02/01/2019 14:30	Rebecca Ware	02/03/2019 06:11	Rebecca Ware	2058247
	01/30/2019	02/01/2019 14:30	Rebecca Ware	02/04/2019 11:54	Rebecca Ware	2058244
	01/30/2019	02/01/2019 14:30	Rebecca Ware	02/04/2019 22:38	Rebecca Ware	2058244
	01/30/2019	02/01/2019 14:30	Rebecca Ware	02/04/2019 22:52	Rebecca Ware	2058245
	01/30/2019	02/01/2019 14:30	Rebecca Ware	02/04/2019 23:19	Rebecca Ware	2058247
	01/30/2019	02/04/2019 10:00	Hoor Shaik	02/06/2019 01:14	Juyoung Kim	2058247
	01/30/2019	02/08/2019 12:30	Mohammad Ghaffari	02/16/2019 01:53	Mohammad Ghaffari	2058243
SM 2120 B	01/30/2019			01/30/2019 16:00	Chelsea Hernandez	2058203
	01/30/2019			01/30/2019 16:01	Chelsea Hernandez	2058206
	01/30/2019			01/30/2019 16:06	Chelsea Hernandez	2058194
	01/30/2019			01/30/2019 16:07	Chelsea Hernandez	2058195
	01/30/2019			01/30/2019 16:08	Chelsea Hernandez	2058200
SM 2320 B-97	01/30/2019			02/07/2019 14:25	Dale L. Simmons	2058194
	01/30/2019			02/07/2019 14:37	Dale L. Simmons	2058195
	01/30/2019			02/07/2019 15:29	Dale L. Simmons	2058200
	01/30/2019			02/07/2019 15:40	Dale L. Simmons	2058203

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Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2320 B-97	01/30/2019			02/09/2019 08:03	Dale L. Simmons	2058206
SM 2540 C-97	01/30/2019			02/01/2019 13:08	Yijie Li	2058194, 2058195, 2058200, 2058203, 2058206
SM 2540 D-97	01/30/2019			02/01/2019 13:08	Yijie Li	2058194, 2058195, 2058200, 2058203, 2058206
SM 4500 F-C-97	01/30/2019			02/07/2019 14:25	Dale L. Simmons	2058194
	01/30/2019			02/07/2019 14:37	Dale L. Simmons	2058195
	01/30/2019			02/07/2019 15:29	Dale L. Simmons	2058200
	01/30/2019			02/07/2019 15:40	Dale L. Simmons	2058203
	01/30/2019			02/09/2019 08:03	Dale L. Simmons	2058206
SM 5310 B-00	01/30/2019			02/04/2019 22:06	Julia Storbeck	2058196
	01/30/2019			02/04/2019 22:20	Julia Storbeck	2058197
	01/30/2019			02/04/2019 22:34	Julia Storbeck	2058201
	01/30/2019			02/04/2019 22:48	Julia Storbeck	2058204
	01/30/2019			02/04/2019 23:01	Julia Storbeck	2058207