

Chemical Analysis Report

SE-DIST-2019-01-31-01

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

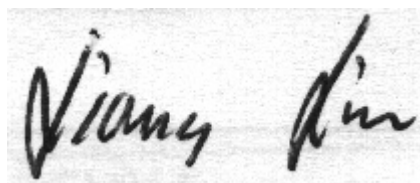
Event Description: **SMP- Plantation Run**
Request ID: **RQ-2019-01-28-62**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 21-FEB-2019 11:17

A handwritten signature in black ink, appearing to read "Liang Lin", is shown on a light-colored background.

Case Narrative

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

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

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

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

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited 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: North New River Canal (NNR-3)

Collection Date/Time: 01/30/2019 11:10

Field ID: G4SENNR3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2058694	EPA 180.1 Rev. 2.0	Turbidity	9.0	A	NTU	P358140	
	EPA 300.0 Rev. 2.1	Chloride	64		mg Cl/L	P358664	
		Sulfate	6.8		mg SO4/L	P358666	
	SM 2120 B	Color (true)	41		PCU	P358134	
	SM 2320 B-97	Total Alkalinity	198		mg CaCO3/L	P358652	
	SM 2540 C-97	TDS	339		mg/L	P358382	
	SM 2540 D-97	TSS	8	I	mg/L	P358292	
	SM 4500 F-C-97	Fluoride	0.29		mg F/L	P358656	
2058696	EPA 350.1 Rev. 2.0	Ammonia-N	0.31		mg N/L	P358566	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.5		mg N/L	P358280	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.13		mg N/L	P358417	
	EPA 365.1 Rev. 2.0	Total-P	0.022		mg P/L	P358295	
	SM 5310 B-00	Organic Carbon	15		mg C/L	P358329	
2058698	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P358137	
2058732	EPA 8321B	Aldicarb	0.020	U	ug/L	P358179	
		Aldicarb Sulfone	0.0020	U	ug/L	P358179	
		Aldicarb Sulfoxide	0.0020	UJ	ug/L	P358179	MS
		Carbaryl	0.0020	U	ug/L	P358179	
		Carbofuran	0.0020	U	ug/L	P358179	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P358179	
		Methiocarb	0.0020	U	ug/L	P358179	
		Methomyl	0.0020	U	ug/L	P358179	
		Oxamyl	0.0020	U	ug/L	P358179	
		Propoxur	0.0020	UJ	ug/L	P358179	MS
2058734		2,4-D	0.057		ug/L	P358179	
		Sucralose**	0.042		ug/L	P358148	
		Bentazon	0.017		ug/L	P358179	
		MCP	0.0020	U	ug/L	P358179	
		Triclopyr**	0.0040	U	ug/L	P358179	
		Imidacloprid	0.045		ug/L	P358179	
		Diuron	0.0041	I	ug/L	P358179	
		Pyraclostrobin**	0.0020	U	ug/L	P358179	
		Primidone**	0.0040	U	ug/L	P358179	
		Linuron	0.0040	U	ug/L	P358179	
		Acetaminophen**	0.0080	U	ug/L	P358179	
		Fenuron	0.016	U	ug/L	P358179	
		Imazapyr**	0.39		ug/L	P358179	
		Carbamazepine**	8.0E-04	U	ug/L	P358179	
		Fluridone**	0.035		ug/L	P358179	
		Hydrocodone**	0.0020	U	ug/L	P358179	
		Naproxen**	0.0080	U	ug/L	P358179	
		Ibuprofen**	0.020	U	ug/L	P358179	
		Glyphosate**	0.10	U	ug/L	P358148	

Field ID: G4SENNR3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2058734	EPA 8321B	AMPA**	0.10	U	ug/L	P358148	
		Endothall**	0.25	U	ug/L	P358148	
		Glufosinate**	0.10	U	ug/L	P358148	
		Acesulfame K**	0.10	U	ug/L	P358148	
2058736	EPA 8270D	Aldrin	4.2	U	ng/L	P358412	
		Alpha-BHC	2.1	U	ng/L	P358412	
		Beta-BHC	11	U	ng/L	P358412	
		Delta-BHC	11	U	ng/L	P358412	
		Gamma-BHC	11	U	ng/L	P358412	
		Carbophenothion	13	U	ng/L	P358412	
		Chlorothalonil	2.1	U	ng/L	P358412	
		Cypermethrin	21	U	ng/L	P358412	
		DDD-p,p'	8.5	U	ng/L	P358412	
		DDE-p,p'	8.5	U	ng/L	P358412	
		DDT-p,p'	11	U	ng/L	P358412	
		Dieldrin	4.2	U	ng/L	P358412	
		Endosulfan I	4.2	U	ng/L	P358412	
		Endosulfan II	4.2	U	ng/L	P358412	
		Endosulfan Sulfate	2.1	U	ng/L	P358412	
		Endrin	2.1	U	ng/L	P358412	
		Endrin Aldehyde	2.1	U	ng/L	P358412	
		Heptachlor	1.6	U	ng/L	P358412	
		Heptachlor Epoxide	2.1	U	ng/L	P358412	
		Methoxychlor	4.2	U	ng/L	P358412	
		Mirex	2.1	U	ng/L	P358412	
		Permethrin	11	U	ng/L	P358412	
		Trifluralin	2.6	U	ng/L	P358412	
		Alpha-Chlordane	1.1	U	ng/L	P358412	
		Gamma-Chlordane	1.1	U	ng/L	P358412	
		Endrin Ketone	2.1	U	ng/L	P358412	
		Dicofol	32	U	ng/L	P358412	
		Chlordane	5.3	U	ng/L	P358412	
		Toxaphene	32	U	ng/L	P358412	
2058738	EPA 8270D	Acetochlor	0.25	U	ng/L	P358144	
		Alachlor	0.25	U	ng/L	P358144	
		Ametryn	0.60	U	ng/L	P358144	
		Atrazine	110		ng/L	P358144	
		Atrazine Desethyl	7.0		ng/L	P358144	RPD
		Azinphos Methyl	2.3	U	ng/L	P358144	
		Bromacil	0.50	U	ng/L	P358144	
		Butylate	0.40	U	ng/L	P358144	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P358144	MS
		Chlorpyrifos Methyl	0.10	U	ng/L	P358144	
		Cyanazine	3.3	U	ng/L	P358144	
		Demeton	7.0	U	ng/L	P358144	

Field ID: G4SENNR3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2058738	EPA 8270D	Diazinon	0.13	U	ng/L	P358144	
		Dimethenamid**	0.10	U	ng/L	P358144	
		Disulfoton	0.50	U	ng/L	P358144	
		Dithiopyr**	0.10	U	ng/L	P358144	
		EPTC	1.3	U	ng/L	P358144	
		Ethion	0.15	U	ng/L	P358144	RPD
		Ethoprop	0.10	U	ng/L	P358144	
		Fenamiphos	0.50	UJ	ng/L	P358144	RPD
		Fipronil	0.25	U	ng/L	P358144	
		Fipronil Desulfinyl**	0.18	I	ng/L	P358144	
		Fipronil Sulfide	0.15	U	ng/L	P358144	
		Fipronil Sulfone	0.37	I	ng/L	P358144	
		Fonofos	0.20	U	ng/L	P358144	
		Hexazinone	3.0		ng/L	P358144	
		Malathion	0.35	U	ng/L	P358144	MS, RPD
		Metalaxyl	0.39	I	ng/L	P358144	
		Metolachlor	0.63	I	ng/L	P358144	
		Metribuzin	0.75	UJ	ng/L	P358144	CCV
		Mevinphos	0.50	U	ng/L	P358144	
		Molinate	0.30	U	ng/L	P358144	
		Norflurazon	0.50	U	ng/L	P358144	
		Oxadiazon**	16		ng/L	P358144	
		Parathion Ethyl	0.25	U	ng/L	P358144	
		Parathion Methyl	0.55	U	ng/L	P358144	
		Pendimethalin	1.0	U	ng/L	P358144	
		Phorate	0.25	U	ng/L	P358144	
		Prodiamine**	0.18	U	ng/L	P358144	
		Prometon	0.90	U	ng/L	P358144	
		Prometryn	0.20	U	ng/L	P358144	
		Simazine	0.50	U	ng/L	P358144	
		Tebuconazole**	0.50	IJ	ng/L	P358144	LCS, RPD
		Terbufos	0.10	U	ng/L	P358144	
		Terbuthylazine	0.43	U	ng/L	P358144	
2058741	EPA 200.7 Rev. 4.4	Barium	26.4		ug/L	P358340	
		Calcium	67.4		mg/L	P358340	
		Iron	240		ug/L	P358340	
		Magnesium	11.9		mg/L	P358340	
		Potassium	3.7		mg/L	P358340	
		Sodium	44.8		mg/L	P358340	
		Zinc	5.0	U	ug/L	P358340	
	EPA 200.8 Rev. 5.4	Aluminum	63		ug/L	P358340	
		Antimony	0.14	I	ug/L	P358340	
		Arsenic	1.08		ug/L	P358340	
		Boron**	39.0		ug/L	P358340	
		Cadmium	0.020	U	ug/L	P358340	

Field ID: G4SENNR3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2058741	EPA 200.8 Rev. 5.4	Chromium	0.40	U	ug/L	P358340	
		Copper	1.19		ug/L	P358340	
		Lead	0.49		ug/L	P358340	
		Nickel	0.50	U	ug/L	P358340	
		Selenium	0.20	U	ug/L	P358340	
		Silver	0.010	U	ug/L	P358340	
		Thallium	0.10	U	ug/L	P358340	

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: Refer to the narrative for an explanation of QC Codes.
EPA 8321B: MS accuracy for glyphosate and AMPA 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.

Sample Location: North New River @ Hiatus

Collection Date/Time: 01/30/2019 12:30

Field ID: G4SE0114

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2058695	EPA 180.1 Rev. 2.0	Turbidity	1.6		NTU	P358140	
	EPA 300.0 Rev. 2.1	Chloride	63		mg Cl/L	P358665	
		Sulfate	5.2		mg SO4/L	P358667	
	SM 2120 B	Color (true)	41		PCU	P358134	
	SM 2320 B-97	Total Alkalinity	198	A	mg CaCO3/L	P358652	
	SM 2540 C-97	TDS	341		mg/L	P358382	
	SM 2540 D-97	TSS	2	U	mg/L	P358292	
	SM 4500 F-C-97	Fluoride	0.30		mg F/L	P358656	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.37		mg N/L	P358566	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P358280	
2058697	EPA 353.2 Rev. 2.0	NO2NO3-N	0.19		mg N/L	P358417	
	EPA 365.1 Rev. 2.0	Total-P	0.011		mg P/L	P358295	
	SM 5310 B-00	Organic Carbon	15		mg C/L	P358329	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.004	U	mg P/L	P358137	
	dissolved						
2058733	EPA 8321B	Aldicarb	0.020	U	ug/L	P358179	
		Aldicarb Sulfone	0.0020	U	ug/L	P358179	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P358179	MS
		Carbaryl	0.0020	U	ug/L	P358179	
		Carbofuran	0.0020	U	ug/L	P358179	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P358179	
		Methiocarb	0.0020	U	ug/L	P358179	
		Methomyl	0.0020	U	ug/L	P358179	
		Oxamyl	0.0020	U	ug/L	P358179	
		Propoxur	0.0020	U	ug/L	P358179	MS
2058735		2,4-D	0.010		ug/L	P358179	
		Sucralose**	0.010	U	ug/L	P358148	
		Bentazon	0.012		ug/L	P358179	
		MCP	0.0020	U	ug/L	P358179	
		Triclopyr**	0.0040	U	ug/L	P358179	
		Imidacloprid	0.018		ug/L	P358179	
		Diuron	0.0020	U	ug/L	P358179	
		Pyraclostrobin**	0.0020	U	ug/L	P358179	
		Primidone**	0.0040	U	ug/L	P358179	
		Linuron	0.0040	U	ug/L	P358179	
		Acetaminophen**	0.0080	U	ug/L	P358179	
		Fenuron	0.016	U	ug/L	P358179	
		Imazapyr**	0.10		ug/L	P358179	
		Carbamazepine**	8.0E-04	U	ug/L	P358179	
		Fluridone**	0.013		ug/L	P358179	
		Hydrocodone**	0.0020	U	ug/L	P358179	
		Naproxen**	0.0080	U	ug/L	P358179	
		Ibuprofen**	0.020	U	ug/L	P358179	
		Glyphosate**	0.10	U	ug/L	P358148	

Field ID: G4SE0114

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2058735	EPA 8321B	AMPA**	0.10	U	ug/L	P358148	
		Endothall**	0.25	U	ug/L	P358148	
		Glufosinate**	0.10	U	ug/L	P358148	
		Acesulfame K**	0.10	U	ug/L	P358148	
2058737	EPA 8270D	Aldrin	4.3	U	ng/L	P358412	
		Alpha-BHC	2.1	U	ng/L	P358412	
		Beta-BHC	11	U	ng/L	P358412	
		Delta-BHC	11	U	ng/L	P358412	
		Gamma-BHC	11	U	ng/L	P358412	
		Carbophenothion	13	U	ng/L	P358412	
		Chlorothalonil	2.1	U	ng/L	P358412	
		Cypermethrin	21	U	ng/L	P358412	
		DDD-p,p'	8.6	U	ng/L	P358412	
		DDE-p,p'	8.6	U	ng/L	P358412	
		DDT-p,p'	11	U	ng/L	P358412	
		Dieldrin	4.3	U	ng/L	P358412	
		Endosulfan I	4.3	U	ng/L	P358412	
		Endosulfan II	4.3	U	ng/L	P358412	
		Endosulfan Sulfate	2.1	U	ng/L	P358412	
		Endrin	2.1	U	ng/L	P358412	
		Endrin Aldehyde	2.1	U	ng/L	P358412	
		Heptachlor	1.6	U	ng/L	P358412	
		Heptachlor Epoxide	2.1	U	ng/L	P358412	
		Methoxychlor	4.3	U	ng/L	P358412	
		Mirex	2.1	U	ng/L	P358412	
		Permethrin	11	U	ng/L	P358412	
		Trifluralin	2.7	U	ng/L	P358412	
		Alpha-Chlordane	1.1	U	ng/L	P358412	
		Gamma-Chlordane	1.1	U	ng/L	P358412	
		Endrin Ketone	2.1	U	ng/L	P358412	
		Dicofol	32	U	ng/L	P358412	
		Chlordane	5.4	U	ng/L	P358412	
		Toxaphene	32	U	ng/L	P358412	
2058739	EPA 8270D	Acetochlor	0.24	U	ng/L	P358144	
		Alachlor	0.24	U	ng/L	P358144	
		Ametryn	0.58	U	ng/L	P358144	
		Atrazine	27		ng/L	P358144	
		Atrazine Desethyl	2.3	I	ng/L	P358144	RPD
		Azinphos Methyl	2.2	U	ng/L	P358144	
		Bromacil	0.49	U	ng/L	P358144	
		Butylate	0.39	U	ng/L	P358144	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P358144	MS
		Chlorpyrifos Methyl	0.097	U	ng/L	P358144	
		Cyanazine	3.2	U	ng/L	P358144	
		Demeton	6.8	U	ng/L	P358144	

Field ID: G4SE0114

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2058739	EPA 8270D	Diazinon	0.12	U	ng/L	P358144	
		Dimethenamid**	0.097	U	ng/L	P358144	
		Disulfoton	0.49	U	ng/L	P358144	
		Dithiopyr**	0.097	U	ng/L	P358144	
		EPTC	1.2	U	ng/L	P358144	
		Ethion	0.15	U	ng/L	P358144	RPD
		Ethoprop	0.097	U	ng/L	P358144	
		Fenamiphos	0.49	UJ	ng/L	P358144	RPD
		Fipronil	0.24	U	ng/L	P358144	
		Fipronil Desulfinyl**	0.14	I	ng/L	P358144	
		Fipronil Sulfide	0.15	U	ng/L	P358144	
		Fipronil Sulfone	0.24	I	ng/L	P358144	
		Fonofos	0.19	U	ng/L	P358144	
		Hexazinone	2.0		ng/L	P358144	
		Malathion	0.34	U	ng/L	P358144	MS, RPD
		Metalaxyl	0.29	U	ng/L	P358144	
		Metolachlor	0.49	U	ng/L	P358144	
		Metribuzin	0.73	UJ	ng/L	P358144	CCV
		Mevinphos	0.49	U	ng/L	P358144	
		Molinate	0.29	U	ng/L	P358144	
		Norflurazon	0.49	U	ng/L	P358144	
		Oxadiazon**	8.1		ng/L	P358144	
		Parathion Ethyl	0.24	U	ng/L	P358144	
		Parathion Methyl	0.54	U	ng/L	P358144	
		Pendimethalin	0.97	U	ng/L	P358144	
		Phorate	0.24	U	ng/L	P358144	
		Prodiamine**	0.17	U	ng/L	P358144	
		Prometon	0.88	U	ng/L	P358144	
		Prometryn	0.19	U	ng/L	P358144	
		Simazine	0.49	U	ng/L	P358144	
		Tebuconazole**	0.49	UJ	ng/L	P358144	LCS, RPD
		Terbufos	0.097	U	ng/L	P358144	
		Terbutylazine	0.41	U	ng/L	P358144	
2058742	EPA 200.7 Rev. 4.4	Barium	27.4		ug/L	P358340	
		Calcium	64.6		mg/L	P358340	
		Iron	140		ug/L	P358340	
		Magnesium	12.4		mg/L	P358340	
		Potassium	3.6		mg/L	P358340	
		Sodium	45.7		mg/L	P358340	
		Zinc	5.0	U	ug/L	P358340	
	EPA 200.8 Rev. 5.4	Aluminum	11	I	ug/L	P358340	
		Antimony	0.070	I	ug/L	P358340	
		Arsenic	0.88		ug/L	P358340	
		Boron**	40.2		ug/L	P358340	
		Cadmium	0.020	U	ug/L	P358340	

Field ID: G4SE0114

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2058742	EPA 200.8 Rev. 5.4	Chromium	0.40	U	ug/L	P358340	
		Copper	0.84		ug/L	P358340	
		Lead	0.20	U	ug/L	P358340	
		Nickel	0.50	U	ug/L	P358340	
		Selenium	0.20	U	ug/L	P358340	
		Silver	0.010	U	ug/L	P358340	
		Thallium	0.10	U	ug/L	P358340	

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 glyphosate and AMPA 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.

Sample Location: C-42 @ Broward

Collection Date/Time: 01/30/2019 12:45

Field ID: G4SE0057

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2058688	EPA 180.1 Rev. 2.0	Turbidity	1.0		NTU	P358140	
	EPA 300.0 Rev. 2.1	Chloride	64		mg Cl/L	P358664	
		Sulfate	10		mg SO4/L	P358666	
	SM 2120 B	Color (true)	47		PCU	P358134	
	SM 2320 B-97	Total Alkalinity	210		mg CaCO3/L	P358652	
	SM 2540 C-97	TDS	357		mg/L	P358382	
	SM 2540 D-97	TSS	2	U	mg/L	P358292	
	SM 4500 F-C-97	Fluoride	0.27		mg F/L	P358656	
2058689	EPA 350.1 Rev. 2.0	Ammonia-N	0.14		mg N/L	P358566	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P358280	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.16		mg N/L	P358417	
	EPA 365.1 Rev. 2.0	Total-P	0.012		mg P/L	P358295	
	SM 5310 B-00	Organic Carbon	15		mg C/L	P358329	
2058690	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P358137	

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.

Sample Location: Holloway @ Peters

Collection Date/Time: 01/30/2019 13:15

Field ID: G4SE0107

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2058691	EPA 180.1 Rev. 2.0	Turbidity	1.3		NTU	P358140	
	EPA 300.0 Rev. 2.1	Chloride	67		mg Cl/L	P358664	
		Sulfate	9.9		mg SO4/L	P358666	
	SM 2120 B	Color (true)	42		PCU	P358134	
	SM 2320 B-97	Total Alkalinity	187		mg CaCO3/L	P358652	
	SM 2540 C-97	TDS	344	A	mg/L	P358382	
	SM 2540 D-97	TSS	2	UA	mg/L	P358292	
	SM 4500 F-C-97	Fluoride	0.32		mg F/L	P358656	
2058692	EPA 350.1 Rev. 2.0	Ammonia-N	0.17		mg N/L	P358566	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P358280	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.24		mg N/L	P358417	
	EPA 365.1 Rev. 2.0	Total-P	0.014		mg P/L	P358295	
	SM 5310 B-00	Organic Carbon	16		mg C/L	P358329	
2058693	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P358137	

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.

Sample Location: C-12 @ NW 8th Ct

Collection Date/Time: 01/30/2019 13:40

Field ID: G4SE0126

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2058730	EPA 8321B	2,4-D	0.020		ug/L	P358179	
		Sucralose**	0.019	I	ug/L	P358148	
		Bentazon	0.018		ug/L	P358179	
		MCP	0.0020	U	ug/L	P358179	
		Triclopyr**	0.0040	U	ug/L	P358179	
		Imidacloprid	0.016		ug/L	P358179	
		Diuron	0.031		ug/L	P358179	
		Pyraclostrobin**	0.0020	U	ug/L	P358179	
		Primidone**	0.0040	U	ug/L	P358179	
		Linuron	0.0040	U	ug/L	P358179	
		Acetaminophen**	0.0080	U	ug/L	P358179	
		Fenuron	0.016	U	ug/L	P358179	
		Imazapyr**	0.17		ug/L	P358179	
		Carbamazepine**	8.0E-04	U	ug/L	P358179	
		Fluridone**	0.0026	I	ug/L	P358179	
		Hydrocodone**	0.0020	U	ug/L	P358179	
		Naproxen**	0.0080	U	ug/L	P358179	
		Ibuprofen**	0.020	U	ug/L	P358179	
		Glyphosate**	1.3		ug/L	P358148	
		AMPA**	1.0		ug/L	P358148	
		Endothall**	0.25	U	ug/L	P358148	
		Glufosinate**	0.10	U	ug/L	P358148	
		Acesulfame K**	0.10	U	ug/L	P358148	

Ref. Method and Comment:

EPA 8321B: MS accuracy for glyphosate and AMPA could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: C-12 @ Sunrise & 9th

Collection Date/Time: 01/30/2019 13:50

Field ID: G4SE0128

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2058731	EPA 8321B	2,4-D	0.020		ug/L	P358179	
		Sucralose**	0.014	I	ug/L	P358148	
		Bentazon	0.020		ug/L	P358179	
		MCP	0.0020	U	ug/L	P358179	
		Triclopyr**	0.0040	U	ug/L	P358179	
		Imidacloprid	0.013		ug/L	P358179	
		Diuron	0.026		ug/L	P358179	
		Pyraclostrobin**	0.0020	U	ug/L	P358179	
		Primidone**	0.0040	U	ug/L	P358179	
		Linuron	0.0040	U	ug/L	P358179	
		Acetaminophen**	0.0080	U	ug/L	P358179	
		Fenuron	0.016	U	ug/L	P358179	
		Imazapyr**	0.14		ug/L	P358179	
		Carbamazepine**	8.0E-04	U	ug/L	P358179	
		Fluridone**	0.0025	I	ug/L	P358179	
		Hydrocodone**	0.0020	U	ug/L	P358179	
		Naproxen**	0.0080	U	ug/L	P358179	
		Ibuprofen**	0.020	U	ug/L	P358179	
		Glyphosate**	1.2		ug/L	P358148	
		AMPA**	1.2		ug/L	P358148	
		Endothall**	0.25	U	ug/L	P358148	
		Glufosinate**	0.10	U	ug/L	P358148	
		Acesulfame K**	0.10	U	ug/L	P358148	

Ref. Method and Comment:

EPA 8321B: MS accuracy for glyphosate and AMPA could not be assessed due to high concentration of parameter in the spiked sample.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P358140

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P358340

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: P358340

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	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 300.0 Rev. 2.1
Batch ID: P358664

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P358665

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P358666

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P358667

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P358566

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P358280

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P358417

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P358295

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P358137

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
Metaxyl	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
Terbutylazine	0.42	U	ng/L

Reference Method: EPA 8270D
Batch ID: P358412

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: P358412

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: P358412

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

Reference Method: EPA 8321B
Batch ID: P358148

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: P358179

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P358179

Component	Result	Code	Units
Methomyl	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Oxamyl	0.0020	U	ug/L
Primidone	0.0040	U	ug/L
Propoxur	0.0020	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2120 B
Batch ID: P358134

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P358652

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

Reference Method: SM 2540 C-97
Batch ID: P358382

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P358292

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P358656

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P358329

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: P358340

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	101		P	85 - 115
Calcium	104		P	85 - 115
Iron	106		P	85 - 115
Magnesium	111		P	85 - 115
Potassium	103		P	85 - 115
Sodium	106		P	85 - 115
Zinc	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P358340

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	99.7		P	85 - 115
Antimony	103		P	85 - 115
Arsenic	106		P	85 - 115
Boron	95.6		P	85 - 115
Cadmium	102		P	85 - 115
Chromium	98.4		P	85 - 115
Copper	98.3		P	85 - 115
Lead	100		P	85 - 115
Nickel	98.6		P	85 - 115
Selenium	97.3		P	85 - 115
Silver	103		P	85 - 115
Thallium	96.2		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P358664

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P358665

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P358666

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P358667

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.9		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P358566

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

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P358280

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

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P358417

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P358295

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P358137

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	100		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: P358412

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	39.6	37.8	P/P	20 - 93.0
Alpha-BHC	96.1	90.6	P/P	57 - 119
Alpha-Chlordane	69.0	73.2	P/P	58 - 112
Beta-BHC	137	141	P/P	56 - 149
Carbophenothion	106	115	P/P	26 - 147
Chlorothalonil	97.4	113	P/P	20 - 155
Cypermethrin	95.7	92.9	P/P	40 - 137
DDD-p,p'	92.0	89.6	P/P	65 - 129
DDE-p,p'	65.8	69.3	P/P	57 - 116
DDT-p,p'	84.6	79.7	P/P	53 - 133
Delta-BHC	134	144	P/P	59 - 163
Dicofol	82.1	81.1	P/P	24 - 138
Dieldrin	74.1	79.1	P/P	60 - 120
Endosulfan I	72.6	83.3	P/P	64 - 118
Endosulfan II	107	119	P/P	58 - 142
Endosulfan Sulfate	100	102	P/P	60 - 127
Endrin	89.3	87.5	P/P	59 - 122
Endrin Aldehyde	105	108	P/P	49 - 132
Endrin Ketone	93.6	92.7	P/P	64 - 121
Gamma-BHC	133	135	P/P	56 - 141
Gamma-Chlordane	67.6	69.9	P/P	56 - 110
Heptachlor	58.9	55.4	P/P	46 - 96.0
Heptachlor Epoxide	79.1	77.1	P/P	61 - 112
Methoxychlor	106	102	P/P	63 - 134

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P358412

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Mirex	47.3	45.8	P/P	45 - 100
Permethrin	85.7	80.0	P/P	53 - 115
Trifluralin	75.2	71.0	P/P	39 - 142

Reference Method: EPA 8276
Batch ID: P358412

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	90.0	67.8	P/P	43 - 128
Toxaphene	67.6	65.0	P/P	38 - 140

Reference Method: EPA 8321B
Batch ID: P358148

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	115		P	40 - 150
AMPA	127		P	40 - 150
Endothall	93.8		P	40 - 150
Glufosinate	72.5		P	40 - 150
Glyphosate	85.0		P	40 - 140
Sucralose	82.5		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P358179

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	89.7		P	40 - 150
3-Hydroxycarbofuran	70.2		P	40 - 150
Acetaminophen	101		P	30 - 150
Aldicarb	61.5		P	30 - 150
Aldicarb Sulfone	100		P	40 - 150
Aldicarb Sulfoxide	104		P	40 - 150
Bentazon	86.8		P	30 - 150
Carbamazepine	95.7		P	40 - 150
Carbaryl	65.8		P	40 - 150
Carbofuran	70.8		P	40 - 150
Diuron	70.5		P	40 - 150
Fenuron	124		P	40 - 150
Fluridone	102		P	40 - 150
Hydrocodone	112		P	40 - 150
Ibuprofen	91.2		P	40 - 150
Imazapyr	101		P	40 - 150
Imidacloprid	105		P	40 - 160
Linuron	69.9		P	40 - 150
MCPP	128		P	40 - 150
Methiocarb	62.1		P	40 - 150
Methomyl	108		P	40 - 150
Naproxen	53.2		P	40 - 150
Oxamyl	98.6		P	40 - 150
Primidone	92.8		P	40 - 150
Propoxur	76.3		P	40 - 150
Pyraclostrobin	50.9		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P358179

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Triclopyr	76.8		P	40 - 150

Reference Method: SM 2120 B
Batch ID: P358134

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

Reference Method: SM 2320 B-97
Batch ID: P358652

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	98 - 107

Reference Method: SM 4500 F-C-97
Batch ID: P358656

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

Reference Method: SM 5310 B-00
Batch ID: P358329

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P358340

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058652	Barium	100		P	80 - 120
2058652	Calcium	102		P	80 - 120
2058652	Iron	109		P	80 - 120
2058652	Magnesium	106		P	80 - 120
2058652	Potassium	102		P	80 - 120
2058652	Sodium	105		P	80 - 120
2058652	Zinc	102		P	80 - 120
2058985	Barium	100	101	P/P	80 - 120
2058985	Calcium	107		P	80 - 120
2058985	Iron	107	109	P/P	80 - 120
2058985	Magnesium	109	112	P/P	80 - 120
2058985	Potassium	100	102	P/P	80 - 120
2058985	Sodium	106		P	80 - 120
2058985	Zinc	104	105	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P358340

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058652	Aluminum	104		P	80 - 120
2058652	Antimony	108		P	80 - 120
2058652	Arsenic	110		P	80 - 120
2058652	Boron	96.6		P	80 - 120
2058652	Cadmium	107		P	80 - 120
2058652	Chromium	95.7		P	80 - 120
2058652	Copper	97.4		P	80 - 120
2058652	Lead	101		P	80 - 120
2058652	Nickel	96.0		P	80 - 120
2058652	Selenium	99.3		P	80 - 120
2058652	Silver	104		P	80 - 120
2058652	Thallium	99.5		P	80 - 120
2058985	Aluminum	97.8	97.2	P/P	80 - 120
2058985	Antimony	107	108	P/P	80 - 120
2058985	Arsenic	110	110	P/P	80 - 120
2058985	Boron	95.6	94.9	P/P	80 - 120
2058985	Cadmium	105	105	P/P	80 - 120
2058985	Chromium	103	103	P/P	80 - 120
2058985	Copper	102	102	P/P	80 - 120
2058985	Lead	103	103	P/P	80 - 120
2058985	Nickel	100	101	P/P	80 - 120
2058985	Selenium	99.1	99.0	P/P	80 - 120
2058985	Silver	105	105	P/P	80 - 120
2058985	Thallium	100	103	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P358664

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058536	Chloride	97.0		P	90 - 110
2058623	Chloride	98.3		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P358665

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058864	Chloride	98.7		P	90 - 110
2058965	Chloride	99.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P358666

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058536	Sulfate	99.1		P	90 - 110
2058623	Sulfate	98.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P358667

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058864	Sulfate	100		P	90 - 110
2058965	Sulfate	99.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P358566

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058661	Ammonia-N	105	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P358417

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058630	NO2NO3-N	97.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P358295

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058689	Total-P	101	97.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P358137

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058627	O-Phosphate-P	93.7	96.1	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

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	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
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	Metaxyl	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	Terbutylazine	101	103	P/P	68 - 125

Reference Method: EPA 8270D
Batch ID: P358412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058461	Aldrin	55.1	56.4	P/P	25 - 92.0
2058461	Alpha-BHC	105	96.2	P/P	49 - 130
2058461	Alpha-Chlordane	71.1	68.7	P/P	50 - 115
2058461	Beta-BHC	99.2	97.2	P/P	43 - 157
2058461	Carbophenothion	115	153	P/P	27 - 180
2058461	Chlorothalonil	126	127	P/P	10 - 216
2058461	Cypermethrin	95.4	104	P/P	40 - 153
2058461	DDD-p,p'	85.7	85.0	P/P	53 - 128
2058461	DDE-p,p'	68.1	73.9	P/P	48 - 116

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P358412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058461	DDT-p,p'	86.8	87.8	P/P	47 - 128
2058461	Delta-BHC	122	115	P/P	51 - 196
2058461	Dicofol	82.9	79.5	P/P	10 - 147
2058461	Dieldrin	73.0	73.7	P/P	48 - 128
2058461	Endosulfan I	76.1	78.4	P/P	58 - 126
2058461	Endosulfan II	127	138	P/P	50 - 150
2058461	Endosulfan Sulfate	105	102	P/P	56 - 130
2058461	Endrin	91.0	82.6	P/P	50 - 126
2058461	Endrin Aldehyde	97.7	80.5	P/P	12 - 145
2058461	Endrin Ketone	93.4	93.1	P/P	59 - 132
2058461	Gamma-BHC	116	115	P/P	50 - 155
2058461	Gamma-Chlordane	72.2	69.1	P/P	50 - 112
2058461	Heptachlor	64.1	65.7	P/P	41 - 98.0
2058461	Heptachlor Epoxide	75.8	72.0	P/P	55 - 117
2058461	Methoxychlor	98.2	97.2	P/P	55 - 133
2058461	Mirex	57.7	58.2	P/P	44 - 101
2058461	Permethrin	90.9	92.3	P/P	52 - 124
2058461	Trifluralin	73.7	73.6	P/P	10 - 201

Reference Method: EPA 8276
Batch ID: P358412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058736	Chlordane	61.7	60.6	P/P	34 - 136
2058736	Toxaphene	57.0	56.9	P/P	22 - 152

Reference Method: EPA 8321B
Batch ID: P358148

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058683	Acesulfame K	78.4	77.0	P/P	40 - 150
2058683	Endothall	98.1	85.0	P/P	40 - 150
2058683	Glufosinate	95.7	128	P/P	40 - 150
2058683	Sucralose	78.4	82.8	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P358179

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058649	2,4-D	91.0	101	P/P	40 - 150
2058649	Acetaminophen	93.7	94.8	P/P	30 - 150
2058649	Bentazon	37.1	32.9	P/P	30 - 150
2058649	Carbamazepine	73.4	74.9	P/P	40 - 150
2058649	Diuron	58.2	50.9	P/P	40 - 150
2058649	Fenuron	80.7	87.4	P/P	40 - 150
2058649	Fluridone	85.8	82.8	P/P	40 - 150
2058649	Hydrocodone	97.9	102	P/P	40 - 150
2058649	Ibuprofen	87.6	82.4	P/P	40 - 150
2058649	Imazapyr	109	98.1	P/P	40 - 150
2058649	Imidacloprid	140	150	P/P	40 - 160
2058649	Linuron	55.6	52.8	P/P	40 - 150
2058649	MCP	121	121	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P358179

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058649	Naproxen	70.3	65.7	P/P	40 - 150
2058649	Primidone	101	99.2	P/P	40 - 150
2058649	Pyraclostrobin	65.0	54.8	P/P	40 - 150
2058649	Triclopyr	79.8	77.6	P/P	40 - 150
2058732	3-Hydroxycarbofuran	54.8	56.8	P/P	40 - 150
2058732	Aldicarb	36.5	43.8	P/P	30 - 150
2058732	Aldicarb Sulfone	78.9	71.5	P/P	40 - 150
2058732	Aldicarb Sulfoxide	36.5	34.8	F/F	40 - 150
2058732	Carbaryl	44.7	41.2	P/P	40 - 150
2058732	Carbofuran	44.4	42.3	P/P	40 - 150
2058732	Methiocarb	46.9	43.1	P/P	40 - 150
2058732	Methomyl	69.3	64.6	P/P	40 - 150
2058732	Oxamyl	65.9	63.2	P/P	40 - 150
2058732	Propoxur	45.3	40.0	P/F	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P358656

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058695	Fluoride	99.0	98.2	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P358329

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2058610	Organic Carbon	98.4	98.1	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P358140

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058694	Turbidity	10.9	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P358340

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058985	Barium	0.539	Spike	P	0 - 20
2058985	Calcium	0.599	Spike	P	0 - 20
2058985	Iron	1.64	Spike	P	0 - 20
2058985	Magnesium	2.41	Spike	P	0 - 20
2058985	Potassium	1.48	Spike	P	0 - 20
2058985	Sodium	0.288	Spike	P	0 - 20
2058985	Zinc	0.720	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P358340

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058985	Aluminum	0.562	Spike	P	0 - 20
2058985	Antimony	0.548	Spike	P	0 - 20
2058985	Arsenic	0.167	Spike	P	0 - 20
2058985	Boron	0.561	Spike	P	0 - 20
2058985	Cadmium	0.690	Spike	P	0 - 20
2058985	Chromium	0.0339	Spike	P	0 - 20
2058985	Copper	0.137	Spike	P	0 - 20
2058985	Lead	0.585	Spike	P	0 - 20
2058985	Nickel	0.0985	Spike	P	0 - 20
2058985	Selenium	0.134	Spike	P	0 - 20
2058985	Silver	0.273	Spike	P	0 - 20
2058985	Thallium	2.10	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P358664

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058536	Chloride	0.0678	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P358665

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058864	Chloride	0.139	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P358666

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058536	Sulfate	0.115	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P358667

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058864	Sulfate	0.0478	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P358566

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058661	Ammonia-N	2.03	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P358280

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058689	Kjeldahl Nitrogen	0.857	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P358417

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058630	NO2NO3-N	0.350	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P358295

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058689	Total-P	3.74	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P358137

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058627	O-Phosphate-P	2.02	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	Terbutylazine	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	Metaxyl	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	Terbutylazine	8.90	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P358412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058461	Aldrin	2.24	Spike	P	0 - 30
2058461	Alpha-BHC	8.48	Spike	P	0 - 30
2058461	Alpha-Chlordane	3.40	Spike	P	0 - 30
2058461	Beta-BHC	2.00	Spike	P	0 - 30
2058461	Carbophenothion	27.8	Spike	P	0 - 30
2058461	Chlorothalonil	0.673	Spike	P	0 - 30
2058461	Cypermethrin	9.04	Spike	P	0 - 30
2058461	DDD-p,p'	0.908	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P358412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058461	DDE-p,p'	8.20	Spike	P	0 - 30
2058461	DDT-p,p'	1.08	Spike	P	0 - 30
2058461	Delta-BHC	5.14	Spike	P	0 - 30
2058461	Dicofol	4.18	Spike	P	0 - 30
2058461	Dieldrin	0.869	Spike	P	0 - 30
2058461	Endosulfan I	2.97	Spike	P	0 - 30
2058461	Endosulfan II	8.09	Spike	P	0 - 30
2058461	Endosulfan Sulfate	2.43	Spike	P	0 - 30
2058461	Endrin	9.61	Spike	P	0 - 30
2058461	Endrin Aldehyde	19.3	Spike	P	0 - 30
2058461	Endrin Ketone	0.256	Spike	P	0 - 30
2058461	Gamma-BHC	0.665	Spike	P	0 - 30
2058461	Gamma-Chlordane	4.38	Spike	P	0 - 30
2058461	Heptachlor	2.53	Spike	P	0 - 30
2058461	Heptachlor Epoxide	5.10	Spike	P	0 - 30
2058461	Methoxychlor	0.995	Spike	P	0 - 30
2058461	Mirex	0.853	Spike	P	0 - 30
2058461	Permethrin	1.54	Spike	P	0 - 30
2058461	Trifluralin	0.109	Spike	P	0 - 30
LFB	Aldrin	4.68	LCS	P	0 - 30
LFB	Alpha-BHC	5.89	LCS	P	0 - 30
LFB	Alpha-Chlordane	5.88	LCS	P	0 - 30
LFB	Beta-BHC	2.83	LCS	P	0 - 30
LFB	Carbophenothion	8.45	LCS	P	0 - 30
LFB	Chlorothalonil	15.1	LCS	P	0 - 30
LFB	Cypermethrin	2.95	LCS	P	0 - 30
LFB	DDD-p,p'	2.59	LCS	P	0 - 30
LFB	DDE-p,p'	5.17	LCS	P	0 - 30
LFB	DDT-p,p'	5.89	LCS	P	0 - 30
LFB	Delta-BHC	7.12	LCS	P	0 - 30
LFB	Dicofol	1.20	LCS	P	0 - 30
LFB	Dieldrin	6.58	LCS	P	0 - 30
LFB	Endosulfan I	13.8	LCS	P	0 - 30
LFB	Endosulfan II	10.4	LCS	P	0 - 30
LFB	Endosulfan Sulfate	1.17	LCS	P	0 - 30
LFB	Endrin	2.09	LCS	P	0 - 30
LFB	Endrin Aldehyde	2.66	LCS	P	0 - 30
LFB	Endrin Ketone	1.04	LCS	P	0 - 30
LFB	Gamma-BHC	1.48	LCS	P	0 - 30
LFB	Gamma-Chlordane	3.22	LCS	P	0 - 30
LFB	Heptachlor	6.04	LCS	P	0 - 30
LFB	Heptachlor Epoxide	2.54	LCS	P	0 - 30
LFB	Methoxychlor	3.72	LCS	P	0 - 30
LFB	Mirex	3.15	LCS	P	0 - 30
LFB	Permethrin	6.88	LCS	P	0 - 30
LFB	Trifluralin	5.81	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P358412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058736	Chlordane	1.78	Spike	P	0 - 30
2058736	Toxaphene	0.158	Spike	P	0 - 30
LFB	Chlordane	28.2	LCS	P	0 - 30
LFB	Toxaphene	4.04	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P358148

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058683	Acesulfame K	1.77	Spike	P	0 - 30
2058683	AMPA	19.0	Spike	P	0 - 30
2058683	Endothall	14.3	Spike	P	0 - 30
2058683	Glufosinate	28.8	Spike	P	0 - 30
2058683	Glyphosate	20.5	Spike	P	0 - 30
2058683	Sucralose	3.73	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P358179

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058649	2,4-D	9.79	Spike	P	0 - 30
2058649	Acetaminophen	0.953	Spike	P	0 - 30
2058649	Bentazon	1.92	Spike	P	0 - 30
2058649	Carbamazepine	2.09	Spike	P	0 - 30
2058649	Diuron	12.3	Spike	P	0 - 30
2058649	Fenuron	8.01	Spike	P	0 - 30
2058649	Fluridone	2.37	Spike	P	0 - 30
2058649	Hydrocodone	4.19	Spike	P	0 - 30
2058649	Ibuprofen	6.11	Spike	P	0 - 30
2058649	Imazapyr	4.09	Spike	P	0 - 30
2058649	Imidacloprid	5.89	Spike	P	0 - 30
2058649	Linuron	5.19	Spike	P	0 - 30
2058649	MCPP	0.337	Spike	P	0 - 30
2058649	Naproxen	6.74	Spike	P	0 - 30
2058649	Primidone	2.08	Spike	P	0 - 30
2058649	Pyraclostrobin	17.1	Spike	P	0 - 30
2058649	Triclopyr	2.87	Spike	P	0 - 30
2058732	3-Hydroxycarbofuran	3.48	Spike	P	0 - 30
2058732	Aldicarb	18.2	Spike	P	0 - 30
2058732	Aldicarb Sulfone	9.88	Spike	P	0 - 30
2058732	Aldicarb Sulfoxide	4.83	Spike	P	0 - 30
2058732	Carbaryl	8.12	Spike	P	0 - 30
2058732	Carbofuran	4.80	Spike	P	0 - 30
2058732	Methiocarb	8.53	Spike	P	0 - 30
2058732	Methomyl	7.00	Spike	P	0 - 30
2058732	Oxamyl	4.19	Spike	P	0 - 30
2058732	Propoxur	12.4	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: SM 2120 B
 Batch ID: P358134

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058629	Color (true)	1.48	Sample	P	0 - 20

Reference Method: SM 2320 B-97
 Batch ID: P358652

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058695	Total Alkalinity	0.0584	Sample	P	0 - 1.6

Reference Method: SM 2540 C-97
 Batch ID: P358382

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058691	TDS	1.45	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
 Batch ID: P358656

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058695	Fluoride	0.480	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
 Batch ID: P358329

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2058610	Organic Carbon	0.196	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: 2058730
Field Sample ID: G4SE0126

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	95.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	86.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	58.4	P	30 - 160
EPA 8321B	Diuron-d6	54.3	P	30 - 160
EPA 8321B	Endothall-d6	111	P	40 - 160
EPA 8321B	Endothall-d6	111	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	80.9	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	80.9	P	40 - 160
EPA 8321B	Ibuprofen-d3	92.0	P	30 - 160
EPA 8321B	Primidone-d5	60.8	P	30 - 160
EPA 8321B	Sucralose-d6	75.8	P	40 - 160
EPA 8321B	Sucralose-d6	75.8	P	40 - 160

Lab Sample ID: 2058731
Field Sample ID: G4SE0128

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	91.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	86.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	62.0	P	30 - 160
EPA 8321B	Diuron-d6	53.1	P	30 - 160
EPA 8321B	Endothall-d6	109	P	40 - 160
EPA 8321B	Endothall-d6	109	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	74.8	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	74.8	P	40 - 160
EPA 8321B	Ibuprofen-d3	90.0	P	30 - 160
EPA 8321B	Primidone-d5	70.4	P	30 - 160
EPA 8321B	Sucralose-d6	78.1	P	40 - 160
EPA 8321B	Sucralose-d6	78.1	P	40 - 160

Lab Sample ID: 2058734
Field Sample ID: G4SENNR3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	92.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	85.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	63.8	P	30 - 160
EPA 8321B	Diuron-d6	54.7	P	30 - 160
EPA 8321B	Endothall-d6	109	P	40 - 160
EPA 8321B	Endothall-d6	109	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	75.5	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	75.5	P	40 - 160
EPA 8321B	Ibuprofen-d3	86.0	P	30 - 160
EPA 8321B	Primidone-d5	66.8	P	30 - 160
EPA 8321B	Sucralose-d6	74.3	P	40 - 160
EPA 8321B	Sucralose-d6	74.3	P	40 - 160

Lab Sample ID: 2058735
Field Sample ID: G4SE0114

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	80.2	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2058735
Field Sample ID: G4SE0114

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	86.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	69.5	P	30 - 160
EPA 8321B	Diuron-d6	56.5	P	30 - 160
EPA 8321B	Endothall-d6	110	P	40 - 160
EPA 8321B	Endothall-d6	110	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	70.2	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	70.2	P	40 - 160
EPA 8321B	Ibuprofen-d3	93.5	P	30 - 160
EPA 8321B	Primidone-d5	62.7	P	30 - 160
EPA 8321B	Sucralose-d6	75.8	P	40 - 160
EPA 8321B	Sucralose-d6	75.8	P	40 - 160

Lab Sample ID: 2058736
Field Sample ID: G4SENNR3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	75.2	P	39 - 109
EPA 8270D	Tetrachloro-m-xylene	57.7	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	54.9	P	30 - 103
EPA 8276	PCNB	90.5	P	37 - 143

Lab Sample ID: 2058737
Field Sample ID: G4SE0114

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	63.0	P	39 - 109
EPA 8270D	Tetrachloro-m-xylene	54.7	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	51.0	P	30 - 103
EPA 8276	PCNB	76.9	P	37 - 143

Lab Sample ID: 2058738
Field Sample ID: G4SENNR3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	92.4	P	68 - 130
EPA 8270D	Terbufos-d10	83.5	P	61 - 136

Lab Sample ID: 2058739
Field Sample ID: G4SE0114

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	105	P	68 - 130
EPA 8270D	Terbufos-d10	93.9	P	61 - 136

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B

Run ID: A89126

Included Lab Sample IDs: 2058688, 2058691, 2058694, 2058695

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A89127

Included Lab Sample IDs: 2058690, 2058693, 2058698, 2058699

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.6	98.9	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A89128

Included Lab Sample IDs: 2058688, 2058691, 2058694, 2058695

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

Reference Method: EPA 8321B

Run ID: A89191

Included Lab Sample IDs: 2058730, 2058731, 2058734, 2058735

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	101	105	P/P	60 - 160
Acesulfame K	105	109	P/P	60 - 160
Endothall	78.8	83.5	P/P	60 - 160
Endothall	83.5	88.3	P/P	60 - 160

Reference Method: SM 5310 B-00

Run ID: A89193

Included Lab Sample IDs: 2058689, 2058692, 2058696, 2058697

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.4	99.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A89196

Included Lab Sample IDs: 2058689, 2058692, 2058696, 2058697

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	106	109	P/P	90 - 110
Kjeldahl Nitrogen	108	106	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A89205

Included Lab Sample IDs: 2058688, 2058691, 2058694, 2058695

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A89207

Included Lab Sample IDs: 2058730, 2058731, 2058734, 2058735

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	74.4	78.8	P/P	60 - 160
Sucralose	78.8	75.4	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A89209

Included Lab Sample IDs: 2058689, 2058692, 2058696, 2058697

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.2	98.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A89215

Included Lab Sample IDs: 2058689, 2058692, 2058696, 2058697

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A89233

Included Lab Sample IDs: 2058741, 2058742

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	99.6	99.8	P/P	90 - 110
Barium	99.8	99.3	P/P	90 - 110
Calcium	101	101	P/P	90 - 110
Calcium	101	101	P/P	90 - 110
Iron	102	103	P/P	90 - 110
Iron	103	103	P/P	90 - 110
Magnesium	102	103	P/P	90 - 110
Magnesium	103	102	P/P	90 - 110
Potassium	100	100	P/P	90 - 110
Potassium	100	99.5	P/P	90 - 110
Sodium	105	106	P/P	90 - 110
Sodium	106	103	P/P	90 - 110
Zinc	99.3	99.6	P/P	90 - 110
Zinc	99.6	99.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A89276

Included Lab Sample IDs: 2058689, 2058692, 2058696, 2058697

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	102	104	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A89286

Included Lab Sample IDs: 2058730, 2058731, 2058734, 2058735

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	66.2	79.7	P/P	50 - 150
3-Hydroxycarbofuran	89.4	97.0	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A89286

Included Lab Sample IDs: 2058730, 2058731, 2058734, 2058735

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetaminophen	77.8	87.6	P/P	60 - 160
Aldicarb	67.3	90.9	P/P	60 - 150
Aldicarb Sulfone	85.9	91.4	P/P	50 - 150
Aldicarb Sulfoxide	81.4	83.4	P/P	50 - 150
Bentazon	90.2	104	P/P	50 - 160
Carbamazepine	82.2	95.8	P/P	60 - 150
Carbaryl	104	92.7	P/P	60 - 150
Carbofuran	95.2	100	P/P	50 - 150
Diuron	81.2	87.5	P/P	60 - 150
Fenuron	87.2	92.6	P/P	60 - 150
Fluridone	94.7	98.1	P/P	60 - 160
Hydrocodone	81.0	88.1	P/P	60 - 150
Ibuprofen	95.8	84.9	P/P	50 - 160
Imazapyr	81.8	88.1	P/P	50 - 150
Imidacloprid	74.2	85.4	P/P	60 - 150
Linuron	90.5	97.1	P/P	60 - 150
MCPP	81.9	87.5	P/P	50 - 150
Methiocarb	113	100	P/P	50 - 150
Methomyl	86.9	80.0	P/P	50 - 150
Naproxen	103	82.5	P/P	50 - 160
Oxamyl	89.1	79.7	P/P	50 - 150
Primidone	84.3	86.0	P/P	60 - 150
Propoxur	91.7	93.1	P/P	50 - 150
Pyraclostrobin	95.7	94.1	P/P	60 - 150
Triclopyr	87.4	88.7	P/P	50 - 150

Reference Method: SM 2320 B-97

Run ID: A89314

Included Lab Sample IDs: 2058688, 2058691, 2058694, 2058695

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

Reference Method: SM 4500 F-C-97

Run ID: A89314

Included Lab Sample IDs: 2058688, 2058691, 2058694, 2058695

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

Reference Method: EPA 8276

Run ID: A89325

Included Lab Sample IDs: 2058736

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.7		P	80 - 120
Toxaphene	95.6		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A89328

Included Lab Sample IDs: 2058736, 2058737

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	93.6		P	80 - 120
Alpha-BHC	92.7		P	80 - 120
Alpha-Chlordane	102		P	80 - 120
Beta-BHC	94.0		P	80 - 120
Carbophenothion	97.3		P	80 - 120
Chlorothalonil	87.4		P	80 - 120
Cypermethrin	83.5		P	80 - 120
DDD-p,p'	98.0		P	80 - 120
DDE-p,p'	94.2		P	80 - 120
DDT-p,p'	103		P	80 - 120
Delta-BHC	90.9		P	80 - 120
Dicofol	98.3		P	80 - 120
Dieldrin	93.9		P	80 - 120
Endosulfan I	103		P	80 - 120
Endosulfan II	94.6		P	80 - 120
Endosulfan Sulfate	94.1		P	80 - 120
Endrin	96.5		P	80 - 120
Endrin Aldehyde	95.1		P	80 - 120
Endrin Ketone	96.6		P	80 - 120
Gamma-BHC	93.9		P	80 - 120
Gamma-Chlordane	102		P	80 - 120
Heptachlor	90.8		P	80 - 120
Heptachlor Epoxide	95.3		P	80 - 120
Methoxychlor	99.6		P	80 - 120
Mirex	92.5		P	80 - 120
Permethrin	84.1		P	80 - 120
Trifluralin	95.5		P	80 - 120

Reference Method: EPA 8276

Run ID: A89348

Included Lab Sample IDs: 2058737

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	97.6		P	80 - 120
Toxaphene	99.9		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A89350

Included Lab Sample IDs: 2058741, 2058742

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	101	97.3	P/P	90 - 110
Antimony	102	103	P/P	90 - 110
Boron	94.1	94.2	P/P	90 - 110
Cadmium	99.6	99.7	P/P	90 - 110
Chromium	95.1	99.2	P/P	90 - 110
Copper	97.1	99.6	P/P	90 - 110
Lead	99.6	100	P/P	90 - 110
Silver	99.2	100	P/P	90 - 110
Thallium	90.8	90.8	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A89414

Included Lab Sample IDs: 2058741, 2058742

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	99.2	99.8	P/P	90 - 110
Nickel	100	100	P/P	90 - 110
Selenium	96.8	97.2	P/P	90 - 110

Reference Method: EPA 8270D

Run ID: A89457

Included Lab Sample IDs: 2058738, 2058739

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
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
Metaxyl	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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A89457

Included Lab Sample IDs: 2058738, 2058739

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tebuconazole	94.1		P	80 - 120
Terbufos	92.8		P	80 - 120
Terbuthylazine	98.5		P	80 - 120

Reference Method: EPA 8270D

Run ID: A89465

Included Lab Sample IDs: 2058738

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

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity						10.9	
EPA 200.7 Rev. 4.4	Barium	101		100	100	101		0.539
	Calcium	104		102	107			0.599
	Iron	106		109	107	109		1.64
	Magnesium	111		106	109	112		2.41
	Potassium	103		102	100	102		1.48
	Sodium	106		105	106			0.288
	Zinc	101		102	104	105		0.720
EPA 200.8 Rev. 5.4	Aluminum	99.7		104	97.8	97.2		0.562
	Antimony	103		108	107	108		0.548
	Arsenic	106		110	110	110		0.167
	Boron	95.6		96.6	95.6	94.9		0.561
	Cadmium	102		107	105	105		0.690
	Chromium	98.4		95.7	103	103		0.0339
	Copper	98.3		97.4	102	102		0.137
	Lead	100		101	103	103		0.585
	Nickel	98.6		96.0	100	101		0.0985
	Selenium	97.3		99.3	99.1	99.0		0.134
	Silver	103		104	105	105		0.273
	Thallium	96.2		99.5	100	103		2.10
EPA 300.0 Rev. 2.1	Chloride	101		97.0	98.3		0.0678	
	Chloride	100		98.7	99.3		0.139	
	Sulfate	98.3		99.1	98.0		0.115	
	Sulfate	97.9		100	99.5		0.0478	
EPA 350.1 Rev. 2.0	Ammonia-N	96.1		105	102			2.03
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104						0.857
EPA 353.2 Rev. 2.0	NO2NO3-N	100		97.5				0.350
EPA 365.1 Rev. 2.0	Total-P	99.8		101	97.4			3.74
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100		93.7	96.1			2.02
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	39.6	37.8	55.1	56.4	4.68		2.24
	Alpha-BHC	96.1	90.6	105	96.2	5.89		8.48
	Alpha-Chlordane	69.0	73.2	71.1	68.7	5.88		3.40
	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	137	141	99.2	97.2	2.83		2.00
	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	106	115	115	153	8.45		27.8
	Chlorothalonil	97.4	113	126	127	15.1		0.673
	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	95.7	92.9	95.4	104	2.95		9.04
	DDD-p,p'	92.0	89.6	85.7	85.0	2.59		0.908
	DDE-p,p'	65.8	69.3	68.1	73.9	5.17		8.20
	DDT-p,p'	84.6	79.7	86.8	87.8	5.89		1.08
	Delta-BHC	134	144	122	115	7.12		5.14
	Demeton	70.5	71.4	93.9	100	1.27		6.72
	Diazinon	98.3	89.6	103	129	9.33		22.7
	Dicofol	82.1	81.1	82.9	79.5	1.20		4.18

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Dieldrin	74.1	79.1	73.0	73.7	6.58	0.869
	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	72.6	83.3	76.1	78.4	13.8	2.97
	Endosulfan II	107	119	127	138	10.4	8.09
	Endosulfan Sulfate	100	102	105	102	1.17	2.43
	Endrin	89.3	87.5	91.0	82.6	2.09	9.61
	Endrin Aldehyde	105	108	97.7	80.5	2.66	19.3
	Endrin Ketone	93.6	92.7	93.4	93.1	1.04	0.256
	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	133	135	116	115	1.48	0.665
	Gamma-Chlordane	67.6	69.9	72.2	69.1	3.22	4.38
	Heptachlor	58.9	55.4	64.1	65.7	6.04	2.53
	Heptachlor Epoxide	79.1	77.1	75.8	72.0	2.54	5.10
	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	106	102	98.2	97.2	3.72	0.995
	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	47.3	45.8	57.7	58.2	3.15	0.853
	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	85.7	80.0	90.9	92.3	6.88	1.54
	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	75.2	71.0	73.7	73.6	5.81	0.109
EPA 8276	Chlordane	90.0	67.8	61.7	60.6	28.2	1.78
	Toxaphene	67.6	65.0	57.0	56.9	4.04	0.158
EPA 8321B	2,4-D	89.7		91.0	101		9.79
	3-Hydroxycarbofuran	70.2		54.8	56.8		3.48
	Acesulfame K	115		78.4	77.0		1.77
	Acetaminophen	101		93.7	94.8		0.953
	Aldicarb	61.5		36.5	43.8		18.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8321B	Aldicarb Sulfone	100	78.9	71.5			9.88
	Aldicarb Sulfoxide	104	36.5	34.8			4.83
	AMPA	127					19.0
	Bentazon	86.8	37.1	32.9			1.92
	Carbamazepine	95.7	73.4	74.9			2.09
	Carbaryl	65.8	44.7	41.2			8.12
	Carbofuran	70.8	44.4	42.3			4.80
	Diuron	70.5	58.2	50.9			12.3
	Endothall	93.8	98.1	85.0			14.3
	Fenuron	124	80.7	87.4			8.01
	Fluridone	102	85.8	82.8			2.37
	Glufosinate	72.5	95.7	128			28.8
	Glyphosate	85.0					20.5
	Hydrocodone	112	97.9	102			4.19
	Ibuprofen	91.2	87.6	82.4			6.11
	Imazapyr	101	109	98.1			4.09
	Imidacloprid	105	140	150			5.89
	Linuron	69.9	55.6	52.8			5.19
	MCPP	128	121	121			0.337
	Methiocarb	62.1	46.9	43.1			8.53
	Methomyl	108	69.3	64.6			7.00
	Naproxen	53.2	70.3	65.7			6.74
	Oxamyl	98.6	65.9	63.2			4.19
	Primidone	92.8	101	99.2			2.08
	Propoxur	76.3	45.3	40.0			12.4
	Pyraclostrobin	50.9	65.0	54.8			17.1
	Sucralose	82.5	78.4	82.8			3.73
	Triclopyr	76.8	79.8	77.6			2.87
SM 2120 B	Color (true)	101				1.48	
SM 2320 B-97	Total Alkalinity	103				0.0584	
SM 2540 C-97	TDS					1.45	
SM 4500 F-C-97	Fluoride	96.8	99.0	98.2			0.480
SM 5310 B-00	Organic Carbon	98.8	98.4	98.1			0.196

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2058688, 2058691, 2058694, 2058695
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2058741, 2058742
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2058741, 2058742
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2058688, 2058691, 2058694, 2058695
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2058688, 2058691, 2058694, 2058695
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2058689, 2058692, 2058696, 2058697
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2058689, 2058692, 2058696, 2058697
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2058689, 2058692, 2058696, 2058697
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2058689, 2058692, 2058696, 2058697

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2058690, 2058693, 2058698, 2058699
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	2058736, 2058737
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2058738, 2058739
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2058736, 2058737
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	2058732, 2058733
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2058730, 2058731, 2058734, 2058735
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	2058730, 2058731, 2058734, 2058735
SM 2120 B / E31780	True Color measured at 450 nm	2058688, 2058691, 2058694, 2058695
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2058688, 2058691, 2058694, 2058695
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2058688, 2058691, 2058694, 2058695
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2058688, 2058691, 2058694, 2058695
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2058688, 2058691, 2058694, 2058695
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2058689, 2058692, 2058696, 2058697

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	01/31/2019			01/31/2019 16:32	Adrian Shelby	2058688, 2058691, 2058694, 2058695
EPA 200.7 Rev. 4.4	01/31/2019	02/05/2019 15:15	Elliott D. Healy	02/06/2019 14:34	Betina Topolski	2058741
	01/31/2019	02/05/2019 15:15	Elliott D. Healy	02/06/2019 14:57	Betina Topolski	2058742
EPA 200.8 Rev. 5.4	01/31/2019	02/05/2019 15:15	Elliott D. Healy	02/09/2019 04:14	Allison Taylor	2058741
	01/31/2019	02/05/2019 15:15	Elliott D. Healy	02/09/2019 04:24	Allison Taylor	2058742
	01/31/2019	02/05/2019 15:15	Elliott D. Healy	02/14/2019 04:13	Allison Taylor	2058741
	01/31/2019	02/05/2019 15:15	Elliott D. Healy	02/14/2019 04:20	Allison Taylor	2058742
EPA 300.0 Rev. 2.1	01/31/2019			02/07/2019 22:51	Lipi Saha	2058688
	01/31/2019			02/07/2019 23:06	Lipi Saha	2058691
	01/31/2019			02/07/2019 23:21	Lipi Saha	2058694
	01/31/2019			02/08/2019 02:03	Lipi Saha	2058695
EPA 350.1 Rev. 2.0	01/31/2019			02/07/2019 12:30	Ping Hua	2058689
	01/31/2019			02/07/2019 12:32	Ping Hua	2058692
	01/31/2019			02/07/2019 12:33	Ping Hua	2058696
	01/31/2019			02/07/2019 12:35	Ping Hua	2058697
EPA 351.2 Rev. 2.0	01/31/2019	02/04/2019 12:25	Adrian Shelby	02/05/2019 12:52	Joseph Suarez	2058689
	01/31/2019	02/04/2019 12:25	Adrian Shelby	02/05/2019 13:00	Joseph Suarez	2058692
	01/31/2019	02/04/2019 12:25	Adrian Shelby	02/05/2019 13:02	Joseph Suarez	2058696
	01/31/2019	02/04/2019 12:25	Adrian Shelby	02/05/2019 13:03	Joseph Suarez	2058697
EPA 353.2 Rev. 2.0	01/31/2019			02/06/2019 08:54	Beverly Y. Sanders	2058689
	01/31/2019			02/06/2019 08:56	Beverly Y. Sanders	2058692
	01/31/2019			02/06/2019 08:57	Beverly Y. Sanders	2058696
	01/31/2019			02/06/2019 08:58	Beverly Y. Sanders	2058697
EPA 365.1 Rev. 2.0	01/31/2019	02/04/2019 13:15	Sima Feizi	02/05/2019 16:54	Rosalyn Ballman	2058689
	01/31/2019	02/04/2019 13:15	Sima Feizi	02/05/2019 16:55	Rosalyn Ballman	2058692
	01/31/2019	02/04/2019 13:15	Sima Feizi	02/05/2019 16:56	Rosalyn Ballman	2058696
	01/31/2019	02/04/2019 13:15	Sima Feizi	02/05/2019 16:57	Rosalyn Ballman	2058697
EPA 365.1 Rev. 2.0 dissolved	01/31/2019			01/31/2019 16:00	Jhamieka S. Greenwood	2058690, 2058693
	01/31/2019			01/31/2019 16:01	Jhamieka S. Greenwood	2058698
	01/31/2019			01/31/2019 16:02	Jhamieka S. Greenwood	2058699
EPA 8270D	01/31/2019	02/01/2019 08:30	Rasheda Ghaffari	02/05/2019 03:18	Vandana T. Nagar	2058738
	01/31/2019	02/01/2019 08:30	Rasheda Ghaffari	02/05/2019 03:42	Vandana T. Nagar	2058739
	01/31/2019	02/01/2019 08:30	Rasheda Ghaffari	02/15/2019 19:12	Vandana T. Nagar	2058738
	01/31/2019	02/05/2019 08:00	Rasheda Ghaffari	02/07/2019 22:45	Dinesh Mishra	2058736
	01/31/2019	02/05/2019 08:00	Rasheda Ghaffari	02/07/2019 23:17	Dinesh Mishra	2058737
EPA 8276	01/31/2019	02/05/2019 08:00	Rasheda Ghaffari	02/08/2019 08:07	Arthur Maknenko	2058736
	01/31/2019	02/05/2019 08:00	Rasheda Ghaffari	02/11/2019 21:35	Arthur Maknenko	2058737
EPA 8321B	01/31/2019	02/01/2019 14:30	Rebecca Ware	02/02/2019 17:07	Rebecca Ware	2058730
	01/31/2019	02/01/2019 14:30	Rebecca Ware	02/02/2019 17:18	Rebecca Ware	2058731
	01/31/2019	02/01/2019 14:30	Rebecca Ware	02/02/2019 17:28	Rebecca Ware	2058734

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	01/31/2019	02/01/2019 14:30	Rebecca Ware	02/02/2019 17:39	Rebecca Ware	2058735
	01/31/2019	02/01/2019 14:30	Rebecca Ware	02/03/2019 12:22	Rebecca Ware	2058730
	01/31/2019	02/01/2019 14:30	Rebecca Ware	02/03/2019 12:50	Rebecca Ware	2058731
	01/31/2019	02/01/2019 14:30	Rebecca Ware	02/03/2019 13:03	Rebecca Ware	2058734
	01/31/2019	02/01/2019 14:30	Rebecca Ware	02/03/2019 13:17	Rebecca Ware	2058735
	01/31/2019	02/01/2019 14:30	Rebecca Ware	02/05/2019 05:31	Rebecca Ware	2058730
	01/31/2019	02/01/2019 14:30	Rebecca Ware	02/05/2019 05:59	Rebecca Ware	2058731
	01/31/2019	02/01/2019 14:30	Rebecca Ware	02/05/2019 06:13	Rebecca Ware	2058734
	01/31/2019	02/01/2019 14:30	Rebecca Ware	02/05/2019 06:26	Rebecca Ware	2058735
	01/31/2019	02/06/2019 09:00	Hoor Shaik	02/06/2019 21:25	Juyoung Kim	2058730
	01/31/2019	02/06/2019 09:00	Hoor Shaik	02/06/2019 21:59	Juyoung Kim	2058731
	01/31/2019	02/06/2019 09:00	Hoor Shaik	02/06/2019 22:34	Juyoung Kim	2058734
	01/31/2019	02/06/2019 09:00	Hoor Shaik	02/06/2019 23:09	Juyoung Kim	2058735
	01/31/2019	02/06/2019 09:00	Hoor Shaik	02/07/2019 11:54	Juyoung Kim	2058732
	01/31/2019	02/06/2019 09:00	Hoor Shaik	02/07/2019 12:29	Juyoung Kim	2058733
SM 2120 B	01/31/2019			01/31/2019 16:08	Julia Storbeck	2058688
	01/31/2019			01/31/2019 16:09	Julia Storbeck	2058691, 2058694
	01/31/2019			01/31/2019 16:10	Julia Storbeck	2058695
SM 2320 B-97	01/31/2019			02/09/2019 12:05	Dale L. Simmons	2058695
	01/31/2019			02/09/2019 13:18	Dale L. Simmons	2058688
	01/31/2019			02/09/2019 13:32	Dale L. Simmons	2058691
	01/31/2019			02/09/2019 13:45	Dale L. Simmons	2058694
SM 2540 C-97	01/31/2019			02/01/2019 15:25	Mariam Hanna	2058688, 2058691, 2058694, 2058695
SM 2540 D-97	01/31/2019			02/01/2019 16:00	Mariam Hanna	2058688, 2058691, 2058694, 2058695
SM 4500 F-C-97	01/31/2019			02/09/2019 11:53	Dale L. Simmons	2058695
	01/31/2019			02/09/2019 13:18	Dale L. Simmons	2058688
	01/31/2019			02/09/2019 13:32	Dale L. Simmons	2058691
	01/31/2019			02/09/2019 13:45	Dale L. Simmons	2058694
SM 5310 B-00	01/31/2019			02/05/2019 06:44	Julia Storbeck	2058689
	01/31/2019			02/05/2019 06:56	Julia Storbeck	2058692
	01/31/2019			02/05/2019 07:09	Julia Storbeck	2058696
	01/31/2019			02/05/2019 07:21	Julia Storbeck	2058697