

Chemical Analysis Report

NW-DIST-2019-02-06-01

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

Event Description: **Perdido/Bridge**
Request ID: **RQ-2019-01-28-10**
Customer: **NW-DIST**
Project ID: **SMP**

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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 04-MAR-2019 17:06



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: 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: Sanders Beach south of Sanders Beach Park Collection Date/Time: 02/05/2019 10:15

Field ID: G4NW0484

Matrix: W-BRACKISH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2060266	EPA 8321B	2,4-D	0.0022	I	ug/L	P358394	
		Sucralose**	0.029	I	ug/L	P358378	
		Bentazon	8.0E-04	U	ug/L	P358394	
		MCP	0.0020	U	ug/L	P358394	
		Triclopyr**	0.0040	U	ug/L	P358394	
		Imidacloprid	0.0076	I	ug/L	P358394	MS
		Diuron	0.0020	U	ug/L	P358394	
		Pyraclostrobin**	0.0020	U	ug/L	P358394	
		Primidone**	0.0040	U	ug/L	P358394	
		Linuron	0.0040	U	ug/L	P358394	
		Acetaminophen**	0.0080	U	ug/L	P358394	
		Fenuron	0.016	U	ug/L	P358394	
		Imazapyr**	0.023		ug/L	P358394	
		Carbamazepine**	8.0E-04	U	ug/L	P358394	
		Fluridone**	8.0E-04	U	ug/L	P358394	
		Hydrocodone**	0.0020	U	ug/L	P358394	
		Naproxen**	0.0080	U	ug/L	P358394	
		Ibuprofen**	0.020	U	ug/L	P358394	
		Glyphosate**	0.10	UJ	ug/L	P358378	SUR
		AMPA**	0.10	UJ	ug/L	P358378	SUR
		Endothall**	0.25	U	ug/L	P358378	
		Glufosinate**	0.10	UJ	ug/L	P358378	SUR
		Acesulfame K**	0.10	U	ug/L	P358378	

Ref. Method and Comment:

EPA 8321B: Estimation due to surrogate failure, results confirmed in re-extraction. Refer to the narrative for an explanation of QC Codes.

Sample Location: BAYOU CHICO

Collection Date/Time: 02/05/2019 10:40

Field ID: G4NW0483

Matrix: W-BRACKISH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2060267	EPA 8321B	2,4-D	0.0020	U	ug/L	P358394	
		Sucralose**	0.63		ug/L	P358378	
		Bentazon	0.0014	I	ug/L	P358394	
		MCP	0.0020	U	ug/L	P358394	
		Triclopyr**	0.0040	U	ug/L	P358394	
		Imidacloprid	0.018		ug/L	P358394	MS
		Diuron	0.0020	U	ug/L	P358394	
		Pyraclostrobin**	0.0020	U	ug/L	P358394	
		Primidone**	0.0040	U	ug/L	P358394	
		Linuron	0.0040	U	ug/L	P358394	
		Acetaminophen**	0.031	I	ug/L	P358394	
		Fenuron	0.016	U	ug/L	P358394	
		Imazapyr**	0.0098	I	ug/L	P358394	
		Carbamazepine**	0.0036		ug/L	P358394	
		Fluridone**	8.0E-04	U	ug/L	P358394	
		Hydrocodone**	0.0020	U	ug/L	P358394	
		Naproxen**	0.0080	U	ug/L	P358394	
		Ibuprofen**	0.020	U	ug/L	P358394	
		Glyphosate**	0.10	UJ	ug/L	P358378	SUR
		AMPA**	0.10	UJ	ug/L	P358378	SUR
		Endothall**	0.25	U	ug/L	P358378	
		Glufosinate**	0.10	UJ	ug/L	P358378	SUR
		Acesulfame K**	0.10	U	ug/L	P358378	

Ref. Method and Comment:

EPA 8321B: Estimation due to surrogate failure, results confirmed in re-extraction. Refer to the narrative for an explanation of QC Codes.

Sample Location: Weekly Bayou Creek @ County Rd 293

Collection Date/Time: 02/05/2019 11:30

Field ID: G4NW0482

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2060242	EPA 180.1 Rev. 2.0	Turbidity	0.80		NTU	P358462	
	EPA 300.0 Rev. 2.1	Chloride	8.3		mg Cl/L	P359197	
		Sulfate	1.2		mg SO4/L	P359199	
	SM 2120 B	Color (true)	100		PCU	P358454	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P358921	RPD
	SM 2540 C-97	TDS	47		mg/L	P359064	
	SM 2540 D-97	TSS	2	U	mg/L	P358945	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P358925	
2060244	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P358797	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.27		mg N/L	P358698	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.012		mg N/L	P358772	
	EPA 365.1 Rev. 2.0	Total-P	0.005	I	mg P/L	P358617	
	SM 5310 B-00	Organic Carbon	9.5		mg C/L	P358672	
2060246	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P358449	

Ref. Method and Comment:

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

Sample Location: Bridge Creek (Tidal Portion)

Collection Date/Time: 02/05/2019 12:05

Field ID: G5NW0129

Matrix: W-BRACKISH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2060239	EPA 180.1 Rev. 2.0	Turbidity	2.4		NTU	P358462	
	EPA 300.0 Rev. 2.1	Chloride	2.8E+03		mg Cl/L	P359271	
		Sulfate	410		mg SO4/L	P359274	
	SM 2120 B	Color (true)	28		PCU	P358454	
	SM 2320 B-97	Total Alkalinity	26		mg CaCO3/L	P359100	
	SM 2540 C-97	TDS	5.26E+03		mg/L	P359063	
	SM 2540 D-97	TSS	4	I	mg/L	P358944	
	SM 4500 F-C-97	Fluoride	0.19		mg F/L	P359122	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.025		mg N/L	P358641	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.31	I	mg N/L	P358699	
2060240	EPA 353.2 Rev. 2.0	NO2NO3-N	0.13		mg N/L	P359043	
	EPA 365.1 Rev. 2.0	Total-P	0.012		mg P/L	P358615	
	SM 5310 B-00	Organic Carbon	4.9		mg C/L	P358672	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P358450	
	EPA 8321B	Aldicarb	0.020	U	ug/L	P358394	
2060264		Aldicarb Sulfone	0.0020	U	ug/L	P358394	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P358394	
		Carbaryl	0.0020	U	ug/L	P358394	
		Carbofuran	0.0020	U	ug/L	P358394	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P358394	
		Methiocarb	0.0020	U	ug/L	P358394	
		Methomyl	0.0020	U	ug/L	P358394	
		Oxamyl	0.0020	U	ug/L	P358394	
		Propoxur	0.0020	U	ug/L	P358394	
		2,4-D	0.052		ug/L	P358394	
		Sucralose**	0.51		ug/L	P358378	
		Bentazon	8.9E-04	I	ug/L	P358394	
		MCP	0.0020	U	ug/L	P358394	
		Triclopyr**	0.0040	U	ug/L	P358394	
		Imidacloprid	0.033		ug/L	P358394	MS
		Diuron	0.0020	U	ug/L	P358394	
		Pyraclostrobin**	0.0020	U	ug/L	P358394	
		Primidone**	0.0040	U	ug/L	P358394	
		Linuron	0.0040	U	ug/L	P358394	
		Acetaminophen**	0.0080	U	ug/L	P358394	
2060265		Fenuron	0.016	U	ug/L	P358394	
		Imazapyr**	0.0066	I	ug/L	P358394	
		Carbamazepine**	8.3E-04	I	ug/L	P358394	
		Fluridone**	8.0E-04	U	ug/L	P358394	
		Hydrocodone**	0.0020	U	ug/L	P358394	
		Naproxen**	0.0080	U	ug/L	P358394	
		Ibuprofen**	0.020	U	ug/L	P358394	
		Glyphosate**	0.10	UJ	ug/L	P358378	SUR

Field ID: G5NW0129

Matrix: W-BRACKISH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2060265	EPA 8321B	AMPA**	0.10	UJ	ug/L	P358378	SUR
		Endothall**	0.25	U	ug/L	P358378	
		Glufosinate**	0.10	UJ	ug/L	P358378	SUR
		Acesulfame K**	0.10	U	ug/L	P358378	
2060275	EPA 8270D	Aldrin	4.8	U	ng/L	P358586	
		Alpha-BHC	2.4	U	ng/L	P358586	
		Alpha-Chlordane	1.2	U	ng/L	P358586	
		Beta-BHC	12	U	ng/L	P358586	
		Delta-BHC	12	U	ng/L	P358586	
		Gamma-BHC	12	U	ng/L	P358586	
		Carbophenothion	14	U	ng/L	P358586	
		Chlorothalonil	2.4	U	ng/L	P358586	
		Cypermethrin	24	U	ng/L	P358586	
		DDD-p,p'	9.6	U	ng/L	P358586	
		DDE-p,p'	9.6	U	ng/L	P358586	
		DDT-p,p'	12	U	ng/L	P358586	
		Dicofol	36	U	ng/L	P358586	
		Dieldrin	4.8	U	ng/L	P358586	
		Endosulfan I	4.8	U	ng/L	P358586	
		Endosulfan II	4.8	U	ng/L	P358586	
		Endosulfan Sulfate	2.4	U	ng/L	P358586	
		Endrin	2.4	U	ng/L	P358586	
		Endrin Aldehyde	2.4	U	ng/L	P358586	
		Endrin Ketone	2.4	U	ng/L	P358586	
		Gamma-Chlordane	1.2	U	ng/L	P358586	
		Heptachlor	1.8	U	ng/L	P358586	
		Heptachlor Epoxide	2.4	U	ng/L	P358586	
		Methoxychlor	4.8	U	ng/L	P358586	
		Mirex	2.4	U	ng/L	P358586	
		Permethrin	12	U	ng/L	P358586	
		Trifluralin	3.0	U	ng/L	P358586	
	EPA 8276	Chlordane	6.0	U	ng/L	P358586	
		Toxaphene	36	U	ng/L	P358586	
2060276	EPA 8270D	Acetochlor	0.25	U	ng/L	P358410	
		Alachlor	0.25	U	ng/L	P358410	
		Ametryn	0.61	U	ng/L	P358410	
		Atrazine	14		ng/L	P358410	
		Atrazine Desethyl	1.9	I	ng/L	P358410	
		Azinphos Methyl	2.3	U	ng/L	P358410	
		Bromacil	1.2	I	ng/L	P358410	
		Butylate	0.40	U	ng/L	P358410	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P358410	
		Chlorpyrifos Methyl	0.10	U	ng/L	P358410	
		Cyanazine	3.3	UJ	ng/L	P358410	RPD
		Demeton	7.1	U	ng/L	P358410	

Field ID: G5NW0129

Matrix: W-BRACKISH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2060276	EPA 8270D	Diazinon	0.13	U	ng/L	P358410	
		Dimethenamid**	1.0		ng/L	P358410	
		Disulfoton	0.51	U	ng/L	P358410	
		Dithiopyr**	0.10	U	ng/L	P358410	
		EPTC	1.3	U	ng/L	P358410	
		Ethion	0.15	UJ	ng/L	P358410	RPD
		Ethoprop	0.10	U	ng/L	P358410	
		Fenamiphos	0.51	U	ng/L	P358410	
		Fipronil	1.7		ng/L	P358410	
		Fipronil Desulfinyl**	0.21	I	ng/L	P358410	
		Fipronil Sulfide	0.46	I	ng/L	P358410	
		Fipronil Sulfone	0.95		ng/L	P358410	
		Fonofos	0.20	U	ng/L	P358410	
		Hexazinone	0.51	U	ng/L	P358410	
		Malathion	0.35	U	ng/L	P358410	
		Metalaxyl	0.30	U	ng/L	P358410	
		Metolachlor	1.6	I	ng/L	P358410	
		Metribuzin	0.20	UJ	ng/L	P358410	CCV
		Mevinphos	0.51	U	ng/L	P358410	
		Molinate	0.30	U	ng/L	P358410	
		Norflurazon	0.51	U	ng/L	P358410	
		Oxadiazon**	0.13	I	ng/L	P358410	
		Parathion Ethyl	0.25	U	ng/L	P358410	
		Parathion Methyl	0.56	U	ng/L	P358410	
		Pendimethalin	1.0	U	ng/L	P358410	
		Phorate	0.25	U	ng/L	P358410	
		Prodiamine**	0.18	U	ng/L	P358410	
		Prometon	0.91	U	ng/L	P358410	
		Prometryn	0.20	U	ng/L	P358410	
		Simazine	4.1		ng/L	P358410	
		Tebuconazole**	0.58	I	ng/L	P358410	
		Terbufos	0.10	U	ng/L	P358410	
		Terbuthylazine	0.43	U	ng/L	P358410	

Ref. Method and Comment:

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

EPA 8321B: Estimation due to surrogate failure, results confirmed in re-extraction. Refer to the narrative for an explanation of QC Codes.

EPA 8270D: MS accuracies for Atrazine and Simazine not assessed due to high content of these parameters in the sample spiked. Refer to the narrative for an explanation of QC Codes.

Sample Location: Perdido Bay (lower segment) off DuPont point Collection Date/Time: 02/05/2019 12:45

Field ID: G5NW0130

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2060243	EPA 180.1 Rev. 2.0	Turbidity	2.2		NTU	P358459	
	EPA 300.0 Rev. 2.1	Chloride	2.9E+03		mg Cl/L	P359197	
		Sulfate	420		mg SO4/L	P359199	
	SM 2120 B	Color (true)	25		PCU	P358454	
	SM 2320 B-97	Total Alkalinity	26		mg CaCO3/L	P359100	
	SM 2540 C-97	TDS	5.04E+03		mg/L	P359064	
	SM 2540 D-97	TSS	2	I	mg/L	P358945	
	SM 4500 F-C-97	Fluoride	0.21		mg F/L	P359104	
2060245	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	I	mg N/L	P358798	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.28	I	mg N/L	P358699	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.17		mg N/L	P359043	
	EPA 365.1 Rev. 2.0	Total-P	0.01	I	mg P/L	P358615	
	SM 5310 B-00	Organic Carbon	4.2		mg C/L	P358672	
2060247	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P358450	

Ref. Method and Comment:

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P358459

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P358462

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359197

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359199

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359271

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359274

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P358641

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P358797

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P358798

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P358698

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P358699

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P358772

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359043

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P358615

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P358617

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P358449

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P358450

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

Reference Method: EPA 8270D
Batch ID: P358410

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270D
Batch ID: P358410

Component	Result	Code	Units
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.2	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Cyanazine	3.2	U	ng/L
Demeton	7.0	U	ng/L
Diazinon	0.12	U	ng/L
Dimethenamid	0.10	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.10	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Fenamiphos	0.50	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Malathion	0.35	U	ng/L
Metaxyl	0.30	U	ng/L
Metolachlor	0.50	U	ng/L
Metribuzin	0.20	U	ng/L
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Norflurazon	0.50	U	ng/L
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: P358586

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270D
Batch ID: P358586

Component	Result	Code	Units
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
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: P358586

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

Reference Method: EPA 8321B
Batch ID: P358378

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: P358394

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P358394

Component	Result	Code	Units
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

Reference Method: SM 2120 B
Batch ID: P358454

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P358921

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

Reference Method: SM 2320 B-97
Batch ID: P359100

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

Reference Method: SM 2540 C-97
Batch ID: P359063

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P359064

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 D-97
Batch ID: P358944

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P358945

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P358925

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P359104

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P359122

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P358672

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359197

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359199

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359271

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	95.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359274

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	95.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P358641

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P358797

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P358798

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P358698

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P358699

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P358772

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	98.0		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359043

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: P358615

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P358617

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P358449

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P358450

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

Reference Method: EPA 8270D
Batch ID: P358410

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	88.4	112	P/P	71 - 121
Alachlor	89.8	106	P/P	72 - 119
Ametryn	105	121	P/P	47 - 144
Atrazine	115	118	P/P	75 - 123
Atrazine Desethyl	84.0	95.6	P/P	45 - 133
Azinphos Methyl	104	135	P/P	66 - 165
Bromacil	56.6	60.1	P/P	43 - 123
Butylate	59.7	63.3	P/P	27 - 83.0
Chlorpyrifos Ethyl	86.6	87.4	P/P	70 - 117
Chlorpyrifos Methyl	85.9	93.7	P/P	71 - 120
Cyanazine	110	162	P/P	34 - 264
Demeton	84.0	102	P/P	41 - 122
Diazinon	89.4	113	P/P	70 - 127
Dimethenamid	84.5	106	P/P	60 - 130
Disulfoton	88.2	98.8	P/P	56 - 127
Dithiopyr	88.8	106	P/P	60 - 130

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P358410

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
EPTC	57.8	62.2	P/P	24 - 84.0
Ethion	92.4	61.1	P/P	53 - 132
Ethoprop	87.0	95.3	P/P	57 - 117
Fenamiphos	86.6	69.1	P/P	55 - 136
Fipronil	81.7	90.0	P/P	64 - 126
Fipronil Desulfinyl	78.6	79.1	P/P	60 - 130
Fipronil Sulfide	86.0	69.6	P/P	57 - 120
Fipronil Sulfone	83.7	83.0	P/P	52 - 115
Fonofos	84.7	89.3	P/P	61 - 121
Hexazinone	108	99.1	P/P	62 - 131
Malathion	94.8	82.7	P/P	67 - 126
Metaxyl	93.5	91.3	P/P	54 - 128
Metolachlor	90.1	106	P/P	71 - 118
Metribuzin	142	160	P/P	42 - 221
Mevinphos	81.2	74.6	P/P	45 - 114
Molinate	67.8	78.7	P/P	33 - 91.0
Norflurazon	84.0	91.6	P/P	60 - 123
Oxadiazon	91.1	83.0	P/P	60 - 130
Parathion Ethyl	88.2	85.4	P/P	73 - 111
Parathion Methyl	102	122	P/P	74 - 126
Pendimethalin	89.9	92.0	P/P	63 - 131
Phorate	92.7	107	P/P	54 - 115
Prodiamine	104	98.3	P/P	60 - 130
Prometon	88.4	91.5	P/P	61 - 120
Prometryn	90.7	87.8	P/P	62 - 126
Simazine	101	94.4	P/P	75 - 126
Tebuconazole	85.9	72.0	P/P	30 - 100
Terbufos	88.7	97.3	P/P	65 - 116
Terbutylazine	95.9	99.0	P/P	73 - 117

Reference Method: EPA 8270D
Batch ID: P358586

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	43.1	45.9	P/P	20 - 93.0
Alpha-BHC	89.7	89.0	P/P	57 - 119
Alpha-Chlordane	73.2	74.9	P/P	58 - 112
Beta-BHC	123	118	P/P	56 - 149
Carbophenothion	39.5	44.5	P/P	26 - 147
Chlorothalonil	64.1	62.1	P/P	20 - 155
Cypermethrin	102	107	P/P	40 - 137
DDD-p,p'	93.4	100	P/P	65 - 129
DDE-p,p'	69.4	75.4	P/P	57 - 116
DDT-p,p'	79.1	81.7	P/P	53 - 133
Delta-BHC	134	127	P/P	59 - 163
Dicofol	74.9	75.1	P/P	24 - 138
Dieldrin	75.6	76.9	P/P	60 - 120
Endosulfan I	80.4	82.6	P/P	64 - 118
Endosulfan II	103	99.7	P/P	58 - 142
Endosulfan Sulfate	98.8	97.0	P/P	60 - 127
Endrin	92.1	83.2	P/P	59 - 122
Endrin Aldehyde	99.6	102	P/P	49 - 132

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P358586

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endrin Ketone	86.9	83.9	P/P	64 - 121
Gamma-BHC	102	106	P/P	56 - 141
Gamma-Chlordane	71.6	75.2	P/P	56 - 110
Heptachlor	61.9	66.0	P/P	46 - 96.0
Heptachlor Epoxide	76.9	76.9	P/P	61 - 112
Methoxychlor	99.6	97.7	P/P	63 - 134
Mirex	54.7	53.9	P/P	45 - 100
Permethrin	88.2	93.1	P/P	53 - 115
Trifluralin	74.0	75.0	P/P	39 - 142

Reference Method: EPA 8276
Batch ID: P358586

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	63.6	64.8	P/P	43 - 128
Toxaphene	75.4	70.2	P/P	38 - 140

Reference Method: EPA 8321B
Batch ID: P358378

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	113		P	40 - 150
AMPA	91.1		P	40 - 150
Endothall	98.8		P	40 - 150
Glufosinate	71.3		P	40 - 150
Glyphosate	79.3		P	40 - 140
Sucralose	99.4		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P358394

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	87.2		P	40 - 150
3-Hydroxycarbofuran	110		P	40 - 150
Acetaminophen	89.9		P	30 - 150
Aldicarb	117		P	30 - 150
Aldicarb Sulfone	100		P	40 - 150
Aldicarb Sulfoxide	107		P	40 - 150
Bentazon	98.3		P	30 - 150
Carbamazepine	88.5		P	40 - 150
Carbaryl	82.9		P	40 - 150
Carbofuran	79.8		P	40 - 150
Diuron	78.2		P	40 - 150
Fenuron	117		P	40 - 150
Fluridone	104		P	40 - 150
Hydrocodone	98.7		P	40 - 150
Ibuprofen	85.3		P	40 - 150
Imazapyr	92.7		P	40 - 150
Imidacloprid	94.4		P	40 - 150
Linuron	77.0		P	40 - 150
MCPP	115		P	40 - 150
Methiocarb	79.6		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P358394

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Methomyl	102		P	40 - 150
Naproxen	95.6		P	40 - 150
Oxamyl	110		P	40 - 150
Primidone	95.5		P	40 - 150
Propoxur	85.1		P	40 - 150
Pyraclostrobin	65.5		P	40 - 150
Triclopyr	75.5		P	40 - 150

Reference Method: SM 2120 B
Batch ID: P358454

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

Reference Method: SM 2320 B-97
Batch ID: P358921

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

Reference Method: SM 2320 B-97
Batch ID: P359100

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	98 - 107

Reference Method: SM 4500 F-C-97
Batch ID: P358925

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.1		P	91 - 105

Reference Method: SM 4500 F-C-97
Batch ID: P359104

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.3		P	91 - 105

Reference Method: SM 4500 F-C-97
Batch ID: P359122

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	93.1		P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P358672

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359197

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2060053	Chloride	97.7		P	90 - 110
2060208	Chloride	91.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359199

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2060053	Sulfate	97.3		P	90 - 110
2060208	Sulfate	94.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359271

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2059842	Chloride	98.4		P	90 - 110
2060443	Chloride	95.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359274

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2059842	Sulfate	96.8		P	90 - 110
2060443	Sulfate	94.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P358641

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2059298	Ammonia-N	99.6	99.3	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P358797

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2060244	Ammonia-N	101	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P358798

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2060245	Ammonia-N	101	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P358698

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2060257	Kjeldahl Nitrogen	107	108	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P358699

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P358699

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2060245	Kjeldahl Nitrogen	106	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P358772

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2060209	NO2NO3-N	98.9	98.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359043

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2060120	NO2NO3-N	102	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P358615

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2060295	Total-P	97.6	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P358617

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2060259	Total-P	102	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P358449

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2060066	O-Phosphate-P	97.0	97.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P358450

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2060247	O-Phosphate-P	94.7	96.7	P/P	90 - 110

Reference Method: EPA 8270D
Batch ID: P358410

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2060276	Acetochlor	117	97.9	P/P	63 - 129
2060276	Alachlor	110	88.3	P/P	65 - 127
2060276	Ametryn	137	101	P/P	40 - 164
2060276	Atrazine Desethyl	90.7	71.8	P/P	14 - 157
2060276	Azinphos Methyl	144	124	P/P	49 - 180
2060276	Bromacil	90.8	74.9	P/P	48 - 130
2060276	Butylate	63.0	54.8	P/P	10 - 94.0
2060276	Chlorpyrifos Ethyl	86.0	79.2	P/P	58 - 123
2060276	Chlorpyrifos Methyl	92.6	83.6	P/P	58 - 125
2060276	Cyanazine	159	134	P/P	24 - 253

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P358410

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2060276	Demeton	103	88.7	P/P	25 - 149
2060276	Diazinon	119	96.4	P/P	59 - 144
2060276	Dimethenamid	111	86.5	P/P	60 - 130
2060276	Disulfoton	102	86.8	P/P	54 - 132
2060276	Dithiopyr	114	92.0	P/P	60 - 130
2060276	EPTC	56.8	49.1	P/P	10 - 92.0
2060276	Ethion	56.7	52.7	P/P	30 - 148
2060276	Ethoprop	100	82.8	P/P	50 - 130
2060276	Fenamiphos	80.6	76.1	P/P	49 - 142
2060276	Fipronil	98.2	76.0	P/P	46 - 140
2060276	Fipronil Desulfiny	83.7	70.6	P/P	60 - 130
2060276	Fipronil Sulfide	69.9	59.7	P/P	31 - 136
2060276	Fipronil Sulfone	77.7	65.5	P/P	16 - 136
2060276	Fonofos	90.9	84.5	P/P	55 - 129
2060276	Hexazinone	103	92.0	P/P	56 - 141
2060276	Malathion	77.5	75.7	P/P	56 - 135
2060276	Metalaxyl	98.8	83.5	P/P	54 - 135
2060276	Metolachlor	106	90.0	P/P	51 - 140
2060276	Metribuzin	154	132	P/P	45 - 254
2060276	Mevinphos	81.2	69.7	P/P	33 - 131
2060276	Molinate	79.1	70.5	P/P	14 - 98.0
2060276	Norflurazon	99.7	85.7	P/P	34 - 136
2060276	Oxadiazon	89.3	78.8	P/P	60 - 130
2060276	Parathion Ethyl	90.2	77.4	P/P	66 - 118
2060276	Parathion Methyl	117	106	P/P	64 - 136
2060276	Pendimethalin	101	85.9	P/P	59 - 144
2060276	Phorate	113	91.2	P/P	42 - 130
2060276	Prodiamine	95.7	77.0	P/P	60 - 130
2060276	Prometon	94.9	78.8	P/P	59 - 134
2060276	Prometryn	79.9	68.5	P/P	54 - 135
2060276	Tebuconazole	78.8	66.1	P/P	30 - 100
2060276	Terbufos	102	86.6	P/P	57 - 131
2060276	Terbuthylazine	106	85.5	P/P	68 - 125

Reference Method: EPA 8270D
Batch ID: P358586

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2060383	Aldrin	51.1	44.5	P/P	25 - 92.0
2060383	Alpha-BHC	111	103	P/P	49 - 130
2060383	Alpha-Chlordane	80.8	72.2	P/P	50 - 115
2060383	Beta-BHC	136	134	P/P	43 - 157
2060383	Carbophenothion	99.6	106	P/P	27 - 180
2060383	Chlorothalonil	139	141	P/P	10 - 216
2060383	Cypermethrin	107	101	P/P	40 - 153
2060383	DDD-p,p'	104	98.1	P/P	53 - 128
2060383	DDE-p,p'	76.7	66.4	P/P	48 - 116
2060383	DDT-p,p'	83.0	72.3	P/P	47 - 128
2060383	Delta-BHC	154	150	P/P	51 - 196
2060383	Dicofol	81.7	78.4	P/P	10 - 147
2060383	Dieldrin	90.7	78.5	P/P	48 - 128
2060383	Endosulfan I	96.2	81.8	P/P	58 - 126

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P358586

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2060383	Endosulfan II	123	117	P/P	50 - 150
2060383	Endosulfan Sulfate	109	102	P/P	56 - 130
2060383	Endrin	95.8	88.2	P/P	50 - 126
2060383	Endrin Aldehyde	101	85.7	P/P	12 - 145
2060383	Endrin Ketone	95.0	95.5	P/P	59 - 132
2060383	Gamma-BHC	127	120	P/P	50 - 155
2060383	Gamma-Chlordane	79.4	69.7	P/P	50 - 112
2060383	Heptachlor	70.3	60.6	P/P	41 - 98.0
2060383	Heptachlor Epoxide	88.6	81.8	P/P	55 - 117
2060383	Methoxychlor	109	101	P/P	55 - 133
2060383	Mirex	54.1	46.7	P/P	44 - 101
2060383	Permethrin	92.4	82.8	P/P	52 - 124
2060383	Trifluralin	85.8	75.9	P/P	10 - 201

Reference Method: EPA 8276
Batch ID: P358586

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2061240	Chlordane	59.8	60.0	P/P	34 - 136
2061240	Toxaphene	80.4	78.5	P/P	22 - 152

Reference Method: EPA 8321B
Batch ID: P358378

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2059643	Acesulfame K	113	116	P/P	40 - 150
2059643	AMPA	140	144	P/P	40 - 150
2059643	Endothall	109	114	P/P	40 - 150
2059643	Glufosinate	70.4	68.9	P/P	40 - 150
2059643	Glyphosate	77.3	78.3	P/P	40 - 140
2059643	Sucralose	94.4	103	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P358394

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2059339	2,4-D	102	97.0	P/P	40 - 150
2059339	Acetaminophen	132	127	P/P	30 - 150
2059339	Bentazon	65.4	54.1	P/P	30 - 150
2059339	Carbamazepine	81.6	68.4	P/P	40 - 150
2059339	Diuron	71.1	60.3	P/P	40 - 150
2059339	Fenuron	87.8	77.7	P/P	40 - 150
2059339	Fluridone	95.1	74.8	P/P	40 - 150
2059339	Hydrocodone	95.5	82.4	P/P	40 - 150
2059339	Ibuprofen	94.3	91.2	P/P	40 - 150
2059339	Imazapyr	100	88.8	P/P	40 - 150
2059339	Imidacloprid	192	175	F/F	40 - 150
2059339	Linuron	73.9	62.8	P/P	40 - 150
2059339	MCPP	145	121	P/P	40 - 150
2059339	Naproxen	101	99.2	P/P	40 - 150
2059339	Primidone	101	100	P/P	40 - 150
2059339	Pyraclostrobin	83.3	69.9	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P358394

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2059339	Triclopyr	86.2	77.7	P/P	40 - 150
2059641	3-Hydroxycarbofuran	110	119	P/P	40 - 150
2059641	Aldicarb	84.2	105	P/P	30 - 150
2059641	Aldicarb Sulfone	111	123	P/P	40 - 150
2059641	Aldicarb Sulfoxide	56.3	68.6	P/P	40 - 150
2059641	Carbaryl	71.2	78.9	P/P	40 - 150
2059641	Carbofuran	62.3	75.8	P/P	40 - 150
2059641	Methiocarb	80.0	79.4	P/P	40 - 150
2059641	Methomyl	107	114	P/P	40 - 150
2059641	Oxamyl	112	127	P/P	40 - 150
2059641	Propoxur	75.2	83.2	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P358925

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2060059	Fluoride	96.4	96.4	P/P	91 - 105

Reference Method: SM 4500 F-C-97
Batch ID: P359104

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2061232	Fluoride	96.9	96.2	P/P	91 - 105

Reference Method: SM 4500 F-C-97
Batch ID: P359122

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2061974	Fluoride	92.5	92.5	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P358672

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2060210	Organic Carbon	97.7		P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P358459

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2060255	Turbidity	10.6	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P358462

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2060207	Turbidity	1.89	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359197

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2060208	Chloride	1.05	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359199

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2060208	Sulfate	1.14	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359271

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2059842	Chloride	0.308	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359274

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2059842	Sulfate	0.422	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P358641

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2059298	Ammonia-N	0.232	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P358797

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2060244	Ammonia-N	0.299	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P358798

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2060245	Ammonia-N	0.135	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P358698

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2060257	Kjeldahl Nitrogen	0.512	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P358699

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2060245	Kjeldahl Nitrogen	1.66	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P358772

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2060209	NO2NO3-N	0.381	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359043

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2060120	NO2NO3-N	0.990	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P358615

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2060295	Total-P	2.48	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P358617

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2060259	Total-P	0.832	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P358449

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2060066	O-Phosphate-P	0.719	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P358450

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2060247	O-Phosphate-P	2.09	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P358410

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2060276	Acetochlor	18.1	Spike	P	0 - 30
2060276	Alachlor	21.8	Spike	P	0 - 30
2060276	Ametryn	29.8	Spike	P	0 - 30
2060276	Atrazine	16.2	Spike	P	0 - 30
2060276	Atrazine Desethyl	20.4	Spike	P	0 - 30
2060276	Azinphos Methyl	14.6	Spike	P	0 - 30
2060276	Bromacil	16.3	Spike	P	0 - 30
2060276	Butylate	13.9	Spike	P	0 - 30
2060276	Chlorpyrifos Ethyl	8.19	Spike	P	0 - 30
2060276	Chlorpyrifos Methyl	10.3	Spike	P	0 - 30
2060276	Cyanazine	17.1	Spike	P	0 - 30
2060276	Demeton	15.2	Spike	P	0 - 30
2060276	Diazinon	21.1	Spike	P	0 - 30
2060276	Dimethenamid	16.5	Spike	P	0 - 30
2060276	Disulfoton	16.4	Spike	P	0 - 30
2060276	Dithiopyr	21.7	Spike	P	0 - 30
2060276	EPTC	14.6	Spike	P	0 - 30
2060276	Ethion	7.26	Spike	P	0 - 30
2060276	Ethoprop	18.8	Spike	P	0 - 30
2060276	Fenamiphos	5.78	Spike	P	0 - 30
2060276	Fipronil	17.9	Spike	P	0 - 30
2060276	Fipronil Desulfinyl	16.0	Spike	P	0 - 30
2060276	Fipronil Sulfide	12.2	Spike	P	0 - 30
2060276	Fipronil Sulfone	10.4	Spike	P	0 - 30
2060276	Fonofos	7.28	Spike	P	0 - 30
2060276	Hexazinone	11.0	Spike	P	0 - 30
2060276	Malathion	2.35	Spike	P	0 - 30
2060276	Metalaxyl	16.9	Spike	P	0 - 30
2060276	Metolachlor	14.3	Spike	P	0 - 30
2060276	Metribuzin	15.4	Spike	P	0 - 30
2060276	Mevinphos	15.2	Spike	P	0 - 30
2060276	Molinate	11.5	Spike	P	0 - 30
2060276	Norflurazon	15.1	Spike	P	0 - 30
2060276	Oxadiazon	12.1	Spike	P	0 - 30
2060276	Parathion Ethyl	15.3	Spike	P	0 - 30
2060276	Parathion Methyl	10.3	Spike	P	0 - 30
2060276	Pendimethalin	16.2	Spike	P	0 - 30
2060276	Phorate	21.0	Spike	P	0 - 30
2060276	Prodiamine	21.7	Spike	P	0 - 30
2060276	Prometon	18.5	Spike	P	0 - 30
2060276	Prometryn	13.6	Spike	P	0 - 30
2060276	Simazine	18.2	Spike	P	0 - 30
2060276	Tebuconazole	16.0	Spike	P	0 - 30
2060276	Terbufos	16.4	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P358410

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2060276	Terbutylazine	21.8	Spike	P	0 - 30
LFB	Acetochlor	23.2	LCS	P	0 - 30
LFB	Alachlor	16.2	LCS	P	0 - 30
LFB	Ametryn	13.9	LCS	P	0 - 30
LFB	Atrazine	3.24	LCS	P	0 - 30
LFB	Atrazine Desethyl	12.9	LCS	P	0 - 30
LFB	Azinphos Methyl	25.6	LCS	P	0 - 30
LFB	Bromacil	6.09	LCS	P	0 - 30
LFB	Butylate	5.84	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	1.01	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	8.67	LCS	P	0 - 30
LFB	Cyanazine	38.4	LCS	F	0 - 30
LFB	Demeton	19.9	LCS	P	0 - 30
LFB	Diazinon	23.1	LCS	P	0 - 30
LFB	Dimethenamid	22.4	LCS	P	0 - 30
LFB	Disulfoton	11.4	LCS	P	0 - 30
LFB	Dithiopyr	17.6	LCS	P	0 - 30
LFB	EPTC	7.28	LCS	P	0 - 30
LFB	Ethion	40.7	LCS	F	0 - 30
LFB	Ethoprop	9.12	LCS	P	0 - 30
LFB	Fenamiphos	22.5	LCS	P	0 - 30
LFB	Fipronil	9.66	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	0.635	LCS	P	0 - 30
LFB	Fipronil Sulfide	21.2	LCS	P	0 - 30
LFB	Fipronil Sulfone	0.842	LCS	P	0 - 30
LFB	Fonofos	5.34	LCS	P	0 - 30
LFB	Hexazinone	8.86	LCS	P	0 - 30
LFB	Malathion	13.7	LCS	P	0 - 30
LFB	Metalaxyl	2.38	LCS	P	0 - 30
LFB	Metolachlor	15.8	LCS	P	0 - 30
LFB	Metribuzin	11.9	LCS	P	0 - 30
LFB	Mevinphos	8.54	LCS	P	0 - 30
LFB	Molinate	14.9	LCS	P	0 - 30
LFB	Norflurazon	8.67	LCS	P	0 - 30
LFB	Oxadiazon	9.37	LCS	P	0 - 30
LFB	Parathion Ethyl	3.19	LCS	P	0 - 30
LFB	Parathion Methyl	18.3	LCS	P	0 - 30
LFB	Pendimethalin	2.30	LCS	P	0 - 30
LFB	Phorate	14.5	LCS	P	0 - 30
LFB	Prodiamine	5.88	LCS	P	0 - 30
LFB	Prometon	3.43	LCS	P	0 - 30
LFB	Prometryn	3.18	LCS	P	0 - 30
LFB	Simazine	6.59	LCS	P	0 - 30
LFB	Tebuconazole	17.6	LCS	P	0 - 30
LFB	Terbufos	9.20	LCS	P	0 - 30
LFB	Terbutylazine	3.18	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P358586

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2060383	Aldrin	13.6	Spike	P	0 - 30
2060383	Alpha-BHC	7.75	Spike	P	0 - 30
2060383	Alpha-Chlordane	11.3	Spike	P	0 - 30
2060383	Beta-BHC	1.99	Spike	P	0 - 30
2060383	Carbophenothion	6.71	Spike	P	0 - 30
2060383	Chlorothalonil	1.09	Spike	P	0 - 30
2060383	Cypermethrin	5.78	Spike	P	0 - 30
2060383	DDD-p,p'	6.26	Spike	P	0 - 30
2060383	DDE-p,p'	14.3	Spike	P	0 - 30
2060383	DDT-p,p'	13.7	Spike	P	0 - 30
2060383	Delta-BHC	2.75	Spike	P	0 - 30
2060383	Dicofol	4.10	Spike	P	0 - 30
2060383	Dieldrin	14.5	Spike	P	0 - 30
2060383	Endosulfan I	16.2	Spike	P	0 - 30
2060383	Endosulfan II	5.25	Spike	P	0 - 30
2060383	Endosulfan Sulfate	6.62	Spike	P	0 - 30
2060383	Endrin	8.25	Spike	P	0 - 30
2060383	Endrin Aldehyde	16.2	Spike	P	0 - 30
2060383	Endrin Ketone	0.466	Spike	P	0 - 30
2060383	Gamma-BHC	6.16	Spike	P	0 - 30
2060383	Gamma-Chlordane	13.1	Spike	P	0 - 30
2060383	Heptachlor	14.8	Spike	P	0 - 30
2060383	Heptachlor Epoxide	8.01	Spike	P	0 - 30
2060383	Methoxychlor	7.46	Spike	P	0 - 30
2060383	Mirex	14.6	Spike	P	0 - 30
2060383	Permethrin	11.0	Spike	P	0 - 30
2060383	Trifluralin	12.2	Spike	P	0 - 30
LFB	Aldrin	6.44	LCS	P	0 - 30
LFB	Alpha-BHC	0.867	LCS	P	0 - 30
LFB	Alpha-Chlordane	2.39	LCS	P	0 - 30
LFB	Beta-BHC	3.68	LCS	P	0 - 30
LFB	Carbophenothion	11.7	LCS	P	0 - 30
LFB	Chlorothalonil	3.19	LCS	P	0 - 30
LFB	Cypermethrin	4.14	LCS	P	0 - 30
LFB	DDD-p,p'	7.01	LCS	P	0 - 30
LFB	DDE-p,p'	8.20	LCS	P	0 - 30
LFB	DDT-p,p'	3.30	LCS	P	0 - 30
LFB	Delta-BHC	5.46	LCS	P	0 - 30
LFB	Dicofol	0.354	LCS	P	0 - 30
LFB	Dieldrin	1.78	LCS	P	0 - 30
LFB	Endosulfan I	2.72	LCS	P	0 - 30
LFB	Endosulfan II	3.53	LCS	P	0 - 30
LFB	Endosulfan Sulfate	1.75	LCS	P	0 - 30
LFB	Endrin	10.2	LCS	P	0 - 30
LFB	Endrin Aldehyde	2.14	LCS	P	0 - 30
LFB	Endrin Ketone	3.56	LCS	P	0 - 30
LFB	Gamma-BHC	3.93	LCS	P	0 - 30
LFB	Gamma-Chlordane	4.95	LCS	P	0 - 30
LFB	Heptachlor	6.37	LCS	P	0 - 30
LFB	Heptachlor Epoxide	0.0191	LCS	P	0 - 30
LFB	Methoxychlor	1.93	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P358586

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Mirex	1.39	LCS	P	0 - 30
LFB	Permethrin	5.49	LCS	P	0 - 30
LFB	Trifluralin	1.41	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P358586

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2061240	Chlordane	0.255	Spike	P	0 - 30
2061240	Toxaphene	2.37	Spike	P	0 - 30
LFB	Chlordane	1.87	LCS	P	0 - 30
LFB	Toxaphene	7.16	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P358378

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2059643	Acesulfame K	2.45	Spike	P	0 - 30
2059643	AMPA	2.99	Spike	P	0 - 30
2059643	Endothall	4.98	Spike	P	0 - 30
2059643	Glufosinate	2.15	Spike	P	0 - 30
2059643	Glyphosate	1.27	Spike	P	0 - 30
2059643	Sucralose	8.45	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P358394

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2059339	2,4-D	4.22	Spike	P	0 - 30
2059339	Acetaminophen	3.76	Spike	P	0 - 30
2059339	Bentazon	2.58	Spike	P	0 - 30
2059339	Carbamazepine	16.5	Spike	P	0 - 30
2059339	Diuron	15.7	Spike	P	0 - 30
2059339	Fenuron	12.2	Spike	P	0 - 30
2059339	Fluridone	4.94	Spike	P	0 - 30
2059339	Hydrocodone	14.7	Spike	P	0 - 30
2059339	Ibuprofen	3.34	Spike	P	0 - 30
2059339	Imazapyr	6.29	Spike	P	0 - 30
2059339	Imidacloprid	9.05	Spike	P	0 - 30
2059339	Linuron	16.2	Spike	P	0 - 30
2059339	MCPP	18.0	Spike	P	0 - 30
2059339	Naproxen	1.31	Spike	P	0 - 30
2059339	Primidone	0.471	Spike	P	0 - 30
2059339	Pyraclostrobin	17.6	Spike	P	0 - 30
2059339	Triclopyr	10.4	Spike	P	0 - 30
2059641	3-Hydroxycarbofuran	7.71	Spike	P	0 - 30
2059641	Aldicarb	21.9	Spike	P	0 - 30
2059641	Aldicarb Sulfone	10.4	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P358394

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2059641	Aldicarb Sulfoxide	19.8	Spike	P	0 - 30
2059641	Carbaryl	10.3	Spike	P	0 - 30
2059641	Carbofuran	19.5	Spike	P	0 - 30
2059641	Methiocarb	0.671	Spike	P	0 - 30
2059641	Methomyl	5.71	Spike	P	0 - 30
2059641	Oxamyl	12.2	Spike	P	0 - 30
2059641	Propoxur	10.0	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P358454

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2060308	Color (true)	0.239	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P358921

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2060059	Total Alkalinity	2.05	Sample	F	0 - 1.6

Reference Method: SM 2320 B-97
Batch ID: P359100

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2061232	Total Alkalinity	0.248	Sample	P	0 - 1.6

Reference Method: SM 2540 C-97
Batch ID: P359063

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2060203	TDS	5.29	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P359064

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2060256	TDS	2.14	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P358925

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2060059	Fluoride	0.0	Spike	P	0 - 3.5

Quality Assurance Report Precision

Reference Method: SM 4500 F-C-97
Batch ID: P359104

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2061232	Fluoride	0.473	Spike	P	0 - 3.5

Reference Method: SM 4500 F-C-97
Batch ID: P359122

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2061974	Fluoride	0.0	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
Batch ID: P358672

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2060210	Organic Carbon	1.15	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: 2060264
Field Sample ID: G5NW0129

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	71.2	P	30 - 160

Lab Sample ID: 2060265
Field Sample ID: G5NW0129

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	77.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	96.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	65.5	P	30 - 160
EPA 8321B	Diuron-d6	64.3	P	30 - 160
EPA 8321B	Endothall-d6	72.4	P	40 - 160
EPA 8321B	Endothall-d6	72.4	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	9.86	F	40 - 160
EPA 8321B	Glyphosate 13C 15N	9.86	F	40 - 160
EPA 8321B	Ibuprofen-d3	85.8	P	30 - 160
EPA 8321B	Primidone-d5	99.0	P	30 - 160
EPA 8321B	Sucralose-d6	91.0	P	40 - 160
EPA 8321B	Sucralose-d6	91.0	P	40 - 160

Lab Sample ID: 2060266
Field Sample ID: G4NW0484

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	60.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	110	P	30 - 160
EPA 8321B	Carbamazepine-d10	62.7	P	30 - 160
EPA 8321B	Diuron-d6	68.0	P	30 - 160
EPA 8321B	Endothall-d6	83.7	P	40 - 160
EPA 8321B	Endothall-d6	83.7	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	6.78	F	40 - 160
EPA 8321B	Glyphosate 13C 15N	6.78	F	40 - 160
EPA 8321B	Ibuprofen-d3	81.8	P	30 - 160
EPA 8321B	Primidone-d5	98.0	P	30 - 160
EPA 8321B	Sucralose-d6	82.9	P	40 - 160
EPA 8321B	Sucralose-d6	82.9	P	40 - 160

Lab Sample ID: 2060267
Field Sample ID: G4NW0483

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	62.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	92.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	71.9	P	30 - 160
EPA 8321B	Diuron-d6	66.9	P	30 - 160
EPA 8321B	Endothall-d6	76.5	P	40 - 160
EPA 8321B	Endothall-d6	76.5	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	6.24	F	40 - 160
EPA 8321B	Glyphosate 13C 15N	6.24	F	40 - 160
EPA 8321B	Ibuprofen-d3	76.1	P	30 - 160
EPA 8321B	Primidone-d5	101	P	30 - 160
EPA 8321B	Sucralose-d6	89.2	P	40 - 160
EPA 8321B	Sucralose-d6	89.2	P	40 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2060275
Field Sample ID: G5NW0129

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	67.4	P	39 - 109
EPA 8270D	Tetrachloro-m-xylene	50.6	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	48.3	P	30 - 103
EPA 8276	PCNB	92.2	P	37 - 143

Lab Sample ID: 2060276
Field Sample ID: G5NW0129

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	110	P	68 - 130
EPA 8270D	Terbufos-d10	102	P	61 - 136

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A89230

Included Lab Sample IDs: 2060241, 2060246, 2060247

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.0	98.8	P/P	90 - 110
O-Phosphate-P	99.7	99.0	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A89231

Included Lab Sample IDs: 2060239, 2060242, 2060243

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	90 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A89232

Included Lab Sample IDs: 2060239, 2060242, 2060243

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

Reference Method: EPA 8321B

Run ID: A89271

Included Lab Sample IDs: 2060265, 2060266, 2060267

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	125	124	P/P	60 - 160
Endothall	112	99.2	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A89307

Included Lab Sample IDs: 2060265, 2060266, 2060267

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	99.4	88.6	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A89308

Included Lab Sample IDs: 2060265, 2060266, 2060267

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	135	120	P/P	60 - 160
Glufosinate	81.3	78.2	P/P	60 - 160
Glyphosate	94.0	94.4	P/P	60 - 160

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A89313

Included Lab Sample IDs: 2060240

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

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-00

Run ID: A89322

Included Lab Sample IDs: 2060240, 2060244, 2060245

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	93.4	92.9	P/P	90 - 110
Organic Carbon	95.8	93.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A89341

Included Lab Sample IDs: 2060240, 2060244, 2060245

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.2	99.0	P/P	90 - 110
Total-P	99.2	99.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A89364

Included Lab Sample IDs: 2060244

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A89374

Included Lab Sample IDs: 2060244, 2060245

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A89381

Included Lab Sample IDs: 2060244

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.2	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A89390

Included Lab Sample IDs: 2060240, 2060245

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

Reference Method: SM 2320 B-97

Run ID: A89417

Included Lab Sample IDs: 2060242

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

Quality Assurance Report Calibration Verification

Reference Method: SM 4500 F-C-97

Run ID: A89417

Included Lab Sample IDs: 2060242

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

Reference Method: EPA 8270D

Run ID: A89425

Included Lab Sample IDs: 2060275

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	96.6		P	80 - 120
Alpha-BHC	94.0		P	80 - 120
Alpha-Chlordane	94.2		P	80 - 120
Beta-BHC	89.6		P	80 - 120
Carbophenothion	105		P	80 - 120
Chlorothalonil	96.8		P	80 - 120
Cypermethrin	83.7		P	80 - 120
DDD-p,p'	94.0		P	80 - 120
DDE-p,p'	94.7		P	80 - 120
DDT-p,p'	100		P	80 - 120
Delta-BHC	91.8		P	80 - 120
Dicofol	96.8		P	80 - 120
Dieldrin	96.3		P	80 - 120
Endosulfan I	94.6		P	80 - 120
Endosulfan II	90.0		P	80 - 120
Endosulfan Sulfate	91.1		P	80 - 120
Endrin	95.8		P	80 - 120
Endrin Aldehyde	93.8		P	80 - 120
Endrin Ketone	98.8		P	80 - 120
Gamma-BHC	97.1		P	80 - 120
Gamma-Chlordane	94.5		P	80 - 120
Heptachlor	93.8		P	80 - 120
Heptachlor Epoxide	94.8		P	80 - 120
Methoxychlor	103		P	80 - 120
Mirex	94.2		P	80 - 120
Permethrin	84.4		P	80 - 120
Trifluralin	94.9		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A89458

Included Lab Sample IDs: 2060240, 2060245

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.5	98.5	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A89459

Included Lab Sample IDs: 2060275

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	95.2		P	80 - 120
Toxaphene	95.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-97

Run ID: A89482

Included Lab Sample IDs: 2060239, 2060243

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	103	101	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A89482

Included Lab Sample IDs: 2060243

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.5	98.1	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A89490

Included Lab Sample IDs: 2060239

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	94.9	98.5	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A89502

Included Lab Sample IDs: 2060265, 2060266, 2060267

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	70.7	67.3	P/P	50 - 150
3-Hydroxycarbofuran	119	117	P/P	60 - 150
Acetaminophen	113	111	P/P	60 - 160
Aldicarb	93.4	126	P/P	60 - 150
Aldicarb Sulfone	100	106	P/P	50 - 150
Aldicarb Sulfoxide	101	97.1	P/P	50 - 150
Bentazon	88.4	93.8	P/P	50 - 160
Carbamazepine	98.8	100	P/P	60 - 150
Carbaryl	107	109	P/P	60 - 150
Carbofuran	95.2	100	P/P	50 - 150
Diuron	98.1	92.5	P/P	60 - 150
Fenuron	92.8	82.6	P/P	60 - 150
Fluridone	102	107	P/P	60 - 160
Hydrocodone	108	92.8	P/P	60 - 150
Ibuprofen	113	94.7	P/P	50 - 160
Imazapyr	78.0	69.6	P/P	50 - 150
Imidacloprid	120	105	P/P	60 - 150
Linuron	97.3	101	P/P	60 - 150
MCPP	93.3	90.9	P/P	50 - 150
Methiocarb	115	119	P/P	50 - 150
Methomyl	100	101	P/P	50 - 150
Naproxen	128	117	P/P	50 - 160
Oxamyl	94.7	98.9	P/P	50 - 150
Primidone	90.4	101	P/P	60 - 150
Propoxur	101	104	P/P	50 - 150
Pyraclostrobin	111	112	P/P	60 - 150
Triclopyr	106	88.5	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A89517

Included Lab Sample IDs: 2060239, 2060242, 2060243

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	96.6	96.4	P/P	90 - 110
Chloride	97.4	98.2	P/P	90 - 110
Sulfate	96.2	96.0	P/P	90 - 110
Sulfate	96.9	97.7	P/P	90 - 110

Reference Method: EPA 8270D

Run ID: A89520

Included Lab Sample IDs: 2060276

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	102		P	80 - 120
Alachlor	104		P	80 - 120
Ametryn	97.7		P	80 - 120
Atrazine	98.2		P	80 - 120
Atrazine Desethyl	95.4		P	80 - 120
Azinphos Methyl	94.0		P	80 - 120
Bromacil	102		P	80 - 120
Butylate	101		P	80 - 120
Chlorpyrifos Ethyl	100		P	80 - 120
Chlorpyrifos Methyl	102		P	80 - 120
Cyanazine	83.5		P	80 - 120
Demeton	96.8		P	80 - 120
Diazinon	98.5		P	80 - 120
Dimethenamid	103		P	80 - 120
Disulfoton	99.1		P	80 - 120
Dithiopyr	102		P	80 - 120
EPTC	98.9		P	80 - 120
Ethion	99.7		P	80 - 120
Ethoprop	99.2		P	80 - 120
Fenamiphos	98.1		P	80 - 120
Fipronil	99.9		P	80 - 120
Fipronil Desulfinyl	103		P	80 - 120
Fipronil Sulfide	100		P	80 - 120
Fipronil Sulfone	101		P	80 - 120
Fonofos	98.2		P	80 - 120
Hexazinone	100		P	80 - 120
Malathion	98.1		P	80 - 120
Metaxalyl	103		P	80 - 120
Metolachlor	106		P	80 - 120
Metribuzin	79.9*		F	80 - 120
Mevinphos	102		P	80 - 120
Molinate	106		P	80 - 120
Norflurazon	100		P	80 - 120
Oxadiazon	103		P	80 - 120
Parathion Ethyl	93.9		P	80 - 120
Parathion Methyl	96.2		P	80 - 120
Pendimethalin	95.7		P	80 - 120
Phorate	98.3		P	80 - 120
Prodiamine	99.4		P	80 - 120
Prometon	99.2		P	80 - 120
Prometryn	99.7		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A89520

Included Lab Sample IDs: 2060276

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Simazine	96.8		P	80 - 120
Tebuconazole	99.7		P	80 - 120
Terbufos	97.7		P	80 - 120
Terbutylazine	99.7		P	80 - 120

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
EPA 180.1 Rev. 2.0	Turbidity					10.6	
	Turbidity					1.89	
EPA 300.0 Rev. 2.1	Chloride	98.7		91.5	97.7	1.05	
	Chloride	95.5		98.4	95.6	0.308	
	Sulfate	97.8		94.6	97.3	1.14	
	Sulfate	95.0		96.8	94.3	0.422	
EPA 350.1 Rev. 2.0	Ammonia-N	98.5		99.6	99.3		0.232
	Ammonia-N	99.3		101	101		0.299
	Ammonia-N	100		101	101		0.135
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103		107	108		0.512
	Kjeldahl Nitrogen	108		106	104		1.66
EPA 353.2 Rev. 2.0	NO2NO3-N	98.0		98.9	98.4		0.381
	NO2NO3-N	100		102	100		0.990
EPA 365.1 Rev. 2.0	Total-P	105		97.6	100		2.48
	Total-P	105		102	103		0.832
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.1		97.0	97.7		0.719
	O-Phosphate-P	102		94.7	96.7		2.09
EPA 8270D	Acetochlor	88.4	112	117	97.9	23.2	18.1
	Alachlor	89.8	106	110	88.3	16.2	21.8
	Aldrin	43.1	45.9	51.1	44.5	6.44	13.6
	Alpha-BHC	89.7	89.0	111	103	0.867	7.75
	Alpha-Chlordane	73.2	74.9	80.8	72.2	2.39	11.3
	Ametryn	105	121	137	101	13.9	29.8
	Atrazine	115	118			3.24	16.2
	Atrazine Desethyl	84.0	95.6	90.7	71.8	12.9	20.4
	Azinphos Methyl	104	135	144	124	25.6	14.6
	Beta-BHC	123	118	136	134	3.68	1.99
	Bromacil	56.6	60.1	90.8	74.9	6.09	16.3
	Butylate	63.3	59.7	63.0	54.8	5.84	13.9
	Carbophenothion	39.5	44.5	99.6	106	11.7	6.71
	Chlorothalonil	64.1	62.1	139	141	3.19	1.09
	Chlorpyrifos Ethyl	87.4	86.6	86.0	79.2	1.01	8.19
	Chlorpyrifos Methyl	85.9	93.7	92.6	83.6	8.67	10.3
	Cyanazine	110	162	159	134	38.4	17.1
	Cypermethrin	102	107	107	101	4.14	5.78
	DDD-p,p'	93.4	100	104	98.1	7.01	6.26
	DDE-p,p'	69.4	75.4	76.7	66.4	8.20	14.3
	DDT-p,p'	79.1	81.7	83.0	72.3	3.30	13.7
	Delta-BHC	134	127	154	150	5.46	2.75
	Demeton	84.0	102	103	88.7	19.9	15.2
	Diazinon	89.4	113	119	96.4	23.1	21.1
	Dicofol	74.9	75.1	81.7	78.4	0.354	4.10
	Dieldrin	75.6	76.9	90.7	78.5	1.78	14.5
	Dimethenamid	84.5	106	111	86.5	22.4	16.5
	Disulfoton	88.2	98.8	102	86.8	11.4	16.4
	Dithiopyr	88.8	106	114	92.0	17.6	21.7
	Endosulfan I	80.4	82.6	96.2	81.8	2.72	16.2
	Endosulfan II	103	99.7	123	117	3.53	5.25
	Endosulfan Sulfate	98.8	97.0	109	102	1.75	6.62
	Endrin	92.1	83.2	95.8	88.2	10.2	8.25
	Endrin Aldehyde	99.6	102	101	85.7	2.14	16.2
	Endrin Ketone	86.9	83.9	95.0	95.5	3.56	0.466
	EPTC	57.8	62.2	56.8	49.1	7.28	14.6
	Ethion	92.4	61.1	56.7	52.7	40.7	7.26

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 8270D	Ethoprop	87.0	95.3	100	82.8	9.12		18.8
	Fenamiphos	86.6	69.1	80.6	76.1	22.5		5.78
	Fipronil	81.7	90.0	98.2	76.0	9.66		17.9
	Fipronil Desulfinyl	78.6	79.1	83.7	70.6	0.635		16.0
	Fipronil Sulfide	86.0	69.6	69.9	59.7	21.2		12.2
	Fipronil Sulfone	83.7	83.0	77.7	65.5	0.842		10.4
	Fonofos	84.7	89.3	90.9	84.5	5.34		7.28
	Gamma-BHC	102	106	127	120	3.93		6.16
	Gamma-Chlordane	71.6	75.2	79.4	69.7	4.95		13.1
	Heptachlor	61.9	66.0	70.3	60.6	6.37		14.8
	Heptachlor Epoxide	76.9	76.9	88.6	81.8	0.0191		8.01
	Hexazinone	108	99.1	103	92.0	8.86		11.0
	Malathion	94.8	82.7	77.5	75.7	13.7		2.35
	Metalaxyl	93.5	91.3	98.8	83.5	2.38		16.9
	Methoxychlor	99.6	97.7	109	101	1.93		7.46
	Metolachlor	90.1	106	106	90.0	15.8		14.3
	Metribuzin	142	160	154	132	11.9		15.4
	Mevinphos	81.2	74.6	81.2	69.7	8.54		15.2
	Mirex	54.7	53.9	54.1	46.7	1.39		14.6
	Molinate	67.8	78.7	79.1	70.5	14.9		11.5
	Norflurazon	84.0	91.6	99.7	85.7	8.67		15.1
	Oxadiazon	91.1	83.0	89.3	78.8	9.37		12.1
	Parathion Ethyl	88.2	85.4	90.2	77.4	3.19		15.3
	Parathion Methyl	102	122	117	106	18.3		10.3
	Pendimethalin	89.9	92.0	101	85.9	2.30		16.2
	Permethrin	88.2	93.1	92.4	82.8	5.49		11.0
	Phorate	92.7	107	113	91.2	14.5		21.0
	Prodiamine	104	98.3	95.7	77.0	5.88		21.7
	Prometon	88.4	91.5	94.9	78.8	3.43		18.5
	Prometryn	90.7	87.8	79.9	68.5	3.18		13.6
	Simazine	101	94.4			6.59		18.2
	Tebuconazole	85.9	72.0	78.8	66.1	17.6		16.0
	Terbufos	88.7	97.3	102	86.6	9.20		16.4
	Terbutylazine	95.9	99.0	106	85.5	3.18		21.8
	Trifluralin	74.0	75.0	85.8	75.9	1.41		12.2
EPA 8276	Chlordane	63.6	64.8	59.8	60.0	1.87		0.255
	Toxaphene	75.4	70.2	80.4	78.5	7.16		2.37
EPA 8321B	2,4-D	87.2		102	97.0			4.22
	3-Hydroxycarbofuran	110		110	119			7.71
	Acesulfame K	113		113	116			2.45
	Acetaminophen	89.9		132	127			3.76
	Aldicarb	117		84.2	105			21.9
	Aldicarb Sulfone	100		111	123			10.4
	Aldicarb Sulfoxide	107		56.3	68.6			19.8
	AMPA	91.1		140	144			2.99
	Bentazon	98.3		65.4	54.1			2.58
	Carbamazepine	88.5		81.6	68.4			16.5
	Carbaryl	82.9		71.2	78.9			10.3
	Carbofuran	79.8		62.3	75.8			19.5
	Diuron	78.2		71.1	60.3			15.7
	Endothall	98.8		109	114			4.98
	Fenuron	117		87.8	77.7			12.2
	Fluridone	104		95.1	74.8			4.94
	Glufosinate	71.3		70.4	68.9			2.15

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Glyphosate	79.3	77.3	78.3		1.27
	Hydrocodone	98.7	95.5	82.4		14.7
	Ibuprofen	85.3	94.3	91.2		3.34
	Imazapyr	92.7	100	88.8		6.29
	Imidacloprid	94.4	192	175		9.05
	Linuron	77.0	73.9	62.8		16.2
	MCPP	115	145	121		18.0
	Methiocarb	79.6	80.0	79.4		0.671
	Methomyl	102	107	114		5.71
	Naproxen	95.6	101	99.2		1.31
	Oxamyl	110	112	127		12.2
	Primidone	95.5	101	100		0.471
	Propoxur	85.1	75.2	83.2		10.0
	Pyraclostrobin	65.5	83.3	69.9		17.6
	Sucralose	99.4	94.4	103		8.45
	Triclopyr	75.5	86.2	77.7		10.4
SM 2120 B	Color (true)	102			0.239	
SM 2320 B-97	Total Alkalinity	103			2.05	
	Total Alkalinity	104			0.248	
SM 2540 C-97	TDS				5.29	
	TDS				2.14	
SM 4500 F-C-97	Fluoride	97.1	96.4	96.4		0.0
	Fluoride	97.3	96.9	96.2		0.473
	Fluoride	93.1	92.5	92.5		0.0
SM 5310 B-00	Organic Carbon	96.8	97.7			1.15

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2060239, 2060242, 2060243
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2060239, 2060242, 2060243
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2060239, 2060242, 2060243
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2060240, 2060244, 2060245
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2060240, 2060244, 2060245
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2060240, 2060244, 2060245
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2060240, 2060244, 2060245
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2060241, 2060246, 2060247
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	2060275
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2060276
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2060275
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	2060264
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2060265, 2060266, 2060267
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	2060265, 2060266, 2060267
SM 2120 B / E31780	True Color measured at 450 nm	2060239, 2060242, 2060243
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	2060239, 2060242, 2060243
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2060239, 2060242, 2060243

Reference Method Descriptions

Method / DoH Cert #	Description	<u>Associated Samples</u>
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2060239, 2060242, 2060243
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2060239, 2060242, 2060243
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2060240, 2060244, 2060245

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	02/06/2019			02/06/2019 17:47	Adrian Shelby	2060239, 2060242, 2060243
EPA 300.0 Rev. 2.1	02/06/2019			02/19/2019 10:52	Lipi Saha	2060242
	02/06/2019			02/19/2019 11:09	Lipi Saha	2060243
	02/06/2019			02/19/2019 21:22	Lipi Saha	2060239
EPA 350.1 Rev. 2.0	02/06/2019			02/08/2019 11:18	Ping Hua	2060240
	02/06/2019			02/12/2019 13:02	Ping Hua	2060244
	02/06/2019			02/12/2019 13:29	Ping Hua	2060245
EPA 351.2 Rev. 2.0	02/06/2019	02/11/2019 11:30	Adrian Shelby	02/12/2019 14:19	Joseph Suarez	2060244
	02/06/2019	02/11/2019 11:30	Adrian Shelby	02/13/2019 09:29	Joseph Suarez	2060240
	02/06/2019	02/11/2019 11:30	Adrian Shelby	02/13/2019 09:31	Joseph Suarez	2060245
EPA 353.2 Rev. 2.0	02/06/2019			02/12/2019 12:45	Lauren Lees	2060244
	02/06/2019			02/15/2019 11:22	Beverly Y. Sanders	2060240
	02/06/2019			02/15/2019 11:23	Beverly Y. Sanders	2060245
EPA 365.1 Rev. 2.0	02/06/2019	02/08/2019 15:00	Sima Feizi	02/11/2019 16:55	Rosalyn Ballman	2060240
	02/06/2019	02/08/2019 15:00	Sima Feizi	02/11/2019 16:56	Rosalyn Ballman	2060245
	02/06/2019	02/08/2019 15:00	Sima Feizi	02/11/2019 17:18	Rosalyn Ballman	2060244
EPA 365.1 Rev. 2.0 dissolved	02/06/2019			02/06/2019 15:56	Jhamieka S. Greenwood	2060247
	02/06/2019			02/06/2019 16:16	Jhamieka S. Greenwood	2060246
	02/06/2019			02/06/2019 16:19	Jhamieka S. Greenwood	2060241
EPA 8270D	02/06/2019	02/07/2019 08:30	Rasheda Ghaffari	02/08/2019 21:59	Vandana T. Nagar	2060276
	02/06/2019	02/11/2019 08:30	Rasheda Ghaffari	02/13/2019 18:52	Dinesh Mishra	2060275
EPA 8276	02/06/2019	02/11/2019 08:30	Rasheda Ghaffari	02/15/2019 03:44	Arthur Maknenko	2060275
EPA 8321B	02/06/2019	02/07/2019 12:00	Hoor Shaik	02/19/2019 03:34	Juyoung Kim	2060264
	02/06/2019	02/07/2019 12:00	Hoor Shaik	02/19/2019 09:55	Juyoung Kim	2060265
	02/06/2019	02/07/2019 12:00	Hoor Shaik	02/19/2019 10:29	Juyoung Kim	2060266
	02/06/2019	02/07/2019 12:00	Hoor Shaik	02/19/2019 11:04	Juyoung Kim	2060267
	02/06/2019	02/07/2019 15:30	Mohammad Ghaffari	02/08/2019 01:28	Mohammad Ghaffari	2060265
	02/06/2019	02/07/2019 15:30	Mohammad Ghaffari	02/08/2019 01:42	Mohammad Ghaffari	2060266
	02/06/2019	02/07/2019 15:30	Mohammad Ghaffari	02/08/2019 01:55	Mohammad Ghaffari	2060267
	02/06/2019	02/07/2019 15:30	Mohammad Ghaffari	02/08/2019 10:19	Mohammad Ghaffari	2060265
	02/06/2019	02/07/2019 15:30	Mohammad Ghaffari	02/08/2019 10:30	Mohammad Ghaffari	2060266
	02/06/2019	02/07/2019 15:30	Mohammad Ghaffari	02/08/2019 10:40	Mohammad Ghaffari	2060267
	02/06/2019	02/07/2019 15:30	Mohammad Ghaffari	02/08/2019 21:09	Mohammad Ghaffari	2060265
	02/06/2019	02/07/2019 15:30	Mohammad Ghaffari	02/08/2019 21:22	Mohammad Ghaffari	2060266
	02/06/2019	02/07/2019 15:30	Mohammad Ghaffari	02/08/2019 21:36	Mohammad Ghaffari	2060267
SM 2120 B	02/06/2019			02/06/2019 16:49	Chelsea Hernandez	2060239
	02/06/2019			02/06/2019 16:50	Chelsea Hernandez	2060242
	02/06/2019			02/06/2019 16:51	Chelsea Hernandez	2060243
SM 2320 B-97	02/06/2019			02/13/2019 09:14	Dale L. Simmons	2060242
	02/06/2019			02/15/2019 11:35	Dale L. Simmons	2060239

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2320 B-97	02/06/2019			02/15/2019 11:46	Dale L. Simmons	2060243
SM 2540 C-97	02/06/2019			02/08/2019 15:25	Yijie Li	2060239, 2060242, 2060243
SM 2540 D-97	02/06/2019			02/08/2019 15:25	Yijie Li	2060239, 2060242, 2060243
SM 4500 F-C-97	02/06/2019			02/13/2019 09:14	Dale L. Simmons	2060242
	02/06/2019			02/15/2019 09:18	Dale L. Simmons	2060243
	02/06/2019			02/17/2019 00:24	Dale L. Simmons	2060239
	02/06/2019			02/08/2019 19:08	Chelsea Hernandez	2060240
SM 5310 B-00	02/06/2019			02/08/2019 19:47	Chelsea Hernandez	2060244
	02/06/2019			02/08/2019 19:59	Chelsea Hernandez	2060245