

Chemical Analysis Report

SE-DIST-2018-07-27-02

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

Event Description: **SMP- Martin**
Request ID: **RQ-2018-05-21-24**
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
Attn: Matthew Sewell

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Colin Wright, Program Administrator

Date Certified: 21-AUG-2018 12:11

A handwritten signature in black ink, appearing to read "Colin Wright", 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 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: C-24 CANAL @ PSL

Collection Date/Time: 07/26/2018 10:25

Field ID: G2SE0011

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2011572	EPA 180.1 Rev. 2.0	Turbidity	3.0		NTU	P349326	
	EPA 300.0 Rev. 2.1	Chloride	130		mg Cl/L	P349592	
		Sulfate	36		mg SO4/L	P349595	
	SM 2120 B	Color (true)	120	A	PCU	P349313	
	SM 2320 B-97	Total Alkalinity	141		mg CaCO3/L	P349484	
	SM 2540 C-97	TDS	447		mg/L	P349675	
	SM 2540 D-97	TSS	3	I	mg/L	P349368	
	SM 4500 F-C-97	Fluoride	0.22		mg F/L	P349488	
2011573	EPA 350.1 Rev. 2.0	Ammonia-N	0.012		mg N/L	P349571	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P349446	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.013		mg N/L	P349405	
	EPA 365.1 Rev. 2.0	Total-P	0.19		mg P/L	P349514	
	SM 5310 B-00	Organic Carbon	17		mg C/L	P349690	
2011574	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.12		mg P/L	P349304	
2011587	EPA 8321B	Aldicarb	0.020	U	ug/L	P349361	
		Aldicarb Sulfone	0.0020	U	ug/L	P349361	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P349361	
		Carbaryl	0.0020	U	ug/L	P349361	
		Carbofuran	0.0020	U	ug/L	P349361	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P349361	
		Methiocarb	0.0020	U	ug/L	P349361	
		Methomyl	0.0020	U	ug/L	P349361	
		Oxamyl	0.0020	U	ug/L	P349361	
		Propoxur	0.0020	U	ug/L	P349361	
		2,4-D	0.048	J	ug/L	P349361	MS
		Sucralose**	0.19		ug/L	P349176	
2011588		Bentazon	0.0078		ug/L	P349361	
		MCP	0.0020	U	ug/L	P349361	
		Triclopyr**	0.0040	U	ug/L	P349361	
		Imidacloprid	0.073		ug/L	P349361	
		Diuron	0.0035	I	ug/L	P349361	
		Pyraclostrobin**	0.0020	U	ug/L	P349361	
		Primidone**	0.0040	U	ug/L	P349361	
		Linuron	0.0040	U	ug/L	P349361	
		Acetaminophen**	0.0080	U	ug/L	P349361	
		Fenuron	0.016	U	ug/L	P349361	
		Imazapyr**	0.16		ug/L	P349361	
		Carbamazepine**	0.0017	I	ug/L	P349361	
		Fluridone**	0.094		ug/L	P349361	
		Hydrocodone**	8.0E-04	U	ug/L	P349361	
		Glyphosate**	0.80		ug/L	P349176	MS
		AMPA**	0.70		ug/L	P349176	
		Endothall**	0.10	U	ug/L	P349176	

Field ID: G2SE0011

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2011588	EPA 8321B	Glufosinate**	0.10	U	ug/L	P349176	
2011589	EPA 8270D	Aldrin	4.3	U	ng/L	P349375	
		Alpha-BHC	2.1	U	ng/L	P349375	
		Beta-BHC	4.3	U	ng/L	P349375	
		Delta-BHC	4.3	U	ng/L	P349375	
		Gamma-BHC	4.3	U	ng/L	P349375	
		Carbophenothion	4.3	U	ng/L	P349375	
		Chlorothalonil	2.1	UJ	ng/L	P349375	RPD
		Cypermethrin	21	U	ng/L	P349375	
		DDD-p,p'	3.2	U	ng/L	P349375	
		DDE-p,p'	3.2	U	ng/L	P349375	
		DDT-p,p'	3.2	U	ng/L	P349375	
		Dieldrin	4.3	U	ng/L	P349375	
		Endosulfan I	4.3	U	ng/L	P349375	
		Endosulfan II	4.3	U	ng/L	P349375	
		Endosulfan Sulfate	2.1	U	ng/L	P349375	
		Endrin	2.1	U	ng/L	P349375	
		Endrin Aldehyde	2.1	U	ng/L	P349375	
		Heptachlor	1.6	U	ng/L	P349375	
		Heptachlor Epoxide	2.1	U	ng/L	P349375	
		Methoxychlor	4.3	U	ng/L	P349375	
		Mirex	2.1	U	ng/L	P349375	
		Permethrin	11	U	ng/L	P349375	
		Trifluralin	1.1	U	ng/L	P349375	
		Alpha-Chlordane	1.1	U	ng/L	P349375	
		Gamma-Chlordane	1.1	U	ng/L	P349375	
		Endrin Ketone	2.1	U	ng/L	P349375	
		Dicofol	32	U	ng/L	P349375	
	EPA 8276	Chlordane	2.7	U	ng/L	P349375	
		Toxaphene	32	U	ng/L	P349375	
2011590	EPA 8270D	Alachlor	0.25	U	ng/L	P349532	
		Ametryn	0.32	U	ng/L	P349532	
		Atrazine	51		ng/L	P349532	RPD
		Atrazine Desethyl	10		ng/L	P349532	RPD
		Azinphos Methyl	2.2	U	ng/L	P349532	
		Bromacil	4.5		ng/L	P349532	
		Butylate	0.39	U	ng/L	P349532	RPD
		Chlorpyrifos Ethyl	0.25	U	ng/L	P349532	
		Chlorpyrifos Methyl	0.099	U	ng/L	P349532	
		Demeton	2.0	U	ng/L	P349532	
		Diazinon	0.12	U	ng/L	P349532	
		Disulfoton	0.49	U	ng/L	P349532	
		EPTC	1.2	U	ng/L	P349532	RPD
		Ethion	0.15	U	ng/L	P349532	
		Ethoprop	0.099	U	ng/L	P349532	

Field ID: G2SE0011

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2011590	EPA 8270D	Fenamiphos	0.25	U	ng/L	P349532	
		Fipronil	0.46	I	ng/L	P349532	
		Fipronil Sulfide	0.17	I	ng/L	P349532	RPD
		Fipronil Sulfone	0.67		ng/L	P349532	RPD
		Hexazinone	180		ng/L	P349532	
		Malathion	0.34	U	ng/L	P349532	
		Metribuzin	0.20	U	ng/L	P349532	
		Mevinphos	0.49	U	ng/L	P349532	
		Molinate	0.30	U	ng/L	P349532	
		Norflurazon	61		ng/L	P349532	RPD
		Pendimethalin	0.99	U	ng/L	P349532	
		Phorate	0.25	U	ng/L	P349532	
		Prometon	0.89	U	ng/L	P349532	
		Prometryn	0.20	U	ng/L	P349532	
		Simazine	0.49	U	ng/L	P349532	
		Terbufos	0.099	U	ng/L	P349532	
		Terbuthylazine	0.42	U	ng/L	P349532	
		Fonofos	0.20	U	ng/L	P349532	
		Metalaxyl	5.1		ng/L	P349532	
		Metolachlor	0.61	I	ng/L	P349532	
		Acetochlor	0.25	U	ng/L	P349532	
		Cyanazine	0.49	U	ng/L	P349532	
		Parathion Ethyl	0.25	U	ng/L	P349532	
		Parathion Methyl	0.25	U	ng/L	P349532	

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

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

EPA 8270D: MS accuracy for Atrazine, Simazine, Ametryn, Bromacil, Chlorpyrifos Ethyl, Metolachlor, Hexazinone, and Norflurazon not assessed due to high content of these parameters in the sample spiked.

Sample Location: WARNER @ 24TH

Collection Date/Time: 07/26/2018 11:30

Field ID: G2SE0038

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2011578	EPA 180.1 Rev. 2.0	Turbidity	2.5	A	NTU	P349327	
	EPA 300.0 Rev. 2.1	Chloride	49		mg Cl/L	P349592	
		Sulfate	8.3		mg SO4/L	P349595	
	SM 2120 B	Color (true)	130		PCU	P349313	
	SM 2320 B-97	Total Alkalinity	65		mg CaCO3/L	P349484	
	SM 2540 C-97	TDS	205		mg/L	P349675	
	SM 2540 D-97	TSS	3	I	mg/L	P349368	
	SM 4500 F-C-97	Fluoride	0.043	I	mg F/L	P349488	
2011579	EPA 350.1 Rev. 2.0	Ammonia-N	0.11		mg N/L	P349572	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P349446	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.033		mg N/L	P349405	
	EPA 365.1 Rev. 2.0	Total-P	0.023		mg P/L	P349514	
	SM 5310 B-00	Organic Carbon	23		mg C/L	P349690	
2011580	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P349304	
2011598	EPA 200.7 Rev. 4.4	Calcium	30.8		mg/L	P349462	
		Iron	200		ug/L	P349462	
		Magnesium	2.90		mg/L	P349462	
		Potassium	1.7		mg/L	P349462	
		Sodium	30.3		mg/L	P349462	
		Zinc	5.0	U	ug/L	P349462	
	EPA 200.8 Rev. 5.4	Arsenic	0.80		ug/L	P349462	
		Cadmium	0.020	U	ug/L	P349462	
		Chromium	0.96	I	ug/L	P349462	
		Copper	0.70	I	ug/L	P349462	
		Lead	0.24		ug/L	P349462	
		Nickel	0.28	I	ug/L	P349462	
		Silver	0.010	U	ug/L	P349462	

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: WILLOUGHLY CREEK

Collection Date/Time: 07/26/2018 12:10

Field ID: G2SE0034

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2011575	EPA 180.1 Rev. 2.0	Turbidity	6.4		NTU	P349326	
	SM 2320 B-97	Total Alkalinity	148		mg CaCO3/L	P349485	
	SM 2540 D-97	TSS	10	I	mg/L	P349374	
	SM 4500 F-C-97	Fluoride	0.33		mg F/L	P349657	
2011576	EPA 350.1 Rev. 2.0	Ammonia-N	0.17		mg N/L	P349521	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P349447	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.043		mg N/L	P349444	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P349516	MS
	SM 5310 B-00	Organic Carbon	18		mg C/L	P349461	
2011577	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.058		mg P/L	P349306	
2011597	EPA 200.7 Rev. 4.4	Iron	100	I	ug/L	P349498	
	EPA 200.8 Rev. 5.4	Arsenic	1.81		ug/L	P349498	
		Cadmium	0.060	U	ug/L	P349498	
		Chromium	1.2	U	ug/L	P349498	
		Copper	0.97	I	ug/L	P349498	
		Lead	0.29	I	ug/L	P349498	
		Nickel	0.60	U	ug/L	P349498	
		Silver	0.030	U	ug/L	P349498	
		Zinc	3.0	U	ug/L	P349498	

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P349326

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P349327

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P349462

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P349498

Component	Result	Code	Units
Iron	30	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P349462

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

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P349498

Component	Result	Code	Units
Arsenic	0.050	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Copper	0.20	U	ug/L
Lead	0.050	U	ug/L
Nickel	0.20	U	ug/L
Silver	0.010	U	ug/L
Zinc	1.0	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349592

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349595

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P349521

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P349571

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P349572

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P349446

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P349447

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P349405

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P349444

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P349514

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P349516

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P349304

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P349306

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

Reference Method: EPA 8270D
Batch ID: P349375

Component	Result	Code	Units
Aldrin	4.0	U	ng/L
Alpha-BHC	2.0	U	ng/L
Alpha-Chlordane	1.0	U	ng/L
Beta-BHC	4.0	U	ng/L
Carbophenothion	4.0	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cypermethrin	20	U	ng/L
DDD-p,p'	3.0	U	ng/L
DDE-p,p'	3.0	U	ng/L
DDT-p,p'	3.0	U	ng/L
Delta-BHC	4.0	U	ng/L
Dicofol	30	U	ng/L
Dieldrin	4.0	U	ng/L
Endosulfan I	4.0	U	ng/L
Endosulfan II	4.0	U	ng/L
Endosulfan Sulfate	2.0	U	ng/L
Endrin	2.0	U	ng/L
Endrin Aldehyde	2.0	U	ng/L
Endrin Ketone	2.0	U	ng/L
Gamma-BHC	4.0	U	ng/L
Gamma-Chlordane	1.0	U	ng/L
Heptachlor	1.5	U	ng/L
Heptachlor Epoxide	2.0	U	ng/L
Methoxychlor	4.0	U	ng/L
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Trifluralin	1.0	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D
Batch ID: P349532

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.32	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.2	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Cyanazine	0.50	U	ng/L
Demeton	2.0	U	ng/L
Diazinon	0.12	U	ng/L
Disulfoton	0.50	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Fenamiphos	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Malathion	0.35	U	ng/L
Metaxyl	0.25	U	ng/L
Metolachlor	0.25	U	ng/L
Metribuzin	0.20	U	ng/L
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Norflurazon	0.50	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.25	U	ng/L
Pendimethalin	1.0	U	ng/L
Phorate	0.25	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Simazine	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L

Reference Method: EPA 8276
Batch ID: P349375

Component	Result	Code	Units
Chlordane	2.5	U	ng/L
Toxaphene	30	U	ng/L

Reference Method: EPA 8321B
Batch ID: P349176

Component	Result	Code	Units
AMPA	0.10	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P349176

Component	Result	Code	Units
Endothall	0.10	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: P349361

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	4.0E-04	U	ug/L
Hydrocodone	8.0E-04	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
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: P349313

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P349484

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

Reference Method: SM 2320 B-97
Batch ID: P349485

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 C-97
Batch ID: P349675

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P349368

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P349374

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P349488

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P349657

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P349461

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

Reference Method: SM 5310 B-00
Batch ID: P349690

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: P349462

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	106		P	85 - 115
Iron	106		P	85 - 115
Magnesium	110		P	85 - 115
Potassium	103		P	85 - 115
Sodium	105		P	85 - 115
Zinc	103		P	85 - 115

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P349498

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Iron	105		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P349462

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	101		P	85 - 115
Cadmium	103		P	85 - 115
Chromium	93.7		P	85 - 115
Copper	95.9		P	85 - 115
Lead	97.2		P	85 - 115
Nickel	98.7		P	85 - 115
Silver	98.4		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P349498

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	98.0		P	85 - 115
Cadmium	98.1		P	85 - 115
Chromium	95.2		P	85 - 115
Copper	95.9		P	85 - 115
Lead	95.8		P	85 - 115
Nickel	99.6		P	85 - 115
Silver	101		P	85 - 115
Zinc	97.9		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349592

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349595

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.2		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P349521

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P349571

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P349572

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P349446

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.1		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P349447

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P349405

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P349444

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P349514

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	95.8		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P349516

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	96.2		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P349304

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P349306

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

Reference Method: EPA 8270D
 Batch ID: P349375

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	61.3	58.2	P/P	24 - 89.0
Alpha-BHC	90.3	83.9	P/P	58 - 117
Alpha-Chlordane	88.0	81.5	P/P	56 - 115
Beta-BHC	97.8	91.5	P/P	55 - 137
Carbophenothion	87.7	83.0	P/P	37 - 145
Chlorothalonil	73.3	37.0	P/P	26 - 163
Cypermethrin	76.7	71.7	P/P	42 - 156
DDD-p,p'	99.0	91.5	P/P	59 - 129
DDE-p,p'	93.0	87.0	P/P	52 - 117
DDT-p,p'	92.6	87.5	P/P	48 - 128
Delta-BHC	111	92.5	P/P	59 - 158
Dicofol	84.7	76.8	P/P	19 - 124
Dieldrin	99.5	87.4	P/P	57 - 126
Endosulfan I	94.6	84.6	P/P	59 - 133
Endosulfan II	95.8	84.1	P/P	58 - 148
Endosulfan Sulfate	91.5	79.4	P/P	56 - 135
Endrin	90.7	86.6	P/P	50 - 140
Endrin Aldehyde	94.5	82.2	P/P	47 - 141
Endrin Ketone	91.8	79.5	P/P	63 - 123
Gamma-BHC	111	89.4	P/P	59 - 132
Gamma-Chlordane	84.3	79.6	P/P	55 - 112
Heptachlor	74.4	72.3	P/P	45 - 102
Heptachlor Epoxide	90.0	83.2	P/P	61 - 116
Methoxychlor	94.7	90.9	P/P	60 - 133
Mirex	76.8	74.0	P/P	40 - 98.0
Permethrin	81.0	74.4	P/P	45 - 131
Trifluralin	82.0	81.0	P/P	38 - 179

Reference Method: EPA 8270D
 Batch ID: P349532

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	86.9	102	P/P	74 - 119
Alachlor	85.3	102	P/P	75 - 118
Ametryn	87.3	102	P/P	59 - 137
Atrazine	88.1	101	P/P	73 - 120
Atrazine Desethyl	69.8	73.0	P/P	19 - 129
Azinphos Methyl	91.7	106	P/P	65 - 181
Bromacil	77.0	77.0	P/P	43 - 123
Butylate	55.8	69.2	P/P	28 - 85.0

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
 Batch ID: P349532

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Ethyl	84.9	99.7	P/P	55 - 112
Chlorpyrifos Methyl	81.8	96.3	P/P	35 - 124
Cyanazine	112	117	P/P	26 - 262
Demeton	69.3	85.6	P/P	43 - 122
Diazinon	87.7	104	P/P	72 - 120
Disulfoton	68.6	84.1	P/P	45 - 137
EPTC	56.2	68.0	P/P	28 - 95.0
Ethion	86.7	103	P/P	63 - 127
Ethoprop	74.3	87.4	P/P	63 - 109
Fenamiphos	82.4	96.1	P/P	66 - 136
Fipronil	85.4	96.2	P/P	63 - 126
Fipronil Sulfide	79.4	92.3	P/P	59 - 123
Fipronil Sulfone	71.6	84.6	P/P	56 - 122
Fonofos	73.4	89.3	P/P	64 - 114
Hexazinone	88.8	104	P/P	49 - 144
Malathion	89.2	105	P/P	68 - 131
Metalaxyl	84.7	99.9	P/P	57 - 126
Metolachlor	89.7	107	P/P	75 - 118
Metribuzin	96.6	97.6	P/P	46 - 169
Mevinphos	70.5	87.4	P/P	34 - 126
Molinate	60.3	75.4	P/P	37 - 101
Norflurazon	82.9	93.8	P/P	63 - 127
Parathion Ethyl	82.6	96.7	P/P	78 - 109
Parathion Methyl	86.5	97.9	P/P	74 - 123
Pendimethalin	98.3	118	P/P	51 - 130
Phorate	65.9	79.8	P/P	53 - 116
Prometon	82.8	99.8	P/P	66 - 124
Prometryn	85.5	101	P/P	66 - 124
Simazine	92.3	102	P/P	62 - 134
Terbufos	76.2	89.9	P/P	59 - 115
Terbutylazine	89.2	102	P/P	76 - 113

Reference Method: EPA 8276
 Batch ID: P349375

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	93.0	100	P/P	47 - 125
Toxaphene	73.9	73.8	P/P	46 - 147

Reference Method: EPA 8321B
 Batch ID: P349176

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
AMPA	107		P	40 - 140
Endothall	110		P	40 - 140
Glufosinate	109		P	40 - 140
Glyphosate	121		P	40 - 140
Sucralose	106		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P349361

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	126		P	40 - 150
3-Hydroxycarbofuran	98.4		P	40 - 150
Acetaminophen	85.6		P	30 - 150
Aldicarb	70.3		P	30 - 150
Aldicarb Sulfone	89.6		P	40 - 150
Aldicarb Sulfoxide	88.3		P	40 - 150
Bentazon	88.1		P	30 - 150
Carbamazepine	115		P	40 - 150
Carbaryl	88.3		P	40 - 150
Carbofuran	98.5		P	40 - 150
Diuron	90.5		P	40 - 150
Fenuron	105		P	40 - 150
Fluridone	105		P	40 - 150
Hydrocodone	98.0		P	40 - 150
Imazapyr	108		P	40 - 150
Imidacloprid	98.7		P	40 - 160
Linuron	80.2		P	40 - 150
MCPP	126		P	40 - 150
Methiocarb	87.3		P	40 - 150
Methomyl	112		P	40 - 150
Oxamyl	86.6		P	40 - 150
Primidone	115		P	40 - 150
Propoxur	96.3		P	40 - 150
Pyraclostrobin	86.9		P	40 - 150
Triclopyr	133		P	40 - 150

Reference Method: SM 2120 B
Batch ID: P349313

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.6		P	85 - 115

Reference Method: SM 2320 B-97
Batch ID: P349484

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

Reference Method: SM 2320 B-97
Batch ID: P349485

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

Reference Method: SM 4500 F-C-97
Batch ID: P349488

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.6		P	91 - 105

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P349657

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.7		P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P349461

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	93.9		P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P349690

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	93.9		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P349462

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011598	Calcium	94.0		P	80 - 120
2011598	Iron	106		P	80 - 120
2011598	Magnesium	107		P	80 - 120
2011598	Potassium	101		P	80 - 120
2011598	Sodium	89.3		P	80 - 120
2011598	Zinc	106		P	80 - 120
2011701	Calcium	104		P	80 - 120
2011701	Iron	107	105	P/P	80 - 120
2011701	Magnesium	110	107	P/P	80 - 120
2011701	Potassium	105	103	P/P	80 - 120
2011701	Sodium	106	103	P/P	80 - 120
2011701	Zinc	103	102	P/P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P349498

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2010697	Iron	103	105	P/P	70 - 130

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P349462

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011598	Arsenic	105		P	80 - 120
2011598	Cadmium	105		P	80 - 120
2011598	Chromium	94.9		P	80 - 120
2011598	Copper	97.1		P	80 - 120
2011598	Lead	100		P	80 - 120
2011598	Nickel	98.7		P	80 - 120
2011598	Silver	98.0		P	80 - 120
2011701	Arsenic	104	102	P/P	80 - 120
2011701	Cadmium	105	104	P/P	80 - 120
2011701	Chromium	97.5	95.8	P/P	80 - 120
2011701	Copper	98.8	96.6	P/P	80 - 120
2011701	Lead	98.3	97.9	P/P	80 - 120
2011701	Nickel	101	99.0	P/P	80 - 120
2011701	Silver	100	98.6	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P349498

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2010697	Arsenic	103	105	P/P	70 - 130
2010697	Cadmium	92.4	92.7	P/P	70 - 130
2010697	Chromium	83.1	85.8	P/P	70 - 130
2010697	Copper	91.8	92.6	P/P	70 - 130
2010697	Lead	109	108	P/P	70 - 130
2010697	Nickel	90.8	90.8	P/P	70 - 130
2010697	Silver	91.5	90.4	P/P	70 - 130
2010697	Zinc	89.1	89.7	P/P	70 - 130

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349592

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011483	Chloride	102		P	90 - 110
2011594	Chloride	108		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349595

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011483	Sulfate	99.8		P	90 - 110
2011594	Sulfate	104		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P349521

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2010508	Ammonia-N	103	102	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P349571

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011573	Ammonia-N	100	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P349572

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011650	Ammonia-N	97.1	98.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P349446

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011557	Kjeldahl Nitrogen	100	97.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P349447

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011612	Kjeldahl Nitrogen	105	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P349405

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011557	NO2NO3-N	104		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P349444

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011159	NO2NO3-N	102	102	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P349514

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011557	Total-P	101	92.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P349516

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011612	Total-P	90.2	87.3	P/F	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P349304

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011658	O-Phosphate-P	93.1	94.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P349306

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011615	O-Phosphate-P	95.2	97.7	P/P	90 - 110

Reference Method: EPA 8270D
Batch ID: P349375

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011772	Aldrin	67.1	62.0	P/P	26 - 96.0
2011772	Alpha-BHC	78.9	74.6	P/P	51 - 123
2011772	Alpha-Chlordane	92.2	85.1	P/P	45 - 120
2011772	Beta-BHC	110	121	P/P	43 - 146
2011772	Carbophenothion	90.1	80.9	P/P	26 - 179
2011772	Chlorothalonil	79.0	66.4	P/P	10 - 215
2011772	Cypermethrin	90.0	83.8	P/P	35 - 169
2011772	DDD-p,p'	101	102	P/P	49 - 131
2011772	DDE-p,p'	95.5	90.6	P/P	39 - 127
2011772	DDT-p,p'	100	96.6	P/P	49 - 120
2011772	Delta-BHC	151	122	P/P	49 - 187
2011772	Dicofol	96.3	86.8	P/P	10 - 129
2011772	Dieldrin	97.8	97.1	P/P	46 - 132
2011772	Endosulfan I	92.7	89.1	P/P	57 - 130
2011772	Endosulfan II	97.2	102	P/P	52 - 148
2011772	Endosulfan Sulfate	93.1	96.8	P/P	55 - 129
2011772	Endrin	91.4	90.1	P/P	45 - 133
2011772	Endrin Aldehyde	91.7	88.1	P/P	26 - 140
2011772	Endrin Ketone	97.9	97.1	P/P	60 - 125
2011772	Gamma-BHC	118	113	P/P	50 - 145
2011772	Gamma-Chlordane	87.5	81.1	P/P	44 - 118
2011772	Heptachlor	76.4	67.5	P/P	35 - 106
2011772	Heptachlor Epoxide	92.9	86.2	P/P	52 - 123
2011772	Methoxychlor	101	105	P/P	54 - 132
2011772	Mirex	85.6	81.8	P/P	36 - 107
2011772	Permethrin	93.7	86.9	P/P	47 - 135
2011772	Trifluralin	87.8	88.3	P/P	32 - 228

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P349532

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2010748	Acetochlor	102	105	P/P	67 - 125
2010748	Alachlor	106	109	P/P	69 - 123
2010748	Atrazine Desethyl	42.8	92.7	P/P	10 - 129
2010748	Azinphos Methyl	97.2	112	P/P	48 - 200
2010748	Butylate	64.5	35.2	P/P	10 - 85.0
2010748	Chlorpyrifos Methyl	96.2	99.4	P/P	44 - 117
2010748	Cyanazine	101	135	P/P	10 - 262
2010748	Demeton	84.6	81.9	P/P	24 - 145
2010748	Diazinon	114	116	P/P	66 - 129
2010748	Disulfoton	90.9	94.0	P/P	45 - 139
2010748	EPTC	64.1	32.3	P/P	10 - 86.0
2010748	Ethion	96.9	104	P/P	59 - 133
2010748	Ethoprop	93.8	91.6	P/P	54 - 116
2010748	Fenamiphos	88.5	94.8	P/P	55 - 140
2010748	Fipronil	75.8	97.6	P/P	37 - 142
2010748	Fipronil Sulfide	65.8	90.9	P/P	37 - 130
2010748	Fipronil Sulfone	42.4	74.5	P/P	18 - 143
2010748	Fonofos	95.8	98.2	P/P	55 - 118
2010748	Malathion	97.9	104	P/P	64 - 132
2010748	Metalaxyl	103	112	P/P	55 - 129
2010748	Metribuzin	134	158	P/P	16 - 218
2010748	Mevinphos	88.3	90.9	P/P	34 - 129
2010748	Molinate	69.1	52.8	P/P	16 - 99.0
2010748	Parathion Ethyl	96.9	102	P/P	71 - 112
2010748	Parathion Methyl	97.1	110	P/P	65 - 127
2010748	Pendimethalin	138	138	P/P	35 - 159
2010748	Phorate	98.0	94.6	P/P	41 - 129
2010748	Prometon	91.5	103	P/P	56 - 140
2010748	Prometryn	105	112	P/P	65 - 130
2010748	Terbufos	97.5	99.3	P/P	53 - 126
2010748	Terbuthylazine	98.8	106	P/P	73 - 114

Reference Method: EPA 8276
Batch ID: P349375

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011589	Chlordane	105	110	P/P	41 - 134
2011589	Toxaphene	70.5	63.8	P/P	39 - 158

Reference Method: EPA 8321B
Batch ID: P349176

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2010469	Endothall	71.1	62.2	P/P	40 - 140
2010469	Sucralose	60.6	73.9	P/P	40 - 150
2010746	AMPA	78.7	78.1	P/P	40 - 140
2010746	Glufosinate	105	117	P/P	40 - 140
2010746	Glyphosate	134	146	P/F	40 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P349361

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011588	2,4-D	124	153	P/F	40 - 150
2011588	3-Hydroxycarbofuran	76.4	80.6	P/P	40 - 150
2011588	Acetaminophen	81.1	88.4	P/P	30 - 150
2011588	Aldicarb	67.7	60.5	P/P	30 - 150
2011588	Aldicarb Sulfone	90.7	106	P/P	40 - 150
2011588	Aldicarb Sulfoxide	90.7	93.0	P/P	40 - 150
2011588	Bentazon	46.6	45.3	P/P	30 - 150
2011588	Carbamazepine	71.8	68.5	P/P	40 - 150
2011588	Carbaryl	44.7	57.3	P/P	40 - 150
2011588	Carbofuran	67.3	50.9	P/P	40 - 150
2011588	Diuron	60.6	47.7	P/P	40 - 150
2011588	Fenuron	87.3	85.3	P/P	40 - 150
2011588	Fluridone	93.2	74.2	P/P	40 - 150
2011588	Hydrocodone	81.9	81.0	P/P	40 - 150
2011588	Imazapyr	101	88.9	P/P	40 - 150
2011588	Imidacloprid	134	149	P/P	40 - 160
2011588	Linuron	48.6	59.1	P/P	40 - 150
2011588	MCP	121	119	P/P	40 - 150
2011588	Methiocarb	61.0	58.7	P/P	40 - 150
2011588	Methomyl	89.3	86.1	P/P	40 - 150
2011588	Oxamyl	74.6	94.9	P/P	40 - 150
2011588	Primidone	87.6	82.0	P/P	40 - 150
2011588	Propoxur	63.7	60.9	P/P	40 - 150
2011588	Pyraclostrobin	75.3	75.1	P/P	40 - 150
2011588	Triclopyr	121	121	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P349488

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011556	Fluoride	96.9	97.7	P/P	91 - 105

Reference Method: SM 4500 F-C-97
Batch ID: P349657

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011575	Fluoride	96.0	95.4	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P349461

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011576	Organic Carbon	94.0	92.8	P/P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P349690

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011652	Organic Carbon	96.0	95.3	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P349326

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011482	Turbidity	4.15	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P349327

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011578	Turbidity	2.37	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P349462

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011701	Calcium	1.75	Spike	P	0 - 20
2011701	Iron	1.91	Spike	P	0 - 20
2011701	Magnesium	2.84	Spike	P	0 - 20
2011701	Potassium	2.50	Spike	P	0 - 20
2011701	Sodium	1.88	Spike	P	0 - 20
2011701	Zinc	1.52	Spike	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P349498

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010697	Iron	1.74	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P349462

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011701	Arsenic	2.04	Spike	P	0 - 20
2011701	Cadmium	0.923	Spike	P	0 - 20
2011701	Chromium	1.82	Spike	P	0 - 20
2011701	Copper	2.21	Spike	P	0 - 20
2011701	Lead	0.389	Spike	P	0 - 20
2011701	Nickel	1.94	Spike	P	0 - 20
2011701	Silver	1.73	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P349498

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010697	Arsenic	1.14	Spike	P	0 - 20
2010697	Cadmium	0.338	Spike	P	0 - 20
2010697	Chromium	3.29	Spike	P	0 - 20
2010697	Copper	0.740	Spike	P	0 - 20
2010697	Lead	0.795	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P349498

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010697	Nickel	0.0799	Spike	P	0 - 20
2010697	Silver	1.21	Spike	P	0 - 20
2010697	Zinc	0.635	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349592

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011483	Chloride	4.04	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349595

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011483	Sulfate	3.88	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P349521

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010508	Ammonia-N	0.595	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P349571

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011573	Ammonia-N	0.163	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P349572

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011650	Ammonia-N	0.859	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P349446

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011557	Kjeldahl Nitrogen	1.91	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P349447

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P349447

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011612	Kjeldahl Nitrogen	3.87	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P349405

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011557	NO2NO3-N	0.433	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P349444

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011159	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P349514

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011557	Total-P	7.70	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P349516

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011612	Total-P	3.21	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P349304

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011658	O-Phosphate-P	1.38	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P349306

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011615	O-Phosphate-P	2.59	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P349375

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011772	Aldrin	7.88	Spike	P	0 - 30
2011772	Alpha-BHC	5.66	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P349375

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011772	Alpha-Chlordane	7.98	Spike	P	0 - 30
2011772	Beta-BHC	9.23	Spike	P	0 - 30
2011772	Carbophenothion	10.8	Spike	P	0 - 30
2011772	Chlorothalonil	17.4	Spike	P	0 - 30
2011772	Cypermethrin	7.11	Spike	P	0 - 30
2011772	DDD-p,p'	1.31	Spike	P	0 - 30
2011772	DDE-p,p'	5.28	Spike	P	0 - 30
2011772	DDT-p,p'	3.49	Spike	P	0 - 30
2011772	Delta-BHC	21.3	Spike	P	0 - 30
2011772	Dicofol	10.4	Spike	P	0 - 30
2011772	Dieldrin	0.636	Spike	P	0 - 30
2011772	Endosulfan I	3.95	Spike	P	0 - 30
2011772	Endosulfan II	4.72	Spike	P	0 - 30
2011772	Endosulfan Sulfate	3.95	Spike	P	0 - 30
2011772	Endrin	1.42	Spike	P	0 - 30
2011772	Endrin Aldehyde	3.97	Spike	P	0 - 30
2011772	Endrin Ketone	0.825	Spike	P	0 - 30
2011772	Gamma-BHC	3.87	Spike	P	0 - 30
2011772	Gamma-Chlordane	7.53	Spike	P	0 - 30
2011772	Heptachlor	12.5	Spike	P	0 - 30
2011772	Heptachlor Epoxide	7.42	Spike	P	0 - 30
2011772	Methoxychlor	3.65	Spike	P	0 - 30
2011772	Mirex	4.56	Spike	P	0 - 30
2011772	Permethrin	7.58	Spike	P	0 - 30
2011772	Trifluralin	0.608	Spike	P	0 - 30
LFB	Aldrin	5.20	LCS	P	0 - 30
LFB	Alpha-BHC	7.42	LCS	P	0 - 30
LFB	Alpha-Chlordane	7.73	LCS	P	0 - 30
LFB	Beta-BHC	6.66	LCS	P	0 - 30
LFB	Carbophenothion	5.49	LCS	P	0 - 30
LFB	Chlorothalonil	65.7	LCS	F	0 - 30
LFB	Cypermethrin	6.73	LCS	P	0 - 30
LFB	DDD-p,p'	7.92	LCS	P	0 - 30
LFB	DDE-p,p'	6.58	LCS	P	0 - 30
LFB	DDT-p,p'	5.71	LCS	P	0 - 30
LFB	Delta-BHC	18.3	LCS	P	0 - 30
LFB	Dicofol	9.82	LCS	P	0 - 30
LFB	Dieldrin	12.9	LCS	P	0 - 30
LFB	Endosulfan I	11.2	LCS	P	0 - 30
LFB	Endosulfan II	13.0	LCS	P	0 - 30
LFB	Endosulfan Sulfate	14.2	LCS	P	0 - 30
LFB	Endrin	4.62	LCS	P	0 - 30
LFB	Endrin Aldehyde	13.9	LCS	P	0 - 30
LFB	Endrin Ketone	14.4	LCS	P	0 - 30
LFB	Gamma-BHC	21.5	LCS	P	0 - 30
LFB	Gamma-Chlordane	5.80	LCS	P	0 - 30
LFB	Heptachlor	2.88	LCS	P	0 - 30
LFB	Heptachlor Epoxide	7.93	LCS	P	0 - 30
LFB	Methoxychlor	4.12	LCS	P	0 - 30
LFB	Mirex	3.66	LCS	P	0 - 30
LFB	Permethrin	8.59	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P349375

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Trifluralin	1.16	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P349532

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010748	Acetochlor	2.71	Spike	P	0 - 30
2010748	Alachlor	2.77	Spike	P	0 - 30
2010748	Ametryn	1.83	Spike	P	0 - 30
2010748	Atrazine	39.3	Spike	F	0 - 30
2010748	Atrazine Desethyl	30.1	Spike	F	0 - 30
2010748	Azinphos Methyl	14.1	Spike	P	0 - 30
2010748	Bromacil	10.3	Spike	P	0 - 30
2010748	Butylate	58.7	Spike	F	0 - 30
2010748	Chlorpyrifos Ethyl	2.77	Spike	P	0 - 30
2010748	Chlorpyrifos Methyl	3.31	Spike	P	0 - 30
2010748	Cyanazine	29.1	Spike	P	0 - 30
2010748	Demeton	3.30	Spike	P	0 - 30
2010748	Diazinon	0.932	Spike	P	0 - 30
2010748	Disulfoton	3.35	Spike	P	0 - 30
2010748	EPTC	66.1	Spike	F	0 - 30
2010748	Ethion	6.78	Spike	P	0 - 30
2010748	Ethoprop	2.34	Spike	P	0 - 30
2010748	Fenamiphos	6.88	Spike	P	0 - 30
2010748	Fipronil	25.2	Spike	P	0 - 30
2010748	Fipronil Sulfide	32.1	Spike	F	0 - 30
2010748	Fipronil Sulfone	54.9	Spike	F	0 - 30
2010748	Fonofos	2.51	Spike	P	0 - 30
2010748	Hexazinone	1.92	Spike	P	0 - 30
2010748	Malathion	6.11	Spike	P	0 - 30
2010748	Metalaxyl	6.15	Spike	P	0 - 30
2010748	Metolachlor	1.96	Spike	P	0 - 30
2010748	Metribuzin	16.1	Spike	P	0 - 30
2010748	Mevinphos	2.92	Spike	P	0 - 30
2010748	Molinate	26.8	Spike	P	0 - 30
2010748	Norflurazon	34.7	Spike	F	0 - 30
2010748	Parathion Ethyl	5.23	Spike	P	0 - 30
2010748	Parathion Methyl	12.9	Spike	P	0 - 30
2010748	Pendimethalin	0.495	Spike	P	0 - 30
2010748	Phorate	3.45	Spike	P	0 - 30
2010748	Prometon	11.8	Spike	P	0 - 30
2010748	Prometryn	6.54	Spike	P	0 - 30
2010748	Simazine	0.708	Spike	P	0 - 30
2010748	Terbufos	1.89	Spike	P	0 - 30
2010748	Terbutylazine	6.97	Spike	P	0 - 30
LFB	Acetochlor	15.6	LCS	P	0 - 30
LFB	Alachlor	17.8	LCS	P	0 - 30
LFB	Ametryn	16.0	LCS	P	0 - 30
LFB	Atrazine	14.0	LCS	P	0 - 30
LFB	Atrazine Desethyl	4.45	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P349532

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Azinphos Methyl	14.4	LCS	P	0 - 30
LFB	Bromacil	0.0933	LCS	P	0 - 30
LFB	Butylate	21.4	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	16.0	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	16.3	LCS	P	0 - 30
LFB	Cyanazine	4.00	LCS	P	0 - 30
LFB	Demeton	20.9	LCS	P	0 - 30
LFB	Diazinon	16.9	LCS	P	0 - 30
LFB	Disulfoton	20.4	LCS	P	0 - 30
LFB	EPTC	19.0	LCS	P	0 - 30
LFB	Ethion	17.4	LCS	P	0 - 30
LFB	Ethoprop	16.2	LCS	P	0 - 30
LFB	Fenamiphos	15.3	LCS	P	0 - 30
LFB	Fipronil	12.0	LCS	P	0 - 30
LFB	Fipronil Sulfide	15.0	LCS	P	0 - 30
LFB	Fipronil Sulfone	16.7	LCS	P	0 - 30
LFB	Fonofos	19.4	LCS	P	0 - 30
LFB	Hexazinone	15.6	LCS	P	0 - 30
LFB	Malathion	16.1	LCS	P	0 - 30
LFB	Metalaxyl	16.5	LCS	P	0 - 30
LFB	Metolachlor	17.5	LCS	P	0 - 30
LFB	Metribuzin	1.10	LCS	P	0 - 30
LFB	Mevinphos	21.3	LCS	P	0 - 30
LFB	Molinate	22.3	LCS	P	0 - 30
LFB	Norflurazon	12.4	LCS	P	0 - 30
LFB	Parathion Ethyl	15.8	LCS	P	0 - 30
LFB	Parathion Methyl	12.3	LCS	P	0 - 30
LFB	Pendimethalin	18.1	LCS	P	0 - 30
LFB	Phorate	19.1	LCS	P	0 - 30
LFB	Prometon	18.6	LCS	P	0 - 30
LFB	Prometryn	16.9	LCS	P	0 - 30
LFB	Simazine	9.51	LCS	P	0 - 30
LFB	Terbufos	16.5	LCS	P	0 - 30
LFB	Terbuthylazine	12.9	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P349375

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011589	Chlordane	4.67	Spike	P	0 - 30
2011589	Toxaphene	9.97	Spike	P	0 - 30
LFB	Chlordane	7.53	LCS	P	0 - 30
LFB	Toxaphene	0.129	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P349176

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010469	Endothall	13.3	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P349176

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010469	Sucralose	19.7	Spike	P	0 - 30
2010746	AMPA	0.470	Spike	P	0 - 30
2010746	Glufosinate	11.5	Spike	P	0 - 30
2010746	Glyphosate	5.33	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P349361

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011588	2,4-D	14.7	Spike	P	0 - 30
2011588	3-Hydroxycarbofuran	5.35	Spike	P	0 - 30
2011588	Acetaminophen	8.52	Spike	P	0 - 30
2011588	Aldicarb	11.2	Spike	P	0 - 30
2011588	Aldicarb Sulfone	15.5	Spike	P	0 - 30
2011588	Aldicarb Sulfoxide	2.50	Spike	P	0 - 30
2011588	Bentazon	2.31	Spike	P	0 - 30
2011588	Carbamazepine	4.61	Spike	P	0 - 30
2011588	Carbaryl	24.6	Spike	P	0 - 30
2011588	Carbofuran	27.7	Spike	P	0 - 30
2011588	Diuron	21.9	Spike	P	0 - 30
2011588	Fenuron	2.34	Spike	P	0 - 30
2011588	Fluridone	9.41	Spike	P	0 - 30
2011588	Hydrocodone	1.06	Spike	P	0 - 30
2011588	Imazapyr	4.03	Spike	P	0 - 30
2011588	Imidacloprid	6.51	Spike	P	0 - 30
2011588	Linuron	19.4	Spike	P	0 - 30
2011588	MCPP	1.76	Spike	P	0 - 30
2011588	Methiocarb	3.83	Spike	P	0 - 30
2011588	Methomyl	3.69	Spike	P	0 - 30
2011588	Oxamyl	23.9	Spike	P	0 - 30
2011588	Primidone	6.60	Spike	P	0 - 30
2011588	Propoxur	4.50	Spike	P	0 - 30
2011588	Pyraclostrobin	0.342	Spike	P	0 - 30
2011588	Triclopyr	0.157	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P349313

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011572	Color (true)	0.0298	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P349484

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011556	Total Alkalinity	0.661	Sample	P	0 - 1.6

Quality Assurance Report Precision

Reference Method: SM 2320 B-97
 Batch ID: P349485

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011609	Total Alkalinity	1.34	Sample	P	0 - 1.6

Reference Method: SM 2540 C-97
 Batch ID: P349675

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010788	TDS	7.23	Sample	P	0 - 10

Reference Method: SM 2540 D-97
 Batch ID: P349374

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010505	TSS	3.08	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
 Batch ID: P349488

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011556	Fluoride	0.520	Spike	P	0 - 3.5

Reference Method: SM 4500 F-C-97
 Batch ID: P349657

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011575	Fluoride	0.476	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
 Batch ID: P349461

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011576	Organic Carbon	0.911	Spike	P	0 - 20

Reference Method: SM 5310 B-00
 Batch ID: P349690

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011652	Organic Carbon	0.565	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: 2011587
Field Sample ID: G2SE0011

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	39.7	P	30 - 160

Lab Sample ID: 2011588
Field Sample ID: G2SE0011

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	103	P	30 - 160
EPA 8321B	Acetaminophen-d4	90.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	62.4	P	30 - 160
EPA 8321B	Diuron-d6	51.4	P	30 - 160
EPA 8321B	Endothall-d6	118	P	40 - 160
EPA 8321B	Endothall-d6	118	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	84.2	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	84.2	P	40 - 160
EPA 8321B	Primidone-d5	80.3	P	30 - 160
EPA 8321B	Sucralose-d6	129	P	40 - 160
EPA 8321B	Sucralose-d6	129	P	40 - 160

Lab Sample ID: 2011589
Field Sample ID: G2SE0011

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	81.1	P	37 - 117
EPA 8270D	Tetrachloro-m-xylene	57.7	P	34 - 101
EPA 8276	Decachlorobiphenyl	67.3	P	31 - 108
EPA 8276	PCNB	98.9	P	62 - 142

Lab Sample ID: 2011590
Field Sample ID: G2SE0011

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	106	P	71 - 126
EPA 8270D	Terbufos-d10	127	P	59 - 149

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A85530

Included Lab Sample IDs: 2011574, 2011577, 2011580

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.8	99.0	P/P	90 - 110
O-Phosphate-P	99.0	98.2	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A85532

Included Lab Sample IDs: 2011572, 2011578

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A85537

Included Lab Sample IDs: 2011572, 2011575, 2011578

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	102	102	P/P	95 - 105
Turbidity	99.5	102	P/P	95 - 105

Reference Method: EPA 8321B

Run ID: A85545

Included Lab Sample IDs: 2011588

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	132	135	P/P	60 - 160
Glufosinate	88.6	90.7	P/P	60 - 160
Glyphosate	105	121	P/P	60 - 160

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A85559

Included Lab Sample IDs: 2011573, 2011579

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A85560

Included Lab Sample IDs: 2011572, 2011578

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.9	102	P/P	90 - 110
Sulfate	100	103	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A85567

Included Lab Sample IDs: 2011588

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endothall	114	105	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A85582

Included Lab Sample IDs: 2011576

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	101	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A85590

Included Lab Sample IDs: 2011576

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.8	97.6	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A85602

Included Lab Sample IDs: 2011588

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	122	110	P/P	60 - 160

Reference Method: SM 2320 B-97

Run ID: A85607

Included Lab Sample IDs: 2011572, 2011575, 2011578

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

Reference Method: SM 4500 F-C-97

Run ID: A85607

Included Lab Sample IDs: 2011572, 2011578

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.1	99.5	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A85619

Included Lab Sample IDs: 2011598

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	103	102	P/P	90 - 110
Iron	103	102	P/P	90 - 110
Magnesium	104	103	P/P	90 - 110
Potassium	100	97.9	P/P	90 - 110
Sodium	99.9	100	P/P	90 - 110
Zinc	102	104	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A85621

Included Lab Sample IDs: 2011576

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A85630

Included Lab Sample IDs: 2011573, 2011576

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	94.4	94.2	P/P	90 - 110
Total-P	94.7	95.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A85636

Included Lab Sample IDs: 2011579

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A85647

Included Lab Sample IDs: 2011573, 2011576, 2011579

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.6	99.4	P/P	90 - 110
Kjeldahl Nitrogen	99.4	97.7	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A85648

Included Lab Sample IDs: 2011573, 2011579

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	97.9	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A85663

Included Lab Sample IDs: 2011597

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A85689

Included Lab Sample IDs: 2011598

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	101	103	P/P	90 - 110
Cadmium	100	102	P/P	90 - 110
Chromium	94.2	96.2	P/P	90 - 110
Copper	98.0	98.5	P/P	90 - 110
Lead	99.1	98.1	P/P	90 - 110
Nickel	98.2	99.2	P/P	90 - 110
Silver	95.8	96.7	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A85692

Included Lab Sample IDs: 2011575

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

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-00

Run ID: A85704

Included Lab Sample IDs: 2011573, 2011579

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.1	98.5	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A85706

Included Lab Sample IDs: 2011597

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chromium	97.9	96.0	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A85707

Included Lab Sample IDs: 2011597

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	100	101	P/P	90 - 110
Cadmium	98.4	96.9	P/P	90 - 110
Copper	99.8	101	P/P	90 - 110
Lead	98.7	98.6	P/P	90 - 110
Nickel	101	101	P/P	90 - 110
Silver	101	100	P/P	90 - 110
Zinc	99.8	99.8	P/P	90 - 110

Reference Method: EPA 8270D

Run ID: A85774

Included Lab Sample IDs: 2011589

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	96.1		P	80 - 120
Alpha-BHC	98.4		P	80 - 120
Alpha-Chlordane	95.7		P	80 - 120
Beta-BHC	98.1		P	80 - 120
Carbophenothion	87.6		P	80 - 120
Chlorothalonil	95.9		P	80 - 120
Cypermethrin	85.5		P	80 - 120
DDD-p,p'	98.6		P	80 - 120
DDE-p,p'	99.9		P	80 - 120
DDT-p,p'	108		P	80 - 120
Delta-BHC	99.9		P	80 - 120
Dicofol	106		P	80 - 120
Dieldrin	93.7		P	80 - 120
Endosulfan I	94.7		P	80 - 120
Endosulfan II	107		P	80 - 120
Endosulfan Sulfate	97.6		P	80 - 120
Endrin	92.3		P	80 - 120
Endrin Aldehyde	91.8		P	80 - 120
Endrin Ketone	96.9		P	80 - 120
Gamma-BHC	106		P	80 - 120
Gamma-Chlordane	93.4		P	80 - 120
Heptachlor	94.9		P	80 - 120
Heptachlor Epoxide	96.1		P	80 - 120
Methoxychlor	107		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D
Run ID: A85774
Included Lab Sample IDs: 2011589

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Mirex	103		P	80 - 120
Permethrin	93.7		P	80 - 120
Trifluralin	99.1		P	80 - 120

Reference Method: EPA 8276
Run ID: A85790
Included Lab Sample IDs: 2011589

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	103		P	80 - 120
Toxaphene	95.3		P	80 - 120

Reference Method: EPA 8321B
Run ID: A85801
Included Lab Sample IDs: 2011587

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	109	111	P/P	50 - 150
Acetaminophen	114	113	P/P	60 - 160
Aldicarb	99.2	105	P/P	60 - 150
Aldicarb Sulfone	103	117	P/P	50 - 150
Aldicarb Sulfoxide	104	89.8	P/P	50 - 150
Carbamazepine	109	101	P/P	60 - 160
Carbaryl	102	87.3	P/P	60 - 150
Carbofuran	110	99.1	P/P	50 - 150
Diuron	97.0	92.0	P/P	60 - 150
Fenuron	104	101	P/P	60 - 150
Fluridone	103	100	P/P	60 - 160
Hydrocodone	93.6	96.3	P/P	60 - 150
Imazapyr	94.8	87.1	P/P	50 - 150
Imidacloprid	96.2	95.8	P/P	60 - 150
Linuron	97.4	94.2	P/P	60 - 150
Methiocarb	129	118	P/P	50 - 150
Methomyl	105	139	P/P	50 - 150
Oxamyl	111	88.9	P/P	50 - 150
Primidone	97.8	110	P/P	60 - 150
Propoxur	112	117	P/P	50 - 150
Pyraclostrobin	90.0	85.0	P/P	60 - 150

Reference Method: EPA 8321B
Run ID: A85823
Included Lab Sample IDs: 2011588

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	111	146	P/P	50 - 150
Bentazon	99.3	101	P/P	50 - 160
MCPP	107	115	P/P	50 - 150
Triclopyr	121	133	P/P	50 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D
Run ID: A85884
Included Lab Sample IDs: 2011590

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	94.5		P	80 - 120
Alachlor	96.2		P	80 - 120
Ametryn	95.8		P	80 - 120
Atrazine Desethyl	105		P	80 - 120
Azinphos Methyl	96.3		P	80 - 120
Bromacil	97.9		P	80 - 120
Butylate	89.9		P	80 - 120
Chlorpyrifos Ethyl	97.0		P	80 - 120
Chlorpyrifos Methyl	97.6		P	80 - 120
Cyanazine	103		P	80 - 120
Demeton	106		P	80 - 120
Diazinon	96.0		P	80 - 120
Disulfoton	94.7		P	80 - 120
EPTC	97.1		P	80 - 120
Ethion	94.5		P	80 - 120
Ethoprop	99.3		P	80 - 120
Fenamiphos	93.2		P	80 - 120
Fipronil	93.7		P	80 - 120
Fipronil Sulfide	96.3		P	80 - 120
Fipronil Sulfone	96.7		P	80 - 120
Fonofos	97.8		P	80 - 120
Malathion	97.9		P	80 - 120
Metaxyl	96.6		P	80 - 120
Metolachlor	98.7		P	80 - 120
Metribuzin	102		P	80 - 120
Mevinphos	101		P	80 - 120
Molinate	100		P	80 - 120
Norflurazon	97.5		P	80 - 120
Parathion Ethyl	93.5		P	80 - 120
Parathion Methyl	94.4		P	80 - 120
Pendimethalin	102		P	80 - 120
Phorate	95.1		P	80 - 120
Prometon	94.5		P	80 - 120
Prometryn	94.2		P	80 - 120
Simazine	95.9		P	80 - 120
Terbufos	94.4		P	80 - 120
Terbuthylazine	94.5		P	80 - 120

Reference Method: EPA 8270D
Run ID: A85889
Included Lab Sample IDs: 2011590

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	97.6		P	80 - 120
Hexazinone	97.7		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		LCS	Precision	MS
							SMP	
EPA 180.1 Rev. 2.0	Turbidity						4.15	
	Turbidity						2.37	
EPA 200.7 Rev. 4.4	Calcium	106		94.0	104			1.75
	Iron	106		106	107	105		1.91
	Iron	105		103	105			1.74
	Magnesium	110		107	110	107		2.84
	Potassium	103		101	105	103		2.50
	Sodium	105		89.3	106	103		1.88
	Zinc	103		106	103	102		1.52
EPA 200.8 Rev. 5.4	Arsenic	101		105	104	102		2.04
	Arsenic	98.0		103	105			1.14
	Cadmium	103		105	105	104		0.923
	Cadmium	98.1		92.4	92.7			0.338
	Chromium	93.7		94.9	97.5	95.8		1.82
	Chromium	95.2		83.1	85.8			3.29
	Copper	95.9		97.1	98.8	96.6		2.21
	Copper	95.9		91.8	92.6			0.740
	Lead	97.2		100	98.3	97.9		0.389
	Lead	95.8		109	108			0.795
	Nickel	98.7		98.7	101	99.0		1.94
	Nickel	99.6		90.8	90.8			0.0799
	Silver	98.4		98.0	100	98.6		1.73
	Silver	101		91.5	90.4			1.21
	Zinc	97.9		89.1	89.7			0.635
EPA 300.0 Rev. 2.1	Chloride	97.1		102	108		4.04	
	Sulfate	97.2		99.8	104		3.88	
EPA 350.1 Rev. 2.0	Ammonia-N	102		103	102			0.595
	Ammonia-N	101		100	101			0.163
	Ammonia-N	98.8		97.1	98.0			0.859
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.1		100	97.4			1.91
	Kjeldahl Nitrogen	101		105	100			3.87
EPA 353.2 Rev. 2.0	NO2NO3-N	102		104				0.433
	NO2NO3-N	102		102	102			0.0
EPA 365.1 Rev. 2.0	Total-P	95.8		101	92.0			7.70
	Total-P	96.2		90.2	87.3			3.21
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.2		93.1	94.5			1.38
	O-Phosphate-P	101		95.2	97.7			2.59
EPA 8270D	Acetochlor	102	86.9	102	105	15.6		2.71
	Alachlor	85.3	102	106	109	17.8		2.77
	Aldrin	61.3	58.2	67.1	62.0	5.20		7.88
	Alpha-BHC	90.3	83.9	78.9	74.6	7.42		5.66
	Alpha-Chlordane	88.0	81.5	92.2	85.1	7.73		7.98
	Ametryn	102	87.3			16.0		1.83
	Atrazine	101	88.1			14.0		39.3
	Atrazine Desethyl	73.0	69.8	42.8	92.7	4.45		30.1
	Azinphos Methyl	106	91.7	97.2	112	14.4		14.1
	Beta-BHC	97.8	91.5	110	121	6.66		9.23
	Bromacil	77.0	77.0			0.0933		10.3
	Butylate	69.2	55.8	64.5	35.2	21.4		58.7
	Carbophenothion	87.7	83.0	90.1	80.9	5.49		10.8
	Chlorothalonil	73.3	37.0	79.0	66.4	65.7		17.4
	Chlorpyrifos Ethyl	99.7	84.9			16.0		2.77
	Chlorpyrifos Methyl	96.3	81.8	96.2	99.4	16.3		3.31
	Cyanazine	117	112	101	135	4.00		29.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Cypermethrin	76.7	71.7	90.0	83.8	6.73	7.11
	DDD-p,p'	99.0	91.5	101	102	7.92	1.31
	DDE-p,p'	93.0	87.0	95.5	90.6	6.58	5.28
	DDT-p,p'	92.6	87.5	100	96.6	5.71	3.49
	Delta-BHC	111	92.5	151	122	18.3	21.3
	Demeton	69.3	85.6	84.6	81.9	20.9	3.30
	Diazinon	104	87.7	114	116	16.9	0.932
	Dicofol	84.7	76.8	96.3	86.8	9.82	10.4
	Dieldrin	99.5	87.4	97.8	97.1	12.9	0.636
	Disulfoton	84.1	68.6	90.9	94.0	20.4	3.35
	Endosulfan I	94.6	84.6	92.7	89.1	11.2	3.95
	Endosulfan II	95.8	84.1	97.2	102	13.0	4.72
	Endosulfan Sulfate	91.5	79.4	93.1	96.8	14.2	3.95
	Endrin	90.7	86.6	91.4	90.1	4.62	1.42
	Endrin Aldehyde	94.5	82.2	91.7	88.1	13.9	3.97
	Endrin Ketone	91.8	79.5	97.9	97.1	14.4	0.825
	EPTC	68.0	56.2	64.1	32.3	19.0	66.1
	Ethion	103	86.7	96.9	104	17.4	6.78
	Ethoprop	87.4	74.3	93.8	91.6	16.2	2.34
	Fenamiphos	96.1	82.4	88.5	94.8	15.3	6.88
	Fipronil	96.2	85.4	75.8	97.6	12.0	25.2
	Fipronil Sulfide	92.3	79.4	65.8	90.9	15.0	32.1
	Fipronil Sulfone	84.6	71.6	42.4	74.5	16.7	54.9
	Fonofos	89.3	73.4	95.8	98.2	19.4	2.51
	Gamma-BHC	111	89.4	118	113	21.5	3.87
	Gamma-Chlordane	84.3	79.6	87.5	81.1	5.80	7.53
	Heptachlor	74.4	72.3	76.4	67.5	2.88	12.5
	Heptachlor Epoxide	90.0	83.2	92.9	86.2	7.93	7.42
	Hexazinone	104	88.8			15.6	1.92
	Malathion	105	89.2	97.9	104	16.1	6.11
	Metalaxyl	99.9	84.7	103	112	16.5	6.15
	Methoxychlor	94.7	90.9	101	105	4.12	3.65
	Metolachlor	107	89.7			17.5	1.96
	Metribuzin	97.6	96.6	134	158	1.10	16.1
	Mevinphos	87.4	70.5	88.3	90.9	21.3	2.92
	Mirex	76.8	74.0	85.6	81.8	3.66	4.56
	Molinate	75.4	60.3	69.1	52.8	22.3	26.8
	Norflurazon	93.8	82.9			12.4	34.7
	Parathion Ethyl	96.7	82.6	96.9	102	15.8	5.23
	Parathion Methyl	97.9	86.5	97.1	110	12.3	12.9
	Pendimethalin	118	98.3	138	138	18.1	0.495
	Permethrin	81.0	74.4	93.7	86.9	8.59	7.58
	Phorate	79.8	65.9	98.0	94.6	19.1	3.45
	Prometon	99.8	82.8	91.5	103	18.6	11.8
	Prometryn	101	85.5	105	112	16.9	6.54
	Simazine	102	92.3			9.51	0.708
	Terbufos	89.9	76.2	97.5	99.3	16.5	1.89
	Terbuthylazine	102	89.2	98.8	106	12.9	6.97
	Trifluralin	82.0	81.0	87.8	88.3	1.16	0.608
EPA 8276	Chlordane	93.0	100	105	110	7.53	4.67
	Toxaphene	73.9	73.8	70.5	63.8	0.129	9.97
EPA 8321B	2,4-D	126		124	153		14.7
	3-Hydroxycarbofuran	98.4		76.4	80.6		5.35
	Acetaminophen	85.6		81.1	88.4		8.52

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8321B	Aldicarb	70.3	67.7	60.5			11.2
	Aldicarb Sulfone	89.6	90.7	106			15.5
	Aldicarb Sulfoxide	88.3	90.7	93.0			2.50
	AMPA	107	78.7	78.1			0.470
	Bentazon	88.1	46.6	45.3			2.31
	Carbamazepine	115	71.8	68.5			4.61
	Carbaryl	88.3	44.7	57.3			24.6
	Carbofuran	98.5	67.3	50.9			27.7
	Diuron	90.5	60.6	47.7			21.9
	Endothall	110	71.1	62.2			13.3
	Fenuron	105	87.3	85.3			2.34
	Fluridone	105	93.2	74.2			9.41
	Glufosinate	109	105	117			11.5
	Glyphosate	121	134	146			5.33
	Hydrocodone	98.0	81.9	81.0			1.06
	Imazapyr	108	101	88.9			4.03
	Imidacloprid	98.7	134	149			6.51
	Linuron	80.2	48.6	59.1			19.4
	MCPP	126	121	119			1.76
	Methiocarb	87.3	61.0	58.7			3.83
	Methomyl	112	89.3	86.1			3.69
	Oxamyl	86.6	74.6	94.9			23.9
	Primidone	115	87.6	82.0			6.60
	Propoxur	96.3	63.7	60.9			4.50
	Pyraclostrobin	86.9	75.3	75.1			0.342
	Sucralose	106	60.6	73.9			19.7
	Triclopyr	133	121	121			0.157
SM 2120 B	Color (true)	99.6				0.0298	
SM 2320 B-97	Total Alkalinity	104				0.661	
	Total Alkalinity	103				1.34	
SM 2540 C-97	TDS					7.23	
SM 2540 D-97	TSS					3.08	
SM 4500 F-C-97	Fluoride	97.6	96.9	97.7			0.520
	Fluoride	98.7	96.0	95.4			0.476
SM 5310 B-00	Organic Carbon	93.9	94.0	92.8			0.911
	Organic Carbon	93.9	96.0	95.3			0.565

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2011572, 2011575, 2011578
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2011597, 2011598
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2011597, 2011598
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2011572, 2011578
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2011572, 2011578
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2011573, 2011576, 2011579
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2011573, 2011576, 2011579

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2011573, 2011576, 2011579
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2011573, 2011576, 2011579
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2011574, 2011577, 2011580
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	2011589
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	2011590
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2011589
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	2011587
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2011588
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	2011588
SM 2120 B / E31780	True Color measured at 450 nm	2011572, 2011578
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2011572, 2011575, 2011578
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2011572, 2011578
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2011572, 2011575, 2011578
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2011572, 2011575, 2011578
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2011573, 2011576, 2011579

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	07/27/2018			07/27/2018 16:39	Tanya Welborn	2011572, 2011575, 2011578
EPA 200.7 Rev. 4.4	07/27/2018	07/31/2018 17:45	Elliott D. Healy	08/01/2018 16:04	Betina Topolski	2011598
	07/27/2018	08/01/2018 15:30	Elliott D. Healy	08/02/2018 17:42	Betina Topolski	2011597
EPA 200.8 Rev. 5.4	07/27/2018	07/31/2018 17:45	Elliott D. Healy	08/03/2018 19:24	Allison Taylor	2011598
	07/27/2018	08/01/2018 15:30	Elliott D. Healy	08/06/2018 16:26	Robert K Palmer	2011597
	07/27/2018	08/01/2018 15:30	Elliott D. Healy	08/06/2018 21:12	Robert K Palmer	2011597
EPA 300.0 Rev. 2.1	07/27/2018			08/02/2018 20:18	Lipi Saha	2011572
	07/27/2018			08/02/2018 20:30	Lipi Saha	2011578
EPA 350.1 Rev. 2.0	07/27/2018			08/01/2018 11:31	Ping Hua	2011576
	07/27/2018			08/02/2018 11:36	Ping Hua	2011573
	07/27/2018			08/02/2018 11:42	Ping Hua	2011579
EPA 351.2 Rev. 2.0	07/27/2018	07/31/2018 11:15	Adrian Shelby	08/02/2018 13:18	Joseph Suarez	2011573
	07/27/2018	07/31/2018 11:15	Adrian Shelby	08/02/2018 13:20	Joseph Suarez	2011579
	07/27/2018	07/31/2018 11:15	Adrian Shelby	08/02/2018 13:38	Joseph Suarez	2011576
EPA 353.2 Rev. 2.0	07/27/2018			07/30/2018 13:32	Lauren Bottorf	2011573
	07/27/2018			07/30/2018 13:34	Lauren Bottorf	2011579
	07/27/2018			07/31/2018 11:49	Lauren Bottorf	2011576
EPA 365.1 Rev. 2.0	07/27/2018	08/01/2018 12:35	Sima Feizi	08/02/2018 09:34	Beverly Y. Sanders	2011573
	07/27/2018	08/01/2018 12:35	Sima Feizi	08/02/2018 10:11	Beverly Y. Sanders	2011576
	07/27/2018	08/01/2018 12:35	Sima Feizi	08/02/2018 11:58	Beverly Y. Sanders	2011579
EPA 365.1 Rev. 2.0 dissolved	07/27/2018			07/27/2018 13:38	Julia Storbeck	2011574
	07/27/2018			07/27/2018 13:39	Julia Storbeck	2011580
	07/27/2018			07/27/2018 13:45	Julia Storbeck	2011577
EPA 8270D	07/27/2018	07/30/2018 09:39	Dinesh Mishra	08/03/2018 17:18	Vandana T. Nagar	2011590
	07/27/2018	07/30/2018 09:39	Dinesh Mishra	08/07/2018 14:40	Vandana T. Nagar	2011590
	07/27/2018	07/31/2018 09:00	Fe-Val Siddell	08/07/2018 20:41	Dinesh Mishra	2011589
EPA 8276	07/27/2018	07/31/2018 09:00	Fe-Val Siddell	08/09/2018 08:32	Arthur Maknenko	2011589
EPA 8321B	07/27/2018	07/27/2018 14:50	Hoor Shaik	07/29/2018 11:39	Mohammad Ghaffari	2011588
	07/27/2018	07/27/2018 14:50	Hoor Shaik	07/30/2018 13:43	Mohammad Ghaffari	2011588
	07/27/2018	07/27/2018 14:50	Hoor Shaik	08/01/2018 05:22	Mohammad Ghaffari	2011588
	07/27/2018	08/02/2018 09:00	Hoor Shaik	08/09/2018 23:21	Juyoung Kim	2011587
	07/27/2018	08/02/2018 09:00	Hoor Shaik	08/10/2018 02:48	Juyoung Kim	2011588
	07/27/2018	08/02/2018 09:00	Hoor Shaik	08/10/2018 19:20	Juyoung Kim	2011588
SM 2120 B	07/27/2018			07/27/2018 14:15	Tanya Welborn	2011572
	07/27/2018			07/27/2018 14:16	Tanya Welborn	2011578
SM 2320 B-97	07/27/2018			08/01/2018 03:33	Dale L. Simmons	2011572
	07/27/2018			08/01/2018 03:45	Dale L. Simmons	2011578
	07/27/2018			08/01/2018 07:20	Dale L. Simmons	2011575
SM 2540 C-97	07/27/2018			07/28/2018 20:08	Yijie Li	2011572, 2011578
SM 2540 D-97	07/27/2018			07/28/2018 23:02	Yijie Li	2011572, 2011575, 2011578

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 4500 F-C-97	07/27/2018			08/01/2018 03:33	Dale L. Simmons	2011572
	07/27/2018			08/01/2018 03:45	Dale L. Simmons	2011578
	07/27/2018			08/03/2018 11:00	Dale L. Simmons	2011575
SM 5310 B-00	07/27/2018			07/31/2018 05:46	Megan Treadwell	2011576
	07/27/2018			08/03/2018 23:38	Julia Storbeck	2011573
	07/27/2018			08/03/2018 23:51	Julia Storbeck	2011579