

Chemical Analysis Report

NW-DIST-2020-02-06-01

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

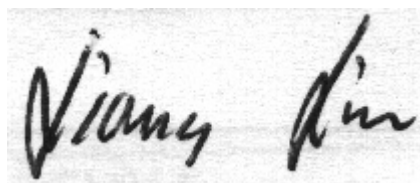
Event Description: **Navarre Run**
Request ID: **RQ-2020-02-03-65**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
160 Government Center
Suite 208
Pensacola, FL 32502-5794
Attn: Cheryl Bunch

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 28-FEB-2020 14:53

A handwritten signature in black ink, appearing to read "Liang Lin", 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: 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: Discharge from Tiger Point Golf Course at
Maplewood Drive**

Collection Date/Time: 02/05/2020 09:55

Field ID: G4NW0211

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2155120	EPA 180.1 Rev. 2.0	Turbidity	3.6		NTU	P378458	
		Bromide	0.066		mg Br/L	P378844	
		Chloride	18		mg Cl/L	P379490	
		Sulfate	7.8		mg SO4/L	P379493	
	SM 2120 B-2011	Color (true)	110		PCU	P378462	
	SM 2320 B-2011	Total Alkalinity	29		mg CaCO3/L	P378558	
	SM 2540 C-2011	TDS	83		mg/L	P379348	
	SM 2540 D-2011	TSS	6	I	mg/L	P379039	
	SM 4500 F-C-2011	Fluoride	0.039	I	mg F/L	P378834	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.39		mg N/L	P379055	
2155121	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P378758	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.072		mg N/L	P379425	
	EPA 365.1 Rev. 2.0	Total-P	0.18		mg P/L	P378817	
	SM 5310 B-2011	Organic Carbon	14		mg C/L	P378683	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.12		mg P/L	P378444	
2155122	EPA 8321B	2,4-D	0.0048	I	ug/L	P378426	
2155147		Acesulfame K**	0.10	U	ug/L	P378544	MS
		AMPA**	1.0		ug/L	P378544	
		Sucralose**	3.8		ug/L	P378544	
		Acetaminophen**	0.0080	U	ug/L	P378426	
		Acetamiprid**	0.0020	U	ug/L	P378426	
		Endothall**	0.25	U	ug/L	P378544	
		Glufosinate**	0.10	U	ug/L	P378544	
		Glyphosate**	3.4		ug/L	P378544	
		Afidopyropen**	0.0020	UJ	ug/L	P378426	
		Bentazon	0.0077		ug/L	P378426	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P378426	
		Carbamazepine**	0.0066		ug/L	P378426	
		Clothianidin**	0.0020	U	ug/L	P378426	
		Dinotefuran**	0.0027	I	ug/L	P378426	
		Diuron	0.0020	U	ug/L	P378426	
		Fenuron	0.016	U	ug/L	P378426	
		Fluridone**	8.0E-04	U	ug/L	P378426	
		Imazapyr**	0.0082	I	ug/L	P378426	
		Hydrocodone**	0.0020	U	ug/L	P378426	
		Ibuprofen**	0.020	U	ug/L	P378426	
		Imidacloprid	0.0076	I	ug/L	P378426	
		Linuron	0.0040	U	ug/L	P378426	
		Mandestrobin**	0.0020	UJ	ug/L	P378426	
		MCP	0.015		ug/L	P378426	
		Naproxen**	0.0080	U	ug/L	P378426	RPD
		Primidone**	0.029		ug/L	P378426	

Field ID: G4NW0211

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2155147	EPA 8321B	Pyraclostrobin**	0.0020	U	ug/L	P378426	
		Thiamethoxam**	0.0020	U	ug/L	P378426	
		Tolfenpyrad**	0.0020	U	ug/L	P378426	
		Triclopyr**	0.0040	U	ug/L	P378426	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 8321B: J - second source check standards for some analytes were not available for analysis. MS accuracy for bentazon could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: Tom King Creek

Collection Date/Time: 02/05/2020 10:33

Field ID: G4NW0193

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2155114	EPA 180.1 Rev. 2.0	Turbidity	5.4		NTU	P378458	
	EPA 300.0 Rev. 2.1	Chloride	21		mg Cl/L	P379490	
		Sulfate	7.8		mg SO4/L	P379493	
	SM 2120 B-2011	Color (true)	72		PCU	P378462	
	SM 2320 B-2011	Total Alkalinity	5.8		mg CaCO3/L	P378558	
	SM 2540 C-2011	TDS	69		mg/L	P379348	
	SM 2540 D-2011	TSS	3	I	mg/L	P379039	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P378834	
2155115	EPA 350.1 Rev. 2.0	Ammonia-N	0.030		mg N/L	P379055	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.27		mg N/L	P378758	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.49		mg N/L	P379425	
	EPA 365.1 Rev. 2.0	Total-P	0.016		mg P/L	P378817	
	SM 5310 B-2011	Organic Carbon	8.1		mg C/L	P378683	
2155116	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.007	I	mg P/L	P378444	
2155145	EPA 8321B	Aldicarb	0.020	U	ug/L	P378510	RPD
		Aldicarb Sulfone	0.0020	U	ug/L	P378510	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P378510	
		Carbaryl	0.0020	U	ug/L	P378510	
		Carbofuran	0.0020	U	ug/L	P378510	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P378510	
		Methiocarb	0.0020	U	ug/L	P378510	
		Methomyl	0.0020	U	ug/L	P378510	
		Oxamyl	0.0020	U	ug/L	P378510	
		Propoxur	0.0020	U	ug/L	P378510	MS
2155146		2,4-D	0.0020	U	ug/L	P378426	
		Acesulfame K**	0.11	I	ug/L	P378544	MS
		AMPA**	0.10	U	ug/L	P378544	
		Sucralose**	1.2		ug/L	P378544	
		Acetaminophen**	0.0080	U	ug/L	P378426	
		Acetamiprid**	0.0020	U	ug/L	P378426	
		Endothall**	0.25	U	ug/L	P378544	
		Glufosinate**	0.10	U	ug/L	P378544	
		Glyphosate**	0.10	U	ug/L	P378544	
		Afidopyropen**	0.0020	UJ	ug/L	P378426	
		Bentazon	0.0023	I	ug/L	P378426	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P378426	
		Carbamazepine**	0.0012	I	ug/L	P378426	
		Clothianidin**	0.028		ug/L	P378426	
		Dinotefuran**	0.0020	U	ug/L	P378426	
		Diuron	0.0020	U	ug/L	P378426	
		Fenuron	0.016	U	ug/L	P378426	
		Fluridone**	8.0E-04	U	ug/L	P378426	
		Imazapyr**	0.0048	I	ug/L	P378426	

Field ID: G4NW0193

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2155146	EPA 8321B	Hydrocodone**	0.0020	U	ug/L	P378426	
		Ibuprofen**	0.020	U	ug/L	P378426	
		Imidacloprid	0.050		ug/L	P378426	
		Linuron	0.0040	U	ug/L	P378426	
		Mandestrobin**	0.0020	UJ	ug/L	P378426	
		MCP	0.0034	I	ug/L	P378426	
		Naproxen**	0.0080	U	ug/L	P378426	RPD
		Primidone**	0.011	I	ug/L	P378426	
		Pyraclostrobin**	0.0020	U	ug/L	P378426	
		Thiamethoxam**	0.0020	U	ug/L	P378426	
		Tolfenpyrad**	0.0020	U	ug/L	P378426	
		Triclopyr**	0.0040	U	ug/L	P378426	
2155153	EPA 8270E	Aldrin	4.5	U	ng/L	P378791	
		Alpha-BHC	2.3	U	ng/L	P378791	
		Alpha-Chlordane	1.1	U	ng/L	P378791	
		Beta-BHC	11	U	ng/L	P378791	
		Bifenthrin**	4.5	U	ng/L	P378791	
		Delta-BHC	9.0	U	ng/L	P378791	
		Gamma-BHC	9.0	U	ng/L	P378791	
		Carbophenothion	11	U	ng/L	P378791	
		Chlorothalonil	2.3	U	ng/L	P378791	
		Cis-Nonachlor**	1.1	U	ng/L	P378791	
		Cypermethrin	23	U	ng/L	P378791	
		DDD-p,p'	6.8	U	ng/L	P378791	
		DDE-p,p'	6.8	U	ng/L	P378791	
		DDT-p,p'	7.9	U	ng/L	P378791	
		Dicofol	34	U	ng/L	P378791	MS
		Dieldrin	4.5	U	ng/L	P378791	
		Endosulfan I	4.5	U	ng/L	P378791	
		Endosulfan II	4.5	U	ng/L	P378791	
		Endosulfan Sulfate	2.3	U	ng/L	P378791	
		Endrin	2.3	U	ng/L	P378791	
		Endrin Aldehyde	2.3	U	ng/L	P378791	
		Endrin Ketone	2.3	U	ng/L	P378791	
		Ethalfuralin**	3.4	U	ng/L	P378791	
		Gamma-Chlordane	1.1	U	ng/L	P378791	
		Heptachlor	1.7	U	ng/L	P378791	
		Heptachlor Epoxide	2.3	U	ng/L	P378791	
		Hexachlorobenzene	2.3	U	ng/L	P378791	
		Methoxychlor	4.5	U	ng/L	P378791	
		Mirex	2.3	U	ng/L	P378791	
		Permethrin	11	U	ng/L	P378791	
		Trans-Nonachlor**	1.1	U	ng/L	P378791	
		Trifluralin	2.8	U	ng/L	P378791	
		Chlordane	5.6	U	ng/L	P378791	

Field ID: G4NW0193

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2155153	EPA 8276	Toxaphene	34	U	ng/L	P378791	
2155154	EPA 8270E	Acetochlor	0.28	U	ng/L	P378502	
		Alachlor	0.28	U	ng/L	P378502	
		Ametryn	0.67	U	ng/L	P378502	
		Atrazine	2.6	J	ng/L	P378502	MS
		Atrazine Desethyl	4.7	I	ng/L	P378502	
		Azinphos Methyl	2.2	U	ng/L	P378502	
		Bromacil	0.56	U	ng/L	P378502	
		Butylate	0.45	U	ng/L	P378502	
		Carbophenothion	0.56	U	ng/L	P378502	
		Chlorpyrifos Ethyl	0.28	U	ng/L	P378502	
		Chlorpyrifos Methyl	0.056	U	ng/L	P378502	
		Cyanazine	3.6	U	ng/L	P378502	
		Demeton	1.7	U	ng/L	P378502	
		Diazinon	0.14	U	ng/L	P378502	
		Dimethenamid**	0.11	U	ng/L	P378502	
		Disulfoton	0.56	U	ng/L	P378502	
		Dithiopyr**	0.11	I	ng/L	P378502	
		EPTC	1.4	U	ng/L	P378502	
		Ethion	0.17	U	ng/L	P378502	
		Ethoprop	0.11	U	ng/L	P378502	
		Fenamiphos	0.56	U	ng/L	P378502	
		Fipronil	9.2		ng/L	P378502	
		Fipronil Desulfinyl**	0.14	UJ	ng/L	P378502	MS
		Fipronil Sulfide	2.0	J	ng/L	P378502	MS
		Fipronil Sulfone	8.3		ng/L	P378502	
		Flumioxazin**	2.0	UJ	ng/L	P378502	MS
		Fonofos	0.22	U	ng/L	P378502	
		Hexazinone	0.56	U	ng/L	P378502	
		Imazalil**	0.84	U	ng/L	P378502	
		Malathion	0.39	U	ng/L	P378502	
		Metalaxyl	0.84	UJ	ng/L	P378502	MS, RPD
		Metolachlor	0.56	U	ng/L	P378502	
		Metribuzin	3.6	U	ng/L	P378502	
		Mevinphos	0.56	U	ng/L	P378502	
		Molinate	0.34	UJ	ng/L	P378502	MS
		Norflurazon	0.56	U	ng/L	P378502	
		Oxadiazon**	0.11	U	ng/L	P378502	
		Parathion Ethyl	0.28	U	ng/L	P378502	
		Parathion Methyl	0.62	U	ng/L	P378502	
		Pendimethalin	1.1	U	ng/L	P378502	
		Phorate	0.28	U	ng/L	P378502	
		Prodiamine**	0.20	UJ	ng/L	P378502	RPD
		Prometon	1.0	U	ng/L	P378502	
		Prometryn	0.22	U	ng/L	P378502	

Field ID: G4NW0193

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2155154	EPA 8270E	Pronamide**	0.17	U	ng/L	P378502	
		Propiconazole**	0.56	U	ng/L	P378502	
		Simazine	1.2	I	ng/L	P378502	
		Sulfentrazone**	5.1	J	ng/L	P378502	RPD
		Tebuconazole**	0.56	U	ng/L	P378502	
		Terbufos	0.11	U	ng/L	P378502	
		Terbuthylazine	0.48	U	ng/L	P378502	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 8321B: J - second source check standards for some analytes were not available for analysis. MS accuracy for bentazon could not be assessed due to high concentration of parameter in the spiked sample.

EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Williams Creek below Frankfort Avenue

Collection Date/Time: 02/05/2020 12:13

Field ID: G4NW0198

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2155117	EPA 180.1 Rev. 2.0	Turbidity	3.5		NTU	P378458	
	EPA 300.0 Rev. 2.1	Chloride	17		mg Cl/L	P379490	
		Sulfate	5.9		mg SO4/L	P379493	
	SM 2120 B-2011	Color (true)	110		PCU	P378462	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P378558	
	SM 2540 C-2011	TDS	58		mg/L	P379348	
	SM 2540 D-2011	TSS	2	I	mg/L	P379039	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P378834	
2155118	EPA 350.1 Rev. 2.0	Ammonia-N	0.033		mg N/L	P379055	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.35		mg N/L	P378758	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.076		mg N/L	P379425	
	EPA 365.1 Rev. 2.0	Total-P	0.062		mg P/L	P378817	
	SM 5310 B-2011	Organic Carbon	14		mg C/L	P378683	
2155119	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.047		mg P/L	P378444	

Ref. Method and Comment:

SM 2540 D-2011: 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: P378458

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P378844

Component	Result	Code	Units
Bromide	0.013	U	mg Br/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P379490

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P379493

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P379055

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P378758

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P379425

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P378817

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P378444

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
Batch ID: P378502

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Carbophenothion	0.50	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Cyanazine	3.2	U	ng/L
Demeton	1.5	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
Flumioxazin	1.8	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.50	U	ng/L
Metribuzin	3.2	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
Pronamide	0.15	U	ng/L
Propiconazole	0.50	U	ng/L
Simazine	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P378791

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
Bifenthrin	4.0	U	ng/L
Carbophenothion	10	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cis-Nonachlor	1.0	U	ng/L
Cypermethrin	20	U	ng/L
DDD-p,p'	6.0	U	ng/L
DDE-p,p'	6.0	U	ng/L
DDT-p,p'	7.0	U	ng/L
Delta-BHC	8.0	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
Ethalfuralin	3.0	U	ng/L
Gamma-BHC	8.0	U	ng/L
Gamma-Chlordane	1.0	U	ng/L
Heptachlor	1.5	U	ng/L
Heptachlor Epoxide	2.0	U	ng/L
Hexachlorobenzene	2.0	U	ng/L
Methoxychlor	4.0	U	ng/L
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Trans-Nonachlor	1.0	U	ng/L
Trifluralin	2.5	U	ng/L

Reference Method: EPA 8276
Batch ID: P378791

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

Reference Method: EPA 8321B
Batch ID: P378426

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyrophen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P378426

Component	Result	Code	Units
Dinotefuran	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
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B

Batch ID: P378510

Component	Result	Code	Units
3-Hydroxycarbofuran	0.0020	U	ug/L
Aldicarb	0.020	U	ug/L
Aldicarb Sulfone	0.0020	U	ug/L
Aldicarb Sulfoxide	0.0020	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Oxamyl	0.0020	U	ug/L
Propoxur	0.0020	U	ug/L

Reference Method: EPA 8321B

Batch ID: P378544

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: SM 2120 B-2011

Batch ID: P378462

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P378558

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-2011
Batch ID: P379348

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P379039

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P378834

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P378683

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: P378844

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P379490

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P379493

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P379055

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P378758

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P379425

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO ₂ NO ₃ -N	100		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P378817

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P378444

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

Reference Method: EPA 8270E
Batch ID: P378502

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	93.2	92.0	P/P	71 - 122
Alachlor	98.5	93.3	P/P	70 - 121
Ametryn	103	96.2	P/P	49 - 137
Atrazine	95.7	93.1	P/P	76 - 125

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P378502

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Atrazine Desethyl	91.8	81.7	P/P	31 - 144
Azinphos Methyl	121	115	P/P	67 - 150
Bromacil	88.3	93.9	P/P	36 - 121
Butylate	70.1	73.3	P/P	33 - 88.0
Carbophenothion	88.1	91.1	P/P	50 - 150
Chlorpyrifos Ethyl	96.3	98.9	P/P	73 - 117
Chlorpyrifos Methyl	94.7	93.1	P/P	68 - 121
Cyanazine	116	105	P/P	20 - 250
Demeton	75.0	83.1	P/P	30 - 123
Diazinon	96.0	92.4	P/P	70 - 128
Dimethenamid	94.1	93.7	P/P	66 - 122
Disulfoton	72.9	89.4	P/P	46 - 124
Dithiopyr	88.7	88.7	P/P	69 - 122
EPTC	49.8	41.1	P/P	31 - 90.0
Ethion	87.9	87.2	P/P	45 - 135
Ethoprop	82.5	79.8	P/P	59 - 118
Fenamiphos	98.2	103	P/P	30 - 136
Fipronil	108	109	P/P	57 - 127
Fipronil Desulfinyl	92.2	96.4	P/P	51 - 122
Fipronil Sulfide	90.1	95.9	P/P	57 - 119
Fipronil Sulfone	86.9	93.8	P/P	51 - 119
Flumioxazin	116	127	P/P	70 - 200
Fonofos	83.3	86.4	P/P	60 - 120
Hexazinone	88.1	93.0	P/P	57 - 142
Imazalil	82.7	94.6	P/P	50 - 150
Malathion	97.2	82.0	P/P	67 - 128
Metaxyl	89.0	91.7	P/P	21 - 148
Metolachlor	96.3	83.5	P/P	70 - 120
Metribuzin	173	156	P/P	20 - 253
Mevinphos	79.9	79.1	P/P	47 - 116
Molinate	61.6	58.1	P/P	41 - 99.0
Norflurazon	93.3	96.7	P/P	54 - 127
Oxadiazon	81.1	80.0	P/P	65 - 122
Parathion Ethyl	85.2	91.3	P/P	71 - 113
Parathion Methyl	92.8	92.5	P/P	73 - 129
Pendimethalin	87.5	82.9	P/P	63 - 130
Phorate	83.5	87.3	P/P	48 - 118
Prodiamine	55.4	85.6	P/P	20 - 144
Prometon	90.9	92.4	P/P	53 - 120
Prometryn	106	98.9	P/P	63 - 119
Pronamide	91.3	96.8	P/P	50 - 150
Propiconazole	101	103	P/P	50 - 150
Simazine	99.6	99.1	P/P	77 - 129
Sulfentrazone	86.2	78.3	P/P	50 - 150
Tebuconazole	69.7	83.4	P/P	20 - 118
Terbufos	83.3	89.8	P/P	61 - 119
Terbutylazine	87.8	93.6	P/P	75 - 119

Reference Method: EPA 8270E
Batch ID: P378791

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

Reference Method: EPA 8270E
Batch ID: P378791

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	64.4	60.9	P/P	20 - 87.0
Alpha-BHC	98.2	101	P/P	65 - 142
Alpha-Chlordane	93.9	94.1	P/P	58 - 106
Beta-BHC	115	113	P/P	65 - 179
Bifenthrin	90.8	95.3	P/P	38 - 128
Carbophenothion	59.2	63.6	P/P	20 - 144
Chlorothalonil	96.4	71.8	P/P	20 - 214
Cis-Nonachlor	94.7	94.2	P/P	56 - 113
Cypermethrin	99.0	101	P/P	37 - 130
DDD-p,p'	102	104	P/P	66 - 119
DDE-p,p'	90.6	91.1	P/P	53 - 108
DDT-p,p'	86.6	86.0	P/P	57 - 133
Delta-BHC	131	124	P/P	68 - 187
Dicofol	95.8	92.2	P/P	66 - 123
Dieldrin	101	102	P/P	65 - 111
Endosulfan I	111	106	P/P	65 - 115
Endosulfan II	115	109	P/P	68 - 133
Endosulfan Sulfate	100	102	P/P	62 - 127
Endrin	101	101	P/P	64 - 122
Endrin Aldehyde	102	99.2	P/P	61 - 132
Endrin Ketone	100	103	P/P	66 - 120
Ethalfuralin	91.2	88.7	P/P	57 - 127
Gamma-BHC	116	113	P/P	71 - 158
Gamma-Chlordane	91.4	91.9	P/P	53 - 106
Heptachlor	88.4	89.0	P/P	45 - 96.0
Heptachlor Epoxide	98.7	97.8	P/P	64 - 109
Hexachlorobenzene	89.8	88.0	P/P	46 - 103
Methoxychlor	97.7	98.2	P/P	69 - 149
Mirex	78.0	78.1	P/P	31 - 90.0
Permethrin	90.8	91.3	P/P	41 - 108
Trans-Nonachlor	88.8	89.8	P/P	50 - 107
Trifluralin	91.4	91.1	P/P	58 - 119

Reference Method: EPA 8276
Batch ID: P378791

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	77.0	75.9	P/P	47 - 119
Toxaphene	83.1	85.4	P/P	41 - 112

Reference Method: EPA 8321B
Batch ID: P378426

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	122		P	30 - 160
Acetaminophen	76.7		P	30 - 160
Acetamiprid	88.1		P	30 - 160
Afidopyropen	82.6		P	30 - 160
Bentazon	65.9		P	30 - 160
Benzovindiflupyr	77.4		P	30 - 160
Carbamazepine	77.8		P	30 - 160
Clothianidin	81.8		P	30 - 160

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
 Batch ID: P378426

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dinotefuran	87.3		P	30 - 160
Diuron	88.5		P	30 - 160
Fenuron	98.0		P	30 - 160
Fluridone	83.9		P	30 - 160
Hydrocodone	92.2		P	30 - 160
Ibuprofen	76.6		P	30 - 160
Imazapyr	96.6		P	30 - 160
Imidacloprid	95.0		P	30 - 160
Linuron	69.6		P	30 - 160
Mandestrobin	92.4		P	30 - 160
MCPP	126		P	30 - 160
Naproxen	90.4		P	30 - 160
Primidone	90.0		P	30 - 160
Pyraclostrobin	96.1		P	30 - 160
Thiamethoxam	95.6		P	30 - 160
Tolfenpyrad	50.1		P	30 - 160
Triclopyr	104		P	30 - 160

Reference Method: EPA 8321B
 Batch ID: P378510

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	81.4		P	30 - 160
Aldicarb	108		P	30 - 160
Aldicarb Sulfone	91.6		P	30 - 160
Aldicarb Sulfoxide	98.2		P	30 - 160
Carbaryl	74.3		P	30 - 160
Carbofuran	84.3		P	30 - 160
Methiocarb	62.7		P	30 - 160
Methomyl	66.6		P	30 - 160
Oxamyl	87.5		P	30 - 160
Propoxur	61.2		P	30 - 160

Reference Method: EPA 8321B
 Batch ID: P378544

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	87.8		P	40 - 150
AMPA	88.7		P	40 - 150
Endothall	96.9		P	40 - 150
Glufosinate	137		P	40 - 150
Glyphosate	115		P	40 - 140
Sucralose	99.1		P	40 - 150

Reference Method: SM 2120 B-2011
 Batch ID: P378462

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.6		P	85 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P378558

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	98 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P378834

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.2		P	92 - 103

Reference Method: SM 5310 B-2011
Batch ID: P378683

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P378844

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2154804	Bromide	101		P	90 - 110
2155120	Bromide	100	99.7	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P379490

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2155010	Chloride	98.6		P	90 - 110
2155345	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P379493

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2155010	Sulfate	98.0		P	90 - 110
2155345	Sulfate	99.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P379055

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2155011	Ammonia-N	100	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P378758

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2155121	Kjeldahl Nitrogen	102	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P379425

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2155214	NO2NO3-N	100	99.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P378817

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2155058	Total-P	105	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P378444

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2155031	O-Phosphate-P	95.4	95.9	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P378502

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2155154	Acetochlor	93.0	118	P/P	68 - 126

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P378502

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2155154	Alachlor	88.1	116	P/P	66 - 125
2155154	Ametryn	93.7	121	P/P	31 - 182
2155154	Atrazine	101	142	P/F	68 - 137
2155154	Atrazine Desethyl	77.1	99.0	P/P	13 - 161
2155154	Azinphos Methyl	86.8	101	P/P	54 - 162
2155154	Bromacil	75.8	74.8	P/P	34 - 144
2155154	Butylate	17.3	18.7	P/P	16 - 92.0
2155154	Carbophenothion	86.8	109	P/P	50 - 150
2155154	Chlorpyrifos Ethyl	89.7	114	P/P	63 - 124
2155154	Chlorpyrifos Methyl	78.7	98.6	P/P	64 - 125
2155154	Cyanazine	97.7	124	P/P	13 - 245
2155154	Demeton	63.5	74.5	P/P	20 - 154
2155154	Diazinon	91.5	119	P/P	66 - 141
2155154	Dimethenamid	95.2	120	P/P	50 - 130
2155154	Disulfoton	69.9	85.9	P/P	55 - 130
2155154	Dithiopyr	92.0	121	P/P	66 - 122
2155154	EPTC	18.5	16.4	P/P	15 - 93.0
2155154	Ethion	95.2	120	P/P	15 - 148
2155154	Ethoprop	72.9	92.1	P/P	59 - 126
2155154	Fenamiphos	64.1	56.0	P/P	39 - 137
2155154	Fipronil Desulfinyl	99.8	131	P/F	43 - 121
2155154	Fipronil Sulfide	96.5	144	P/F	29 - 134
2155154	Flumioxazin	167	214	P/F	70 - 200
2155154	Fonofos	67.2	82.5	P/P	62 - 128
2155154	Hexazinone	99.3	133	P/P	58 - 154
2155154	Imazalil	105	101	P/P	50 - 150
2155154	Malathion	100	78.5	P/P	54 - 135
2155154	Metalaxyl	91.5	138	P/F	46 - 136
2155154	Metolachlor	93.3	119	P/P	62 - 126
2155154	Metribuzin	92.4	123	P/P	44 - 277
2155154	Mevinphos	61.2	69.2	P/P	44 - 135
2155154	Molinate	30.8	32.0	F/P	31 - 104
2155154	Norflurazon	89.6	111	P/P	32 - 134
2155154	Oxadiazon	90.2	116	P/P	55 - 123
2155154	Parathion Ethyl	89.6	118	P/P	67 - 120
2155154	Parathion Methyl	93.6	120	P/P	70 - 140
2155154	Pendimethalin	84.9	114	P/P	59 - 145
2155154	Phorate	74.1	91.9	P/P	52 - 127
2155154	Prodiamine	107	134	P/P	11 - 157
2155154	Prometon	91.6	121	P/P	55 - 130
2155154	Prometryn	94.3	119	P/P	55 - 127
2155154	Pronamide	99.5	133	P/P	50 - 150
2155154	Propiconazole	86.6	111	P/P	50 - 150
2155154	Simazine	96.2	134	P/P	58 - 159
2155154	Sulfentrazone	83.5	135	P/P	50 - 150
2155154	Tebuconazole	62.4	81.7	P/P	10 - 122
2155154	Terbufos	75.9	92.1	P/P	65 - 131
2155154	Terbutylazine	95.9	122	P/P	63 - 131

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P378791

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2154581	Aldrin	78.4	78.5	P/P	32 - 82.0
2154581	Alpha-BHC	94.4	94.0	P/P	68 - 157
2154581	Alpha-Chlordane	87.1	87.0	P/P	54 - 108
2154581	Beta-BHC	109	106	P/P	54 - 200
2154581	Bifenthrin	111	114	P/P	49 - 124
2154581	Carbophenothion	111	112	P/P	42 - 173
2154581	Chlorothalonil	175	152	P/P	10 - 289
2154581	Cis-Nonachlor	88.7	87.8	P/P	53 - 112
2154581	Cypermethrin	117	118	P/P	43 - 141
2154581	DDD-p,p'	93.3	94.0	P/P	58 - 125
2154581	DDE-p,p'	88.2	88.5	P/P	50 - 108
2154581	DDT-p,p'	83.5	82.8	P/P	52 - 140
2154581	Delta-BHC	190	172	P/P	61 - 228
2154581	Dicofol	43.8	42.4	F/F	59 - 130
2154581	Dieldrin	91.4	92.8	P/P	57 - 121
2154581	Endosulfan I	107	113	P/P	62 - 123
2154581	Endosulfan II	106	102	P/P	48 - 163
2154581	Endosulfan Sulfate	106	104	P/P	63 - 132
2154581	Endrin	91.5	89.6	P/P	58 - 128
2154581	Endrin Aldehyde	97.0	97.0	P/P	44 - 126
2154581	Endrin Ketone	109	106	P/P	68 - 127
2154581	Ethalfuralin	85.7	85.7	P/P	55 - 131
2154581	Gamma-BHC	110	112	P/P	54 - 206
2154581	Gamma-Chlordane	86.1	86.3	P/P	52 - 105
2154581	Heptachlor	81.4	79.7	P/P	47 - 94.0
2154581	Heptachlor Epoxide	89.6	88.7	P/P	61 - 113
2154581	Hexachlorobenzene	74.9	76.6	P/P	45 - 100
2154581	Methoxychlor	103	103	P/P	63 - 153
2154581	Mirex	79.9	81.8	P/P	38 - 90.0
2154581	Permethrin	97.1	98.7	P/P	45 - 112
2154581	Trans-Nonachlor	81.2	81.6	P/P	50 - 103
2154581	Trifluralin	82.7	84.2	P/P	57 - 122

Reference Method: EPA 8276
Batch ID: P378791

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2154874	Chlordane	94.6	94.1	P/P	34 - 129
2154874	Toxaphene	99.3	94.3	P/P	26 - 123

Reference Method: EPA 8321B
Batch ID: P378426

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2154702	2,4-D	108	116	P/P	30 - 160
2154702	Acetaminophen	88.6	92.7	P/P	30 - 160
2154702	Acetamiprid	91.4	84.7	P/P	30 - 160
2154702	Afidopyropen	92.6	96.1	P/P	30 - 160
2154702	Benzovindiflupyr	77.4	78.8	P/P	30 - 160
2154702	Carbamazepine	75.4	80.6	P/P	30 - 160
2154702	Clothianidin	87.3	93.8	P/P	30 - 160
2154702	Dinotefuran	113	122	P/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P378426

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2154702	Diuron	75.0	64.9	P/P	30 - 160
2154702	Fenuron	79.4	74.8	P/P	30 - 160
2154702	Fluridone	89.6	84.5	P/P	30 - 160
2154702	Hydrocodone	101	90.1	P/P	30 - 160
2154702	Ibuprofen	71.4	67.7	P/P	30 - 160
2154702	Imazapyr	75.0	88.9	P/P	30 - 160
2154702	Imidacloprid	151	149	P/P	30 - 160
2154702	Linuron	65.1	63.0	P/P	30 - 160
2154702	Mandestrobin	90.4	92.1	P/P	30 - 160
2154702	MCP	112	117	P/P	30 - 160
2154702	Naproxen	118	71.2	P/P	30 - 160
2154702	Primidone	90.3	88.0	P/P	30 - 160
2154702	Pyraclostrobin	89.3	91.9	P/P	30 - 160
2154702	Thiamethoxam	118	129	P/P	30 - 160
2154702	Tolfenpyrad	49.7	45.2	P/P	30 - 160
2154702	Triclopyr	104	102	P/P	30 - 160

Reference Method: EPA 8321B
Batch ID: P378510

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2154577	3-Hydroxycarbofuran	61.6	79.4	P/P	30 - 160
2154577	Aldicarb	75.7	50.4	P/P	30 - 160
2154577	Aldicarb Sulfone	83.9	91.5	P/P	30 - 160
2154577	Aldicarb Sulfoxide	48.1	37.4	P/P	30 - 160
2154577	Carbaryl	54.9	55.5	P/P	30 - 160
2154577	Carbofuran	62.4	64.0	P/P	30 - 160
2154577	Methiocarb	62.4	57.4	P/P	30 - 160
2154577	Methomyl	54.7	63.7	P/P	30 - 160
2154577	Oxamyl	61.9	73.7	P/P	30 - 160
2154577	Propoxur	19.7	20.7	F/F	30 - 160

Reference Method: EPA 8321B
Batch ID: P378544

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2154942	Acesulfame K	36.5	40.2	F/P	40 - 150
2154942	AMPA	102	91.2	P/P	40 - 150
2154942	Endothall	92.8	95.5	P/P	40 - 150
2154942	Glufosinate	121	125	P/P	40 - 150
2154942	Glyphosate	112	118	P/P	40 - 140
2154942	Sucralose	57.2	60.4	P/P	40 - 150

Reference Method: SM 4500 F-C-2011
Batch ID: P378834

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2155347	Fluoride	98.0	97.4	P/P	89 - 106

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P378683

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2155131	Organic Carbon	101	99.9	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P378458

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2155057	Turbidity	0.983	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P378844

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2155120	Bromide	0.584	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P379490

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2155010	Chloride	0.476	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P379493

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2155010	Sulfate	0.971	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P379055

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2155011	Ammonia-N	0.387	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P378758

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2155121	Kjeldahl Nitrogen	0.134	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P379425

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2155214	NO2NO3-N	0.409	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P378817

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2155058	Total-P	1.24	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P378444

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2155031	O-Phosphate-P	0.364	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P378502

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2155154	Acetochlor	23.7	Spike	P	0 - 30
2155154	Alachlor	27.1	Spike	P	0 - 30
2155154	Ametryn	25.2	Spike	P	0 - 30
2155154	Atrazine	23.2	Spike	P	0 - 30
2155154	Atrazine Desethyl	19.2	Spike	P	0 - 30
2155154	Azinphos Methyl	15.4	Spike	P	0 - 30
2155154	Bromacil	1.37	Spike	P	0 - 30
2155154	Butylate	7.64	Spike	P	0 - 30
2155154	Carbophenothion	22.3	Spike	P	0 - 30
2155154	Chlorpyrifos Ethyl	23.9	Spike	P	0 - 30
2155154	Chlorpyrifos Methyl	22.4	Spike	P	0 - 30
2155154	Cyanazine	23.5	Spike	P	0 - 30
2155154	Demeton	15.9	Spike	P	0 - 30
2155154	Diazinon	26.2	Spike	P	0 - 30
2155154	Dimethenamid	23.2	Spike	P	0 - 30
2155154	Disulfoton	20.5	Spike	P	0 - 30
2155154	Dithiopyr	26.2	Spike	P	0 - 30
2155154	EPTC	11.9	Spike	P	0 - 30
2155154	Ethion	23.2	Spike	P	0 - 30
2155154	Ethoprop	23.3	Spike	P	0 - 30
2155154	Fenamiphos	13.5	Spike	P	0 - 30
2155154	Fipronil	19.5	Spike	P	0 - 30
2155154	Fipronil Desulfinyl	27.2	Spike	P	0 - 30
2155154	Fipronil Sulfide	22.4	Spike	P	0 - 30
2155154	Fipronil Sulfone	16.5	Spike	P	0 - 30
2155154	Flumioxazin	24.8	Spike	P	0 - 30
2155154	Fonofos	20.5	Spike	P	0 - 30
2155154	Hexazinone	28.9	Spike	P	0 - 30
2155154	Imazalil	4.20	Spike	P	0 - 30
2155154	Malathion	24.5	Spike	P	0 - 30
2155154	Metalaxyl	40.2	Spike	F	0 - 30
2155154	Metolachlor	24.6	Spike	P	0 - 30
2155154	Metribuzin	28.6	Spike	P	0 - 30
2155154	Mevinphos	12.3	Spike	P	0 - 30
2155154	Molinate	3.92	Spike	P	0 - 30
2155154	Norflurazon	21.1	Spike	P	0 - 30
2155154	Oxadiazon	24.9	Spike	P	0 - 30
2155154	Parathion Ethyl	27.7	Spike	P	0 - 30
2155154	Parathion Methyl	24.8	Spike	P	0 - 30
2155154	Pendimethalin	29.1	Spike	P	0 - 30
2155154	Phorate	21.4	Spike	P	0 - 30
2155154	Prodiamine	22.7	Spike	P	0 - 30
2155154	Prometon	27.4	Spike	P	0 - 30
2155154	Prometryn	22.9	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P378502

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2155154	Pronamide	28.5	Spike	P	0 - 30
2155154	Propiconazole	24.6	Spike	P	0 - 30
2155154	Simazine	26.3	Spike	P	0 - 30
2155154	Sulfentrazone	30.9	Spike	F	0 - 30
2155154	Tebuconazole	26.8	Spike	P	0 - 30
2155154	Terbufos	19.2	Spike	P	0 - 30
2155154	Terbutylazine	24.0	Spike	P	0 - 30
LFB	Acetochlor	1.34	LCS	P	0 - 30
LFB	Alachlor	5.46	LCS	P	0 - 30
LFB	Ametryn	6.55	LCS	P	0 - 30
LFB	Atrazine	2.75	LCS	P	0 - 30
LFB	Atrazine Desethyl	11.6	LCS	P	0 - 30
LFB	Azinphos Methyl	5.33	LCS	P	0 - 30
LFB	Bromacil	6.21	LCS	P	0 - 30
LFB	Butylate	4.45	LCS	P	0 - 30
LFB	Carbophenothion	3.35	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	2.63	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	1.71	LCS	P	0 - 30
LFB	Cyanazine	10.0	LCS	P	0 - 30
LFB	Demeton	10.2	LCS	P	0 - 30
LFB	Diazinon	3.76	LCS	P	0 - 30
LFB	Dimethenamid	0.370	LCS	P	0 - 30
LFB	Disulfoton	20.3	LCS	P	0 - 30
LFB	Dithiopyr	0.0683	LCS	P	0 - 30
LFB	EPTC	19.1	LCS	P	0 - 30
LFB	Ethion	0.830	LCS	P	0 - 30
LFB	Ethoprop	3.40	LCS	P	0 - 30
LFB	Fenamiphos	4.54	LCS	P	0 - 30
LFB	Fipronil	1.19	LCS	P	0 - 30
LFB	Fipronil Desulfanyl	4.40	LCS	P	0 - 30
LFB	Fipronil Sulfide	6.26	LCS	P	0 - 30
LFB	Fipronil Sulfone	7.73	LCS	P	0 - 30
LFB	Flumioxazin	8.81	LCS	P	0 - 30
LFB	Fonofos	3.70	LCS	P	0 - 30
LFB	Hexazinone	5.44	LCS	P	0 - 30
LFB	Imazalil	13.5	LCS	P	0 - 30
LFB	Malathion	17.0	LCS	P	0 - 30
LFB	Metalaxyl	2.93	LCS	P	0 - 30
LFB	Metolachlor	14.2	LCS	P	0 - 30
LFB	Metribuzin	9.99	LCS	P	0 - 30
LFB	Mevinphos	1.08	LCS	P	0 - 30
LFB	Molinate	5.79	LCS	P	0 - 30
LFB	Norflurazon	3.57	LCS	P	0 - 30
LFB	Oxadiazon	1.36	LCS	P	0 - 30
LFB	Parathion Ethyl	7.01	LCS	P	0 - 30
LFB	Parathion Methyl	0.426	LCS	P	0 - 30
LFB	Pendimethalin	5.47	LCS	P	0 - 30
LFB	Phorate	4.46	LCS	P	0 - 30
LFB	Prodiamine	42.8	LCS	F	0 - 30
LFB	Prometon	1.71	LCS	P	0 - 30
LFB	Prometryn	7.05	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P378502

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Pronamide	5.88	LCS	P	0 - 30
LFB	Propiconazole	2.80	LCS	P	0 - 30
LFB	Simazine	0.498	LCS	P	0 - 30
LFB	Sulfentrazone	9.66	LCS	P	0 - 30
LFB	Tebuconazole	17.9	LCS	P	0 - 30
LFB	Terbufos	7.54	LCS	P	0 - 30
LFB	Terbutylazine	6.47	LCS	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P378791

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2154581	Aldrin	0.0525	Spike	P	0 - 30
2154581	Alpha-BHC	0.435	Spike	P	0 - 30
2154581	Alpha-Chlordane	0.124	Spike	P	0 - 30
2154581	Beta-BHC	2.47	Spike	P	0 - 30
2154581	Bifenthrin	1.95	Spike	P	0 - 30
2154581	Carbophenothion	0.753	Spike	P	0 - 30
2154581	Chlorothalonil	13.8	Spike	P	0 - 30
2154581	Cis-Nonachlor	0.945	Spike	P	0 - 30
2154581	Cypermethrin	1.27	Spike	P	0 - 30
2154581	DDD-p,p'	0.809	Spike	P	0 - 30
2154581	DDE-p,p'	0.355	Spike	P	0 - 30
2154581	DDT-p,p'	0.858	Spike	P	0 - 30
2154581	Delta-BHC	9.80	Spike	P	0 - 30
2154581	Dicofol	3.10	Spike	P	0 - 30
2154581	Dieldrin	1.53	Spike	P	0 - 30
2154581	Endosulfan I	5.56	Spike	P	0 - 30
2154581	Endosulfan II	3.44	Spike	P	0 - 30
2154581	Endosulfan Sulfate	1.99	Spike	P	0 - 30
2154581	Endrin	2.10	Spike	P	0 - 30
2154581	Endrin Aldehyde	0.0321	Spike	P	0 - 30
2154581	Endrin Ketone	3.00	Spike	P	0 - 30
2154581	Ethalfuralin	0.0309	Spike	P	0 - 30
2154581	Gamma-BHC	2.11	Spike	P	0 - 30
2154581	Gamma-Chlordane	0.306	Spike	P	0 - 30
2154581	Heptachlor	2.19	Spike	P	0 - 30
2154581	Heptachlor Epoxide	1.00	Spike	P	0 - 30
2154581	Hexachlorobenzene	2.13	Spike	P	0 - 30
2154581	Methoxychlor	0.653	Spike	P	0 - 30
2154581	Mirex	2.39	Spike	P	0 - 30
2154581	Permethrin	1.62	Spike	P	0 - 30
2154581	Trans-Nonachlor	0.509	Spike	P	0 - 30
2154581	Trifluralin	1.76	Spike	P	0 - 30
LFB	Aldrin	5.57	LCS	P	0 - 30
LFB	Alpha-BHC	3.06	LCS	P	0 - 30
LFB	Alpha-Chlordane	0.232	LCS	P	0 - 30
LFB	Beta-BHC	1.96	LCS	P	0 - 30
LFB	Bifenthrin	4.86	LCS	P	0 - 30
LFB	Carbophenothion	7.16	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P378791

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Chlorothalonil	29.2	LCS	P	0 - 30
LFB	Cis-Nonachlor	0.574	LCS	P	0 - 30
LFB	Cypermethrin	2.06	LCS	P	0 - 30
LFB	DDD-p,p'	1.85	LCS	P	0 - 30
LFB	DDE-p,p'	0.555	LCS	P	0 - 30
LFB	DDT-p,p'	0.746	LCS	P	0 - 30
LFB	Delta-BHC	5.80	LCS	P	0 - 30
LFB	Dicofol	3.82	LCS	P	0 - 30
LFB	Dieldrin	0.840	LCS	P	0 - 30
LFB	Endosulfan I	4.76	LCS	P	0 - 30
LFB	Endosulfan II	5.80	LCS	P	0 - 30
LFB	Endosulfan Sulfate	2.05	LCS	P	0 - 30
LFB	Endrin	0.307	LCS	P	0 - 30
LFB	Endrin Aldehyde	2.49	LCS	P	0 - 30
LFB	Endrin Ketone	2.35	LCS	P	0 - 30
LFB	Ethalfuralin	2.75	LCS	P	0 - 30
LFB	Gamma-BHC	1.89	LCS	P	0 - 30
LFB	Gamma-Chlordane	0.541	LCS	P	0 - 30
LFB	Heptachlor	0.738	LCS	P	0 - 30
LFB	Heptachlor Epoxide	0.909	LCS	P	0 - 30
LFB	Hexachlorobenzene	2.00	LCS	P	0 - 30
LFB	Methoxychlor	0.420	LCS	P	0 - 30
LFB	Mirex	0.0466	LCS	P	0 - 30
LFB	Permethrin	0.551	LCS	P	0 - 30
LFB	Trans-Nonachlor	1.17	LCS	P	0 - 30
LFB	Trifluralin	0.276	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P378791

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2154874	Chlordane	0.520	Spike	P	0 - 30
2154874	Toxaphene	5.13	Spike	P	0 - 30
LFB	Chlordane	1.33	LCS	P	0 - 30
LFB	Toxaphene	2.69	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P378426

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2154702	2,4-D	5.99	Spike	P	0 - 30
2154702	Acetaminophen	4.54	Spike	P	0 - 30
2154702	Acetamiprid	7.66	Spike	P	0 - 30
2154702	Afidopyropen	3.69	Spike	P	0 - 30
2154702	Bentazon	6.02	Spike	P	0 - 30
2154702	Benzovindiflupyr	1.82	Spike	P	0 - 30
2154702	Carbamazepine	6.61	Spike	P	0 - 30
2154702	Clothianidin	6.55	Spike	P	0 - 30
2154702	Dinotefuran	6.60	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P378426

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2154702	Diuron	14.4	Spike	P	0 - 30
2154702	Fenuron	5.99	Spike	P	0 - 30
2154702	Fluridone	4.71	Spike	P	0 - 30
2154702	Hydrocodone	11.9	Spike	P	0 - 30
2154702	Ibuprofen	5.36	Spike	P	0 - 30
2154702	Imazapyr	10.2	Spike	P	0 - 30
2154702	Imidacloprid	1.34	Spike	P	0 - 30
2154702	Linuron	3.30	Spike	P	0 - 30
2154702	Mandestrobin	1.90	Spike	P	0 - 30
2154702	MCP	3.93	Spike	P	0 - 30
2154702	Naproxen	49.1	Spike	F	0 - 30
2154702	Primidone	2.64	Spike	P	0 - 30
2154702	Pyraclostrobin	2.95	Spike	P	0 - 30
2154702	Thiamethoxam	7.32	Spike	P	0 - 30
2154702	Tolfenpyrad	9.60	Spike	P	0 - 30
2154702	Triclopyr	1.94	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P378510

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2154577	3-Hydroxycarbofuran	25.2	Spike	P	0 - 30
2154577	Aldicarb	40.0	Spike	F	0 - 30
2154577	Aldicarb Sulfone	8.73	Spike	P	0 - 30
2154577	Aldicarb Sulfoxide	25.0	Spike	P	0 - 30
2154577	Carbaryl	1.11	Spike	P	0 - 30
2154577	Carbofuran	2.53	Spike	P	0 - 30
2154577	Methiocarb	8.30	Spike	P	0 - 30
2154577	Methomyl	15.3	Spike	P	0 - 30
2154577	Oxamyl	17.4	Spike	P	0 - 30
2154577	Propoxur	1.92	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P378544

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2154942	Acesulfame K	9.74	Spike	P	0 - 30
2154942	AMPA	11.2	Spike	P	0 - 30
2154942	Endothall	2.94	Spike	P	0 - 30
2154942	Glufosinate	3.12	Spike	P	0 - 30
2154942	Glyphosate	5.30	Spike	P	0 - 30
2154942	Sucralose	4.99	Spike	P	0 - 30

Reference Method: SM 2120 B-2011
Batch ID: P378462

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2155024	Color (true)	18.5	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P378558

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2155347	Total Alkalinity	0.0387	Sample	P	0 - 2.8

Reference Method: SM 2540 C-2011
Batch ID: P379348

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2155024	TDS	1.47	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P378834

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2155347	Fluoride	0.514	Spike	P	0 - 2.5

Reference Method: SM 5310 B-2011
Batch ID: P378683

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2155131	Organic Carbon	0.592	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Surrogates

Lab Sample ID: 2155145
Field Sample ID: G4NW0193

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	57.2	P	30 - 160

Lab Sample ID: 2155146
Field Sample ID: G4NW0193

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	120	P	30 - 160
EPA 8321B	Acetaminophen-d4	109	P	30 - 160
EPA 8321B	Carbamazepine-d10	92.9	P	30 - 160
EPA 8321B	Diuron-d6	74.3	P	30 - 160
EPA 8321B	Endothall-d6	107	P	30 - 160
EPA 8321B	Endothall-d6	107	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	84.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	84.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	83.2	P	30 - 160
EPA 8321B	Primidone-d5	108	P	30 - 160
EPA 8321B	Sucralose-d6	36.9	P	30 - 160
EPA 8321B	Sucralose-d6	36.9	P	30 - 160

Lab Sample ID: 2155147
Field Sample ID: G4NW0211

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	124	P	30 - 160
EPA 8321B	Acetaminophen-d4	96.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	94.1	P	30 - 160
EPA 8321B	Diuron-d6	82.6	P	30 - 160
EPA 8321B	Endothall-d6	110	P	30 - 160
EPA 8321B	Endothall-d6	110	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	83.6	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	83.6	P	30 - 160
EPA 8321B	Ibuprofen-d3	80.5	P	30 - 160
EPA 8321B	Primidone-d5	108	P	30 - 160
EPA 8321B	Sucralose-d6	38.7	P	30 - 160
EPA 8321B	Sucralose-d6	38.7	P	30 - 160

Lab Sample ID: 2155153
Field Sample ID: G4NW0193

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	111	P	44 - 112
EPA 8270E	Tetrachloro-m-xylene	95.9	P	34 - 106
EPA 8276	Decachlorobiphenyl	96.5	P	26 - 97.0
EPA 8276	PCNB	110	P	38 - 141

Lab Sample ID: 2155154
Field Sample ID: G4NW0193

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	95.1	P	72 - 135
EPA 8270E	Terbufos-d10	84.4	P	57 - 134

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A97361

Included Lab Sample IDs: 2155116, 2155119, 2155122

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	96.9	96.1	P/P	90 - 110
O-Phosphate-P	98.1	96.9	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A97366

Included Lab Sample IDs: 2155114, 2155117, 2155120

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

Reference Method: SM 2120 B-2011

Run ID: A97367

Included Lab Sample IDs: 2155114, 2155117, 2155120

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	99.7	P/P	90 - 115

Reference Method: SM 2320 B-2011

Run ID: A97407

Included Lab Sample IDs: 2155114, 2155117, 2155120

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	105	P/P	90 - 110
Total Alkalinity	104	101	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A97412

Included Lab Sample IDs: 2155146, 2155147

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	99.8	77.7	P/P	50 - 150
Acetaminophen	95.6	101	P/P	60 - 160
Acetamiprid	105	94.5	P/P	50 - 150
Afidopyropen	93.1	105	P/P	50 - 150
Bentazon	84.4	91.7	P/P	50 - 160
Benzovindiflupyr	98.8	101	P/P	50 - 150
Carbamazepine	101	91.5	P/P	60 - 150
Clothianidin	103	94.6	P/P	60 - 150
Dinotefuran	96.7	96.1	P/P	50 - 150
Diuron	114	106	P/P	60 - 150
Fenuron	103	101	P/P	60 - 150
Fluridone	108	107	P/P	60 - 160
Hydrocodone	93.8	89.9	P/P	60 - 150
Ibuprofen	84.0	86.8	P/P	50 - 160
Imazapyr	112	83.3	P/P	50 - 150
Imidacloprid	97.7	96.3	P/P	60 - 150
Linuron	103	98.0	P/P	60 - 150
Mandestrobin	109	108	P/P	50 - 150
MCPP	98.1	89.6	P/P	50 - 150
Naproxen	87.6	127	P/P	50 - 160
Primidone	99.9	93.9	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A97412

Included Lab Sample IDs: 2155146, 2155147

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraclostrobin	108	101	P/P	60 - 150
Thiamethoxam	101	95.3	P/P	50 - 150
Tolfenpyrad	94.8	96.4	P/P	60 - 150
Triclopyr	107	90.9	P/P	50 - 150

Reference Method: SM 5310 B-2011

Run ID: A97440

Included Lab Sample IDs: 2155115, 2155118, 2155121

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	103	98.8	P/P	90 - 110
Organic Carbon	98.8	102	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A97496

Included Lab Sample IDs: 2155114, 2155117, 2155120

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A97501

Included Lab Sample IDs: 2155120

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bromide	99.3	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A97523

Included Lab Sample IDs: 2155115, 2155118, 2155121

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	106	101	P/P	90 - 110
Kjeldahl Nitrogen	98.2	106	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A97533

Included Lab Sample IDs: 2155145

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	100	100	P/P	60 - 150
Aldicarb	140	127	P/P	60 - 150
Aldicarb Sulfone	96.4	104	P/P	50 - 150
Aldicarb Sulfoxide	100	94.8	P/P	50 - 150
Carbaryl	106	99.2	P/P	60 - 150
Carbofuran	115	135	P/P	50 - 150
Methiocarb	95.2	89.1	P/P	50 - 150
Methomyl	95.4	95.4	P/P	50 - 150
Oxamyl	95.6	91.6	P/P	50 - 150
Propoxur	103	104	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A97585

Included Lab Sample IDs: 2155115, 2155118, 2155121

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

Reference Method: EPA 8276

Run ID: A97589

Included Lab Sample IDs: 2155153

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.3		P	80 - 120
Toxaphene	106		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A97594

Included Lab Sample IDs: 2155115

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A97595

Included Lab Sample IDs: 2155118, 2155121

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.1	99.4	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A97597

Included Lab Sample IDs: 2155146, 2155147

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	108	88.6	P/P	60 - 160
Glufosinate	136	123	P/P	60 - 160
Glyphosate	112	106	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A97601

Included Lab Sample IDs: 2155146, 2155147

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	93.0	68.8	P/P	60 - 160
Endothall	93.9	96.8	P/P	60 - 160

Reference Method: EPA 8270E

Run ID: A97626

Included Lab Sample IDs: 2155153

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	112		P	80 - 120
Alpha-BHC	113		P	80 - 120
Alpha-Chlordane	112		P	80 - 120
Beta-BHC	113		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A97626

Included Lab Sample IDs: 2155153

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bifenthrin	112		P	80 - 120
Carbophenothion	118		P	80 - 120
Chlorothalonil	115		P	80 - 120
Cis-Nonachlor	110		P	80 - 120
Cypermethrin	115		P	80 - 120
DDD-p,p'	113		P	80 - 120
DDE-p,p'	113		P	80 - 120
DDT-p,p'	109		P	80 - 120
Delta-BHC	115		P	80 - 120
Dicofol	106		P	80 - 120
Dieldrin	116		P	80 - 120
Endosulfan I	119		P	80 - 120
Endosulfan II	117		P	80 - 120
Endosulfan Sulfate	109		P	80 - 120
Endrin	105		P	80 - 120
Endrin Aldehyde	110		P	80 - 120
Endrin Ketone	110		P	80 - 120
Ethalfuralin	110		P	80 - 120
Gamma-BHC	116		P	80 - 120
Gamma-Chlordane	112		P	80 - 120
Heptachlor	117		P	80 - 120
Heptachlor Epoxide	112		P	80 - 120
Hexachlorobenzene	112		P	80 - 120
Methoxychlor	109		P	80 - 120
Mirex	110		P	80 - 120
Permethrin	107		P	80 - 120
Trans-Nonachlor	112		P	80 - 120
Trifluralin	114		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A97638

Included Lab Sample IDs: 2155114, 2155117, 2155120

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	97.6	97.8	P/P	90 - 110
Sulfate	98.4	98.5	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A97702

Included Lab Sample IDs: 2155154

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	104		P	80 - 120
Alachlor	102		P	80 - 120
Ametryn	103		P	80 - 120
Atrazine	103		P	80 - 120
Atrazine Desethyl	103		P	80 - 120
Azinphos Methyl	92.6		P	80 - 120
Bromacil	105		P	80 - 120
Butylate	97.2		P	80 - 120
Carbophenothion	97.8		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A97702

Included Lab Sample IDs: 2155154

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlorpyrifos Ethyl	101		P	80 - 120
Chlorpyrifos Methyl	98.3		P	80 - 120
Cyanazine	106		P	80 - 120
Demeton	96.3		P	80 - 120
Diazinon	105		P	80 - 120
Dimethenamid	103		P	80 - 120
Disulfoton	100		P	80 - 120
Dithiopyr	105		P	80 - 120
EPTC	100		P	80 - 120
Ethion	96.2		P	80 - 120
Ethoprop	101		P	80 - 120
Fenamiphos	98.1		P	80 - 120
Fipronil	102		P	80 - 120
Fipronil Desulfinyl	106		P	80 - 120
Fipronil Sulfide	99.7		P	80 - 120
Fipronil Sulfone	98.5		P	80 - 120
Flumioxazin	95.4		P	80 - 120
Fonofos	98.0		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	97.8		P	80 - 120
Malathion	98.6		P	80 - 120
Metalaxyl	101		P	80 - 120
Metolachlor	108		P	80 - 120
Metribuzin	101		P	80 - 120
Mevinphos	98.1		P	80 - 120
Molinate	98.9		P	80 - 120
Norflurazon	105		P	80 - 120
Oxadiazon	109		P	80 - 120
Parathion Ethyl	99.0		P	80 - 120
Parathion Methyl	94.2		P	80 - 120
Pendimethalin	97.5		P	80 - 120
Phorate	100		P	80 - 120
Prodiamine	102		P	80 - 120
Prometon	104		P	80 - 120
Prometryn	102		P	80 - 120
Pronamide	92.9		P	80 - 120
Propiconazole	104		P	80 - 120
Simazine	96.6		P	80 - 120
Sulfentrazone	100		P	80 - 120
Tebuconazole	105		P	80 - 120
Terbufos	100		P	80 - 120
Terbutylazine	101		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A97741

Included Lab Sample IDs: 2155115, 2155118, 2155121

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A97805

Included Lab Sample IDs: 2155146, 2155147

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	103	108	P/P	60 - 160

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			Precision	
							LCS	SMP MS
EPA 180.1 Rev. 2.0	Turbidity							0.983
EPA 300.0 Rev. 2.1	Bromide	102		100	99.7	101		0.584
	Chloride	98.8		98.6	101			0.476
	Sulfate	99.5		98.0	99.0			0.971
EPA 350.1 Rev. 2.0	Ammonia-N	99.2		100	100			0.387
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.8		102	102			0.134
EPA 353.2 Rev. 2.0	NO2NO3-N	100		100	99.8			0.409
EPA 365.1 Rev. 2.0	Total-P	104		105	103			1.24
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.9		95.4	95.9			0.364
EPA 8270E	Acetochlor	93.2	92.0	93.0	118	1.34		23.7
	Alachlor	98.5	93.3	88.1	116	5.46		27.1
	Aldrin	64.4	60.9	78.4	78.5	5.57		0.0525
	Alpha-BHC	98.2	101	94.4	94.0	3.06		0.435
	Alpha-Chlordane	93.9	94.1	87.1	87.0	0.232		0.124
	Ametryn	103	96.2	93.7	121	6.55		25.2
	Atrazine	95.7	93.1	101	142	2.75		23.2
	Atrazine Desethyl	91.8	81.7	77.1	99.0	11.6		19.2
	Azinphos Methyl	121	115	86.8	101	5.33		15.4
	Beta-BHC	115	113	109	106	1.96		2.47
	Bifenthrin	90.8	95.3	111	114	4.86		1.95
	Bromacil	88.3	93.9	75.8	74.8	6.21		1.37
	Butylate	70.1	73.3	17.3	18.7	4.45		7.64
	Carbophenothion	88.1	91.1	86.8	109	3.35		22.3
	Carbophenothion	59.2	63.6	111	112	7.16		0.753
	Chlorothalonil	96.4	71.8	175	152	29.2		13.8
	Chlorpyrifos Ethyl	96.3	98.9	89.7	114	2.63		23.9
	Chlorpyrifos Methyl	94.7	93.1	78.7	98.6	1.71		22.4
	Cis-Nonachlor	94.7	94.2	88.7	87.8	0.574		0.945
	Cyanazine	116	105	97.7	124	10.0		23.5
	Cypermethrin	99.0	101	117	118	2.06		1.27
	DDD-p,p'	102	104	93.3	94.0	1.85		0.809
	DDE-p,p'	90.6	91.1	88.2	88.5	0.555		0.355
	DDT-p,p'	86.6	86.0	83.5	82.8	0.746		0.858
	Delta-BHC	131	124	190	172	5.80		9.80
	Demeton	75.0	83.1	63.5	74.5	10.2		15.9
	Diazinon	96.0	92.4	91.5	119	3.76		26.2
	Dicofol	95.8	92.2	43.8	42.4	3.82		3.10
	Dieldrin	101	102	91.4	92.8	0.840		1.53
	Dimethenamid	94.1	93.7	95.2	120	0.370		23.2
	Disulfoton	72.9	89.4	69.9	85.9	20.3		20.5
	Dithiopyr	88.7	88.7	92.0	121	0.0683		26.2
	Endosulfan I	111	106	107	113	4.76		5.56
	Endosulfan II	115	109	106	102	5.80		3.44
	Endosulfan Sulfate	100	102	106	104	2.05		1.99
	Endrin	101	101	91.5	89.6	0.307		2.10
	Endrin Aldehyde	102	99.2	97.0	97.0	2.49		0.0321
	Endrin Ketone	100	103	109	106	2.35		3.00
	EPTC	49.8	41.1	18.5	16.4	19.1		11.9
	Ethalfuralin	91.2	88.7	85.7	85.7	2.75		0.0309
	Ethion	87.9	87.2	95.2	120	0.830		23.2
	Ethoprop	82.5	79.8	72.9	92.1	3.40		23.3
	Fenamiphos	98.2	103	64.1	56.0	4.54		13.5
	Fipronil	108	109			1.19		19.5
	Fipronil Desulfinyl	92.2	96.4	99.8	131	4.40		27.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270E	Fipronil Sulfide	90.1	95.9	96.5	144	6.26	22.4
	Fipronil Sulfone	86.9	93.8			7.73	16.5
	Flumioxazin	116	127	167	214	8.81	24.8
	Fonofos	83.3	86.4	67.2	82.5	3.70	20.5
	Gamma-BHC	116	113	110	112	1.89	2.11
	Gamma-Chlordane	91.4	91.9	86.1	86.3	0.541	0.306
	Heptachlor	88.4	89.0	81.4	79.7	0.738	2.19
	Heptachlor Epoxide	98.7	97.8	89.6	88.7	0.909	1.00
	Hexachlorobenzene	89.8	88.0	74.9	76.6	2.00	2.13
	Hexazinone	88.1	93.0	99.3	133	5.44	28.9
	Imazalil	82.7	94.6	105	101	13.5	4.20
	Malathion	97.2	82.0	100	78.5	17.0	24.5
	Metalaxyl	89.0	91.7	91.5	138	2.93	40.2
	Methoxychlor	97.7	98.2	103	103	0.420	0.653
	Metolachlor	96.3	83.5	93.3	119	14.2	24.6
	Metribuzin	173	156	92.4	123	9.99	28.6
	Mevinphos	79.9	79.1	61.2	69.2	1.08	12.3
	Mirex	78.0	78.1	79.9	81.8	0.0466	2.39
	Molinate	61.6	58.1	30.8	32.0	5.79	3.92
	Norflurazon	93.3	96.7	89.6	111	3.57	21.1
	Oxadiazon	81.1	80.0	90.2	116	1.36	24.9
	Parathion Ethyl	85.2	91.3	89.6	118	7.01	27.7
	Parathion Methyl	92.8	92.5	93.6	120	0.426	24.8
	Pendimethalin	87.5	82.9	84.9	114	5.47	29.1
	Permethrin	90.8	91.3	97.1	98.7	0.551	1.62
	Phorate	83.5	87.3	74.1	91.9	4.46	21.4
	Prodiamine	55.4	85.6	107	134	42.8	22.7
	Prometon	90.9	92.4	91.6	121	1.71	27.4
	Prometryn	106	98.9	94.3	119	7.05	22.9
	Pronamide	91.3	96.8	99.5	133	5.88	28.5
	Propiconazole	101	103	86.6	111	2.80	24.6
	Simazine	99.6	99.1	96.2	134	0.498	26.3
	Sulfentrazone	86.2	78.3	83.5	135	9.66	30.9
	Tebuconazole	69.7	83.4	62.4	81.7	17.9	26.8
	Terbufos	83.3	89.8	75.9	92.1	7.54	19.2
	Terbutylazine	87.8	93.6	95.9	122	6.47	24.0
	Trans-Nonachlor	88.8	89.8	81.2	81.6	1.17	0.509
	Trifluralin	91.4	91.1	82.7	84.2	0.276	1.76
EPA 8276	Chlordane	77.0	75.9	94.6	94.1	1.33	0.520
	Toxaphene	83.1	85.4	99.3	94.3	2.69	5.13
EPA 8321B	2,4-D	122		108	116		5.99
	3-Hydroxycarbofuran	81.4		61.6	79.4		25.2
	Acesulfame K	87.8		36.5	40.2		9.74
	Acetaminophen	76.7		88.6	92.7		4.54
	Acetamiprid	88.1		91.4	84.7		7.66
	Afidopyropen	82.6		92.6	96.1		3.69
	Aldicarb	108		75.7	50.4		40.0
	Aldicarb Sulfone	91.6		83.9	91.5		8.73
	Aldicarb Sulfoxide	98.2		48.1	37.4		25.0
	AMPA	88.7		102	91.2		11.2
	Bentazon	65.9					6.02
	Benzovindiflupyr	77.4		77.4	78.8		1.82
	Carbamazepine	77.8		75.4	80.6		6.61
	Carbaryl	74.3		54.9	55.5		1.11

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
			LCS	SMP	MS	
EPA 8321B	Carbofuran	84.3	62.4	64.0		2.53
	Clothianidin	81.8	87.3	93.8		6.55
	Dinotefuran	87.3	113	122		6.60
	Diuron	88.5	75.0	64.9		14.4
	Endothall	96.9	92.8	95.5		2.94
	Fenuron	98.0	79.4	74.8		5.99
	Fluridone	83.9	89.6	84.5		4.71
	Glufosinate	137	121	125		3.12
	Glyphosate	115	112	118		5.30
	Hydrocodone	92.2	101	90.1		11.9
	Ibuprofen	76.6	71.4	67.7		5.36
	Imazapyr	96.6	75.0	88.9		10.2
	Imidacloprid	95.0	151	149		1.34
	Linuron	69.6	65.1	63.0		3.30
	Mandestrobin	92.4	90.4	92.1		1.90
	MCPP	126	112	117		3.93
	Methiocarb	62.7	62.4	57.4		8.30
	Methomyl	66.6	54.7	63.7		15.3
	Naproxen	90.4	118	71.2		49.1
	Oxamyl	87.5	61.9	73.7		17.4
	Primidone	90.0	90.3	88.0		2.64
	Propoxur	61.2	19.7	20.7		1.92
	Pyraclostrobin	96.1	89.3	91.9		2.95
	Sucralose	99.1	57.2	60.4		4.99
	Thiamethoxam	95.6	118	129		7.32
	Tolfenpyrad	50.1	49.7	45.2		9.60
	Triclopyr	104	104	102		1.94
SM 2120 B-2011	Color (true)	98.6			18.5	
SM 2320 B-2011	Total Alkalinity	103			0.0387	
SM 2540 C-2011	TDS				1.47	
SM 4500 F-C-2011	Fluoride	98.2	98.0	97.4		0.514
SM 5310 B-2011	Organic Carbon	98.0	101	99.9		0.592

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2155114, 2155117, 2155120
EPA 300.0 Rev. 2.1	Bromide in aqueous matrices	2155120
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2155114, 2155117, 2155120
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2155114, 2155117, 2155120
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2155115, 2155118, 2155121
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2155115, 2155118, 2155121
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2155115, 2155118, 2155121
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2155115, 2155118, 2155121
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2155116, 2155119, 2155122
EPA 8270E	Organochlorine pesticides in water matrices by GC/MS-SIM	2155153
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2155154
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2155153
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2155145
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2155146, 2155147
EPA 8321B	Water soluble organic compounds by HPLC/MS/MS	2155146, 2155147

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2155114, 2155117, 2155120
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2155114, 2155117, 2155120
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2155114, 2155117, 2155120
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2155114, 2155117, 2155120
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2155114, 2155117, 2155120
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2155115, 2155118, 2155121

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	02/06/2020			02/06/2020 16:32	Yen Ta	2155114, 2155117, 2155120
EPA 300.0 Rev. 2.1	02/06/2020			02/12/2020 05:35	Elliott Rodriguez	2155120
	02/06/2020			02/20/2020 17:45	Elliott Rodriguez	2155114
	02/06/2020			02/20/2020 17:57	Elliott Rodriguez	2155117
	02/06/2020			02/20/2020 18:09	Elliott Rodriguez	2155120
EPA 350.1 Rev. 2.0	02/06/2020			02/14/2020 10:47	Ping Hua	2155115
	02/06/2020			02/14/2020 10:49	Ping Hua	2155118
	02/06/2020			02/14/2020 13:30	Ping Hua	2155121
EPA 351.2 Rev. 2.0	02/06/2020	02/12/2020 12:30	Elliott Rodriguez	02/13/2020 13:57	Julia Storbeck	2155121
	02/06/2020	02/12/2020 12:30	Elliott Rodriguez	02/13/2020 14:08	Julia Storbeck	2155115
	02/06/2020	02/12/2020 12:30	Elliott Rodriguez	02/13/2020 14:10	Julia Storbeck	2155118
EPA 353.2 Rev. 2.0	02/06/2020			02/20/2020 10:06	Beverly Y. Sanders	2155115
	02/06/2020			02/20/2020 10:14	Beverly Y. Sanders	2155118
	02/06/2020			02/20/2020 10:15	Beverly Y. Sanders	2155121
EPA 365.1 Rev. 2.0	02/06/2020	02/12/2020 14:34	Yen Ta	02/14/2020 13:38	Benjamin T. Nordmann	2155118
	02/06/2020	02/12/2020 14:34	Yen Ta	02/14/2020 13:39	Benjamin T. Nordmann	2155121
	02/06/2020	02/12/2020 14:34	Yen Ta	02/17/2020 15:59	Benjamin T. Nordmann	2155115
EPA 365.1 Rev. 2.0 dissolved	02/06/2020			02/06/2020 15:22	Carlos Miranda	2155116
	02/06/2020			02/06/2020 15:27	Carlos Miranda	2155119
	02/06/2020			02/06/2020 15:28	Carlos Miranda	2155122
EPA 8270E	02/06/2020	02/07/2020 08:00	Fe-Val Siddell	02/19/2020 15:06	Vandana T. Nagar	2155154
	02/06/2020	02/10/2020 08:30	Rasheda Ghaffari	02/15/2020 00:02	Michael Poppell	2155153
EPA 8276	02/06/2020	02/10/2020 08:30	Rasheda Ghaffari	02/16/2020 06:32	Julie Wi	2155153
EPA 8321B	02/06/2020	02/07/2020 10:00	Hoor Shaik	02/08/2020 23:09	Juyoung Kim	2155146
	02/06/2020	02/07/2020 10:00	Hoor Shaik	02/08/2020 23:43	Juyoung Kim	2155147
	02/06/2020	02/10/2020 11:45	Rebecca Ware	02/10/2020 16:23	Rebecca Ware	2155146
	02/06/2020	02/10/2020 11:45	Rebecca Ware	02/10/2020 16:33	Rebecca Ware	2155147
	02/06/2020	02/10/2020 11:45	Rebecca Ware	02/11/2020 12:32	Rebecca Ware	2155146
	02/06/2020	02/10/2020 11:45	Rebecca Ware	02/11/2020 12:45	Rebecca Ware	2155147
	02/06/2020	02/10/2020 11:45	Rebecca Ware	02/22/2020 13:20	Rebecca Ware	2155146
	02/06/2020	02/10/2020 11:45	Rebecca Ware	02/22/2020 13:34	Rebecca Ware	2155147
	02/06/2020	02/11/2020 10:00	Hoor Shaik	02/14/2020 02:55	Juyoung Kim	2155145
SM 2120 B-2011	02/06/2020			02/06/2020 16:16	Madeline Funaro	2155114, 2155117
	02/06/2020			02/06/2020 16:17	Madeline Funaro	2155120
SM 2320 B-2011	02/06/2020			02/08/2020 14:11	Dale L. Simmons	2155114
	02/06/2020			02/08/2020 14:52	Dale L. Simmons	2155117
	02/06/2020			02/08/2020 15:05	Dale L. Simmons	2155120
SM 2540 C-2011	02/06/2020			02/11/2020 15:30	Sima Feizi	2155114, 2155117, 2155120
SM 2540 D-2011	02/06/2020			02/11/2020 15:30	Sima Feizi	2155114, 2155117, 2155120
SM 4500 F-C-2011	02/06/2020			02/13/2020 00:01	Dale L. Simmons	2155114

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 4500 F-C-2011	02/06/2020			02/13/2020 00:06	Dale L. Simmons	2155117
	02/06/2020			02/13/2020 01:39	Dale L. Simmons	2155120
SM 5310 B-2011	02/06/2020			02/10/2020 22:30	Madeline Funaro	2155115
	02/06/2020			02/10/2020 23:07	Madeline Funaro	2155118
	02/06/2020			02/10/2020 23:19	Madeline Funaro	2155121