

Chemical Analysis Report

CEN-DIST-2019-09-11-01

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

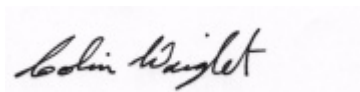
Event Description: **Dead River**
Request ID: **RQ-2019-08-12-39**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
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Orlando, FL 32803-3767
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Certified by: Colin Wright, Program Administrator

Date Certified: 02-OCT-2019 16:16

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light gray rectangular background.

Case Narrative

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

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

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

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

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

**Sample Location: DEAD RIVER @ 1250 M NORTH OF LAKE
HATCHINEHA**

Collection Date/Time: 09/10/2019 11:32

Field ID: G4CE0167

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2118201	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P370499	
	EPA 300.0 Rev. 2.1	Chloride	17		mg Cl/L	P370812	
		Sulfate	0.74		mg SO4/L	P370815	
	SM 2120 B	Color (true)	520		PCU	P370530	
	SM 2320 B-97	Total Alkalinity	28		mg CaCO3/L	P371031	
	SM 2540 C-97	TDS	142		mg/L	P371182	
	SM 2540 D-97	TSS	4	I	mg/L	P371156	
	SM 4500 F-C-97	Fluoride	0.073	I	mg F/L	P371509	
2118202	EPA 350.1 Rev. 2.0	Ammonia-N	0.014		mg N/L	P370765	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.5		mg N/L	P370750	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.019		mg N/L	P370555	
	EPA 365.1 Rev. 2.0	Total-P	0.065		mg P/L	P370645	
	SM 5310 B-00	Organic Carbon	43		mg C/L	P370754	
2118203	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.040		mg P/L	P370500	
2118214	EPA 8321B	Aldicarb	0.020	U	ug/L	P370422	
		Aldicarb Sulfone	0.0020	U	ug/L	P370422	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P370422	
		Carbaryl	0.0020	U	ug/L	P370422	
		Carbofuran	0.0020	U	ug/L	P370422	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P370422	
		Methiocarb	0.0020	U	ug/L	P370422	
		Methomyl	0.0020	U	ug/L	P370422	
		Oxamyl	0.0020	U	ug/L	P370422	
		Propoxur	0.0020	U	ug/L	P370422	
2118215		2,4-D	0.0020	U	ug/L	P370422	
		Acesulfame K**	0.10	U	ug/L	P370512	
		AMPA**	0.24	I	ug/L	P370512	
		Sucralose**	1.1		ug/L	P370512	MS
		Acetaminophen**	0.0080	U	ug/L	P370422	
		Endothall**	0.25	U	ug/L	P370512	
		Acetamiprid**	0.0020	U	ug/L	P370422	
		Glufosinate**	0.10	U	ug/L	P370512	
		Glyphosate**	0.10	U	ug/L	P370512	
		Afidopyropen**	0.0020	UJ	ug/L	P370422	
		Bentazon	0.014		ug/L	P370422	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P370422	
		Carbamazepine**	8.0E-04	U	ug/L	P370422	
		Clothianidin**	0.0020	U	ug/L	P370422	
		Dinotefuran**	0.0020	U	ug/L	P370422	
		Diuron	0.0020	U	ug/L	P370422	
		Fenuron	0.016	U	ug/L	P370422	
		Fluridone**	0.0022	I	ug/L	P370422	

Field ID: G4CE0167

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2118215	EPA 8321B	Imazapyr**	0.038		ug/L	P370422	
		Hydrocodone**	0.0020	U	ug/L	P370422	
		Ibuprofen**	0.020	U	ug/L	P370422	
		Imidacloprid	0.0020	U	ug/L	P370422	MS
		Linuron	0.0040	U	ug/L	P370422	
		Mandestrobin**	0.0020	UJ	ug/L	P370422	
		MCP	0.0020	UJ	ug/L	P370422	LCS, MS
		Naproxen**	0.0080	U	ug/L	P370422	RPD
		Primidone**	0.0040	U	ug/L	P370422	
		Pyraclostrobin**	0.0020	U	ug/L	P370422	
		Thiamethoxam**	0.0020	U	ug/L	P370422	MS
		Tolfenpyrad**	0.0020	U	ug/L	P370422	
		Triclopyr**	0.0040	U	ug/L	P370422	
2118220	EPA 8270E	Aldrin	4.2	U	ng/L	P370542	
		Alpha-BHC	2.1	U	ng/L	P370542	
		Alpha-Chlordane	1.1	U	ng/L	P370542	
		Beta-BHC	11	U	ng/L	P370542	
		Bifenthrin**	4.2	U	ng/L	P370542	
		Delta-BHC	8.5	U	ng/L	P370542	
		Gamma-BHC	8.5	U	ng/L	P370542	
		Carbophenothion	11	U	ng/L	P370542	
		Chlorothalonil	2.1	U	ng/L	P370542	
		Cis-Nonachlor**	1.1	U	ng/L	P370542	
		Cypermethrin	21	U	ng/L	P370542	
		DDD-p,p'	6.3	U	ng/L	P370542	
		DDE-p,p'	6.3	U	ng/L	P370542	
		DDT-p,p'	7.4	U	ng/L	P370542	
		Dicofol	32	U	ng/L	P370542	
		Dieldrin	4.2	U	ng/L	P370542	
		Endosulfan I	4.2	U	ng/L	P370542	
		Endosulfan II	4.2	U	ng/L	P370542	
		Endosulfan Sulfate	2.1	U	ng/L	P370542	
		Endrin	2.1	U	ng/L	P370542	
		Endrin Aldehyde	2.1	U	ng/L	P370542	
		Endrin Ketone	2.1	U	ng/L	P370542	
		Ethalfuralin**	3.2	U	ng/L	P370542	
		Gamma-Chlordane	1.1	U	ng/L	P370542	
		Heptachlor	1.6	U	ng/L	P370542	
		Heptachlor Epoxide	2.1	U	ng/L	P370542	
		Hexachlorobenzene	2.1	U	ng/L	P370542	MS
		Methoxychlor	4.2	U	ng/L	P370542	
		Mirex	2.1	U	ng/L	P370542	
		Permethrin	11	U	ng/L	P370542	
		Trans-Nonachlor**	1.1	U	ng/L	P370542	
		Trifluralin	2.6	U	ng/L	P370542	

Field ID: G4CE0167

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2118220	EPA 8276	Chlordane	5.3	U	ng/L	P370542	
		Toxaphene	32	U	ng/L	P370542	
2118221	EPA 8270E	Acetochlor	0.26	U	ng/L	P370470	
		Alachlor	0.26	U	ng/L	P370470	
		Ametryn	0.63	U	ng/L	P370470	MS
		Atrazine	0.41	I	ng/L	P370470	
		Atrazine Desethyl	1.6	U	ng/L	P370470	RPD
		Azinphos Methyl	5.2	U	ng/L	P370470	
		Bromacil	0.52	U	ng/L	P370470	
		Butylate	0.42	U	ng/L	P370470	
		Chlorpyrifos Ethyl	0.26	U	ng/L	P370470	
		Chlorpyrifos Methyl	0.10	U	ng/L	P370470	
		Cyanazine	3.4	UJ	ng/L	P370470	RPD
		Demeton	7.3	U	ng/L	P370470	
		Diazinon	0.13	U	ng/L	P370470	
		Dimethenamid**	0.10	U	ng/L	P370470	
		Disulfoton	0.52	U	ng/L	P370470	
		Dithiopyr**	0.10	U	ng/L	P370470	
		EPTC	1.3	U	ng/L	P370470	
		Ethion	0.16	U	ng/L	P370470	
		Ethoprop	0.10	U	ng/L	P370470	
		Fenamiphos	0.52	U	ng/L	P370470	MS
		Fipronil	0.26	U	ng/L	P370470	RPD
		Fipronil Desulfinyl**	0.13	U	ng/L	P370470	RPD
		Fipronil Sulfide	0.16	U	ng/L	P370470	MS, RPD
		Fipronil Sulfone	0.16	U	ng/L	P370470	RPD
		Fonofos	0.21	U	ng/L	P370470	
		Hexazinone	0.52	U	ng/L	P370470	
		Malathion	0.37	U	ng/L	P370470	
		Metalaxyl	0.31	U	ng/L	P370470	
		Metolachlor	0.52	U	ng/L	P370470	
		Metribuzin	0.78	UJ	ng/L	P370470	RPD
		Mevinphos	0.52	U	ng/L	P370470	
		Molinate	0.31	U	ng/L	P370470	
		Norflurazon	0.52	U	ng/L	P370470	RPD
		Oxadiazon**	0.10	U	ng/L	P370470	
		Parathion Ethyl	0.26	U	ng/L	P370470	
		Parathion Methyl	0.58	U	ng/L	P370470	
		Pendimethalin	1.0	U	ng/L	P370470	
		Phorate	0.26	U	ng/L	P370470	
		Prodiamine**	0.18	U	ng/L	P370470	
		Prometon	0.94	U	ng/L	P370470	
		Prometryn	0.21	U	ng/L	P370470	
		Simazine	0.52	U	ng/L	P370470	
		Tebuconazole**	0.52	U	ng/L	P370470	

Field ID: G4CE0167

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2118221	EPA 8270E	Terbufos	0.10	U	ng/L	P370470	
		Terbutylazine	0.44	U	ng/L	P370470	
2118222	EPA 200.7 Rev. 4.4	Barium	10.8		ug/L	P370724	
		Calcium	12.1		mg/L	P370724	
		Iron	590		ug/L	P370724	
		Magnesium	2.67		mg/L	P370724	
		Potassium	2.0		mg/L	P370724	
		Sodium	10.9		mg/L	P370724	
		Zinc	5.0	U	ug/L	P370724	
		Aluminum	216		ug/L	P370724	
	EPA 200.8 Rev. 5.4	Antimony	0.062	I	ug/L	P370724	
		Arsenic	0.57		ug/L	P370724	
		Boron**	31.1		ug/L	P370724	
		Cadmium	0.020	U	ug/L	P370724	
		Chromium	0.49	I	ug/L	P370724	
		Copper	0.40	U	ug/L	P370724	
		Lead	0.34	I	ug/L	P370724	
		Nickel	0.50	U	ug/L	P370724	
		Selenium	0.20	U	ug/L	P370724	
		Silver	0.010	U	ug/L	P370724	
		Thallium	0.10	U	ug/L	P370724	

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: J - second source check standards for some analytes were not available for analysis. MS accuracy for bentazon, imazapyr and 2,4-D could not be assessed due to high concentration of parameter in the spiked sample. Refer to the narrative for an explanation of QC Codes.

EPA 8270E: MS accuracy for simazine, atrazine, hexazinone, and fipronil sulfone not assessed due to high content of these parameters in the sample spiked. Refer to the narrative for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P370499

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P370724

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

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P370724

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P370812

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P370815

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P370765

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P370750

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P370555

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P370645

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P370500

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

Reference Method: EPA 8270E
Batch ID: P370470

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	5.0	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Cyanazine	3.2	U	ng/L
Demeton	7.0	U	ng/L
Diazinon	0.12	U	ng/L
Dimethenamid	0.10	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.10	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Fenamiphos	0.50	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.30	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
Batch ID: P370470

Component	Result	Code	Units
Metolachlor	0.50	U	ng/L
Metribuzin	0.75	U	ng/L
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.10	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Simazine	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L

Reference Method: EPA 8270E
Batch ID: P370542

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
 Batch ID: P370542

Component	Result	Code	Units
Trans-Nonachlor	1.0	U	ng/L
Trifluralin	2.5	U	ng/L

Reference Method: EPA 8276
 Batch ID: P370542

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

Reference Method: EPA 8321B
 Batch ID: P370422

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
Acetamiprid	0.0020	U	ug/L
Afidopyropen	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
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Clothianidin	0.0020	U	ug/L
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
MCP	0.0020	U	ug/L
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Oxamyl	0.0020	U	ug/L
Primidone	0.0040	U	ug/L
Propoxur	0.0020	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P370512

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
Batch ID: P370530

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P371031

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

Reference Method: SM 2540 C-97
Batch ID: P371182

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P371156

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P371509

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P370754

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: P370724

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	91.9		P	85 - 115
Calcium	104		P	85 - 115
Iron	100		P	85 - 115
Magnesium	99.8		P	85 - 115
Potassium	98.5		P	85 - 115
Sodium	101		P	85 - 115
Zinc	99.0		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P370724

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	98.1		P	85 - 115
Antimony	95.4		P	85 - 115
Arsenic	99.5		P	85 - 115
Boron	97.8		P	85 - 115
Cadmium	96.6		P	85 - 115
Chromium	90.4		P	85 - 115
Copper	90.6		P	85 - 115
Lead	89.4		P	85 - 115
Nickel	96.5		P	85 - 115
Selenium	97.8		P	85 - 115
Silver	94.4		P	85 - 115
Thallium	102		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P370812

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P370815

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P370765

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P370750

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P370555

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P370645

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	99.6		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P370500

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

Reference Method: EPA 8270E
 Batch ID: P370470

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	91.4	97.0	P/P	69 - 122
Alachlor	88.6	94.1	P/P	71 - 120
Ametryn	87.4	84.0	P/P	47 - 138
Atrazine	97.5	99.4	P/P	74 - 124
Atrazine Desethyl	103	80.1	P/P	38 - 138
Azinphos Methyl	108	108	P/P	69 - 154
Bromacil	66.7	83.1	P/P	39 - 121
Butylate	59.1	64.1	P/P	27 - 87.0
Chlorpyrifos Ethyl	93.7	103	P/P	69 - 118
Chlorpyrifos Methyl	98.8	94.0	P/P	70 - 120
Cyanazine	156	108	P/P	20 - 250
Demeton	66.3	65.2	P/P	39 - 118
Diazinon	100	91.8	P/P	68 - 127
Dimethenamid	87.7	97.1	P/P	66 - 125
Disulfoton	96.0	79.2	P/P	52 - 126
Dithiopyr	88.6	94.1	P/P	67 - 127
EPTC	58.7	67.5	P/P	24 - 88.0
Ethion	94.2	106	P/P	51 - 132
Ethoprop	90.6	85.6	P/P	58 - 117
Fenamiphos	89.6	95.7	P/P	38 - 139
Fipronil	79.7	96.3	P/P	61 - 124
Fipronil Desulfinyl	80.0	92.2	P/P	47 - 120
Fipronil Sulfide	83.0	97.2	P/P	56 - 119
Fipronil Sulfone	75.3	96.4	P/P	50 - 117
Fonofos	94.1	82.5	P/P	60 - 121
Hexazinone	99.5	107	P/P	55 - 137
Malathion	99.2	98.5	P/P	66 - 126
Metalaxyl	90.9	97.7	P/P	33 - 140
Metolachlor	83.3	100	P/P	69 - 119
Metribuzin	168	101	P/P	31 - 238
Mevinphos	82.7	85.5	P/P	42 - 113
Molinate	76.1	74.4	P/P	32 - 96.0
Norflurazon	84.5	96.9	P/P	54 - 123
Oxadiazon	90.3	103	P/P	63 - 128

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P370470

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Parathion Ethyl	91.9	94.5	P/P	72 - 111
Parathion Methyl	100	97.7	P/P	74 - 126
Pendimethalin	91.9	90.1	P/P	61 - 131
Phorate	93.9	88.6	P/P	51 - 115
Prodiamine	83.3	84.6	P/P	38 - 144
Prometon	78.5	91.2	P/P	54 - 119
Prometryn	85.1	92.7	P/P	63 - 120
Simazine	108	102	P/P	75 - 126
Tebuconazole	75.7	96.4	P/P	20 - 119
Terbufos	94.7	84.2	P/P	64 - 116
Terbuthylazine	92.2	99.5	P/P	73 - 117

Reference Method: EPA 8270E

Batch ID: P370542

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	42.9	42.4	P/P	20 - 93.0
Alpha-BHC	117	107	P/P	55 - 133
Alpha-Chlordane	84.4	87.6	P/P	58 - 112
Beta-BHC	129	122	P/P	54 - 168
Bifenthrin	71.6	84.5	P/P	30 - 134
Carbophenothion	52.0	49.8	P/P	26 - 147
Chlorothalonil	115	120	P/P	20 - 155
Cis-Nonachlor	84.0	88.0	P/P	54 - 115
Cypermethrin	85.2	95.1	P/P	40 - 137
DDD-p,p'	92.3	93.1	P/P	65 - 129
DDE-p,p'	83.4	87.7	P/P	57 - 116
DDT-p,p'	98.2	103	P/P	53 - 133
Delta-BHC	127	119	P/P	59 - 178
Dicofol	78.8	74.1	P/P	24 - 138
Dieldrin	87.6	91.0	P/P	60 - 120
Endosulfan I	95.7	98.4	P/P	64 - 118
Endosulfan II	97.0	103	P/P	58 - 142
Endosulfan Sulfate	110	111	P/P	60 - 127
Endrin	99.5	105	P/P	59 - 122
Endrin Aldehyde	113	110	P/P	49 - 132
Endrin Ketone	106	107	P/P	64 - 121
Ethalfuralin	90.2	91.8	P/P	60 - 126
Gamma-BHC	126	116	P/P	57 - 154
Gamma-Chlordane	74.7	78.0	P/P	56 - 110
Heptachlor	69.5	71.5	P/P	46 - 96.0
Heptachlor Epoxide	88.9	91.1	P/P	61 - 112
Hexachlorobenzene	83.7	84.9	P/P	44 - 98.0
Methoxychlor	124	124	P/P	63 - 134
Mirex	55.8	63.3	P/P	45 - 100
Permethrin	71.6	76.1	P/P	53 - 115
Trans-Nonachlor	75.0	78.3	P/P	47 - 110
Trifluralin	91.1	93.2	P/P	39 - 142

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8276

Batch ID: P370542

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	82.3	77.6	P/P	43 - 128
Toxaphene	70.1	66.4	P/P	38 - 140

Reference Method: EPA 8321B

Batch ID: P370422

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	146		P	40 - 160
3-Hydroxycarbofuran	109		P	40 - 160
Acetaminophen	90.0		P	30 - 160
Acetamiprid	100		P	40 - 160
Afidopyropen	111		P	40 - 160
Aldicarb	113		P	30 - 160
Aldicarb Sulfone	105		P	40 - 160
Aldicarb Sulfoxide	105		P	40 - 160
Bentazon	134		P	30 - 160
Benzovindiflupyr	88.4		P	40 - 160
Carbamazepine	107		P	40 - 160
Carbaryl	113		P	40 - 160
Carbofuran	93.0		P	40 - 160
Clothianidin	90.4		P	40 - 160
Dinotefuran	92.6		P	40 - 160
Diuron	126		P	40 - 160
Fenuron	104		P	40 - 160
Fluridone	98.3		P	40 - 160
Hydrocodone	93.6		P	40 - 160
Ibuprofen	91.8		P	30 - 160
Imazapyr	97.2		P	40 - 160
Imidacloprid	105		P	40 - 160
Linuron	73.5		P	40 - 160
Mandestrobin	94.6		P	40 - 160
MCPP	165		F	40 - 160
Methiocarb	80.4		P	40 - 160
Methomyl	90.6		P	40 - 160
Naproxen	104		P	40 - 160
Oxamyl	112		P	40 - 160
Primidone	85.1		P	40 - 160
Propoxur	95.4		P	40 - 160
Pyraclostrobin	87.0		P	30 - 160
Thiamethoxam	109		P	40 - 160
Tolfenpyrad	63.5		P	40 - 160
Triclopyr	118		P	30 - 160

Reference Method: EPA 8321B

Batch ID: P370512

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	128		P	40 - 150
AMPA	122		P	40 - 150
Endothall	94.1		P	40 - 150
Glufosinate	119		P	40 - 150
Glyphosate	123		P	40 - 140

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P370512

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	146		P	40 - 150

Reference Method: SM 2120 B
Batch ID: P370530

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

Reference Method: SM 2320 B-97
Batch ID: P371031

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	98 - 106

Reference Method: SM 4500 F-C-97
Batch ID: P371509

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	95.7		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P370754

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	102		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P370724

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2118069	Barium	99.5	101	P/P	80 - 120
2118069	Calcium	104		P	80 - 120
2118069	Iron	103	103	P/P	80 - 120
2118069	Magnesium	103	101	P/P	80 - 120
2118069	Potassium	106	106	P/P	80 - 120
2118069	Sodium	102		P	80 - 120
2118069	Zinc	101	98.8	P/P	80 - 120
2118292	Barium	98.5		P	80 - 120
2118292	Calcium	105		P	80 - 120
2118292	Iron	104		P	80 - 120
2118292	Magnesium	104		P	80 - 120
2118292	Potassium	103		P	80 - 120
2118292	Sodium	109		P	80 - 120
2118292	Zinc	101		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P370724

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2118069	Aluminum	98.8	98.0	P/P	80 - 120
2118069	Antimony	94.0	97.4	P/P	80 - 120
2118069	Arsenic	96.1	97.1	P/P	80 - 120
2118069	Boron	100	100	P/P	80 - 120
2118069	Cadmium	94.2	95.4	P/P	80 - 120
2118069	Chromium	91.8	92.9	P/P	80 - 120
2118069	Copper	91.6	93.4	P/P	80 - 120
2118069	Lead	90.6	92.0	P/P	80 - 120
2118069	Nickel	94.0	94.6	P/P	80 - 120
2118069	Selenium	95.5	95.2	P/P	80 - 120
2118069	Silver	94.0	95.3	P/P	80 - 120
2118069	Thallium	103	105	P/P	80 - 120
2118292	Aluminum	95.9		P	80 - 120
2118292	Antimony	98.5		P	80 - 120
2118292	Arsenic	92.8		P	80 - 120
2118292	Boron	101		P	80 - 120
2118292	Cadmium	93.4		P	80 - 120
2118292	Chromium	89.8		P	80 - 120
2118292	Copper	87.7		P	80 - 120
2118292	Lead	89.9		P	80 - 120
2118292	Nickel	89.0		P	80 - 120
2118292	Selenium	92.6		P	80 - 120
2118292	Silver	94.9		P	80 - 120
2118292	Thallium	101		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P370812

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2118065	Chloride	103	104	P/P	90 - 110
2118275	Chloride	101		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P370815

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2118065	Sulfate	103	105	P/P	90 - 110
2118275	Sulfate	102		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P370765

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2118269	Ammonia-N	101	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P370750

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2118725	Kjeldahl Nitrogen	101	94.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P370555

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2118053	NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P370645

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2118202	Total-P	98.3	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P370500

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2117938	O-Phosphate-P	96.4	97.4	P/P	90 - 110

Reference Method: EPA 8270E
 Batch ID: P370470

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2117895	Acetochlor	95.1	87.3	P/P	63 - 129
2117895	Alachlor	95.4	91.4	P/P	65 - 127
2117895	Ametryn	215	198	F/F	40 - 164
2117895	Atrazine Desethyl	42.7	137	P/P	14 - 157
2117895	Azinphos Methyl	94.1	92.5	P/P	49 - 180
2117895	Bromacil	58.6	94.2	P/P	48 - 130
2117895	Butylate	61.8	71.3	P/P	10 - 94.0
2117895	Chlorpyrifos Ethyl	101	91.1	P/P	58 - 123
2117895	Chlorpyrifos Methyl	95.4	96.8	P/P	58 - 125
2117895	Cyanazine	89.8	155	P/P	24 - 253
2117895	Demeton	81.2	99.0	P/P	25 - 149
2117895	Diazinon	111	107	P/P	59 - 144
2117895	Dimethenamid	86.2	68.3	P/P	46 - 139
2117895	Disulfoton	105	109	P/P	54 - 132
2117895	Dithiopyr	90.4	83.3	P/P	64 - 130

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
 Batch ID: P370470

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2117895	EPTC	61.5	72.9	P/P	10 - 92.0
2117895	Ethion	89.0	84.3	P/P	30 - 148
2117895	Ethoprop	99.3	120	P/P	50 - 130
2117895	Fenamiphos	30.8	34.3	F/F	49 - 142
2117895	Fipronil	46.5	85.0	P/P	46 - 140
2117895	Fipronil Desulfinyl	36.7	83.2	P/P	30 - 121
2117895	Fipronil Sulfide	13.0	88.8	F/P	31 - 136
2117895	Fonofos	101	110	P/P	55 - 129
2117895	Malathion	89.4	89.9	P/P	56 - 135
2117895	Metalaxyl	92.3	85.3	P/P	54 - 135
2117895	Metolachlor	98.6	79.6	P/P	51 - 140
2117895	Metribuzin	180	224	P/P	45 - 254
2117895	Mevinphos	90.4	97.9	P/P	33 - 131
2117895	Molinate	80.5	82.2	P/P	14 - 98.0
2117895	Norflurazon	40.1	85.2	P/P	34 - 136
2117895	Oxadiazon	95.5	72.2	P/P	67 - 116
2117895	Parathion Ethyl	91.7	98.3	P/P	66 - 118
2117895	Parathion Methyl	99.8	109	P/P	64 - 136
2117895	Pendimethalin	95.9	95.0	P/P	59 - 144
2117895	Phorate	88.5	100	P/P	42 - 130
2117895	Prodiamine	83.2	83.8	P/P	42 - 148
2117895	Prometon	81.1	77.6	P/P	59 - 134
2117895	Prometryn	87.1	83.2	P/P	54 - 135
2117895	Tebuconazole	13.8	11.1	P/P	10 - 131
2117895	Terbufos	105	116	P/P	57 - 131
2117895	Terbutylazine	97.9	99.4	P/P	68 - 125

Reference Method: EPA 8270E
 Batch ID: P370542

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2118790	Aldrin	64.7	63.7	P/P	25 - 92.0
2118790	Alpha-BHC	135	123	P/P	48 - 150
2118790	Alpha-Chlordane	100	96.5	P/P	50 - 115
2118790	Beta-BHC	147	136	P/P	39 - 184
2118790	Bifenthrin	96.3	94.6	P/P	46 - 116
2118790	Carbophenothion	99.7	93.7	P/P	27 - 180
2118790	Chlorothalonil	160	123	P/P	10 - 216
2118790	Cis-Nonachlor	96.2	91.2	P/P	55 - 112
2118790	Cypermethrin	110	109	P/P	40 - 153
2118790	DDD-p,p'	99.8	99.2	P/P	53 - 128
2118790	DDE-p,p'	91.7	89.9	P/P	48 - 116
2118790	DDT-p,p'	121	113	P/P	47 - 128
2118790	Delta-BHC	168	163	P/P	48 - 221
2118790	Dicofol	79.8	76.3	P/P	10 - 147
2118790	Dieldrin	99.2	96.9	P/P	48 - 128
2118790	Endosulfan I	106	99.2	P/P	58 - 126
2118790	Endosulfan II	107	99.3	P/P	50 - 150
2118790	Endosulfan Sulfate	113	113	P/P	56 - 130
2118790	Endrin	115	106	P/P	50 - 126
2118790	Endrin Aldehyde	84.8	98.6	P/P	12 - 145
2118790	Endrin Ketone	111	114	P/P	59 - 132

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
 Batch ID: P370542

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2118790	Ethalfuralin	104	99.5	P/P	65 - 122
2118790	Gamma-BHC	136	128	P/P	40 - 190
2118790	Gamma-Chlordane	92.7	89.1	P/P	50 - 112
2118790	Heptachlor	80.5	77.4	P/P	41 - 98.0
2118790	Heptachlor Epoxide	105	103	P/P	55 - 117
2118790	Hexachlorobenzene	94.7	88.4	F/P	47 - 91.0
2118790	Methoxychlor	103	96.8	P/P	55 - 133
2118790	Mirex	76.7	73.8	P/P	44 - 101
2118790	Permethrin	88.6	86.5	P/P	52 - 124
2118790	Trans-Nonachlor	89.1	83.1	P/P	53 - 99.0
2118790	Trifluralin	106	102	P/P	10 - 201

Reference Method: EPA 8276
 Batch ID: P370542

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2117894	Chlordane	73.5	80.3	P/P	34 - 136
2117894	Toxaphene	59.1	61.8	P/P	22 - 152

Reference Method: EPA 8321B
 Batch ID: P370422

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2116928	3-Hydroxycarbofuran	93.4	98.9	P/P	40 - 160
2116928	Aldicarb	78.3	93.7	P/P	30 - 160
2116928	Aldicarb Sulfone	101	110	P/P	40 - 160
2116928	Aldicarb Sulfoxide	52.3	55.4	P/P	40 - 160
2116928	Carbaryl	81.7	88.9	P/P	40 - 160
2116928	Carbofuran	65.3	68.7	P/P	40 - 160
2116928	Methiocarb	64.5	70.6	P/P	40 - 160
2116928	Methomyl	69.8	76.4	P/P	40 - 160
2116928	Oxamyl	92.4	96.4	P/P	40 - 160
2116928	Propoxur	67.0	70.5	P/P	40 - 160
2118000	Acetaminophen	83.7	79.0	P/P	30 - 160
2118000	Acetamiprid	128	113	P/P	40 - 160
2118000	Afidopyropen	119	112	P/P	40 - 160
2118000	Benzovindiflupyr	105	90.5	P/P	40 - 160
2118000	Carbamazepine	101	94.5	P/P	40 - 160
2118000	Clothianidin	112	99.9	P/P	40 - 160
2118000	Dinotefuran	107	91.4	P/P	40 - 160
2118000	Diuron	115	104	P/P	40 - 160
2118000	Fenuron	102	93.6	P/P	40 - 160
2118000	Fluridone	98.7	84.2	P/P	40 - 160
2118000	Hydrocodone	110	99.8	P/P	40 - 160
2118000	Ibuprofen	85.6	75.4	P/P	30 - 160
2118000	Imidacloprid	212	176	F/F	40 - 160
2118000	Linuron	69.0	62.4	P/P	40 - 160
2118000	Mandestrobin	98.1	88.6	P/P	40 - 160
2118000	MCP	183	159	F/P	40 - 160
2118000	Naproxen	151	92.7	P/P	40 - 160
2118000	Primidone	91.8	87.6	P/P	40 - 160
2118000	Pyraclostrobin	98.0	88.1	P/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P370422

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2118000	Thiamethoxam	160	142	F/P	40 - 160
2118000	Tolfenpyrad	82.4	68.5	P/P	40 - 160
2118000	Triclopyr	160	140	P/P	30 - 160

Reference Method: EPA 8321B
Batch ID: P370512

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2117252	Acesulfame K	94.2	124	P/P	40 - 150
2117252	AMPA	68.0	69.3	P/P	40 - 150
2117252	Endothall	69.5	73.0	P/P	40 - 150
2117252	Glufosinate	94.6	93.8	P/P	40 - 150
2117252	Glyphosate	123	113	P/P	40 - 140
2117252	Sucralose	165	153	F/F	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P371509

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2119156	Fluoride	97.0	97.0	P/P	89 - 106

Reference Method: SM 5310 B-00
Batch ID: P370754

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2118256	Organic Carbon	103	104	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P370499

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2118255	Turbidity	6.45	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P370724

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2118069	Barium	1.09	Spike	P	0 - 20
2118069	Calcium	0.361	Spike	P	0 - 20
2118069	Iron	0.208	Spike	P	0 - 20
2118069	Magnesium	1.47	Spike	P	0 - 20
2118069	Potassium	0.181	Spike	P	0 - 20
2118069	Sodium	1.32	Spike	P	0 - 20
2118069	Zinc	2.26	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P370724

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2118069	Aluminum	0.651	Spike	P	0 - 20
2118069	Antimony	3.55	Spike	P	0 - 20
2118069	Arsenic	0.990	Spike	P	0 - 20
2118069	Boron	0.204	Spike	P	0 - 20
2118069	Cadmium	1.31	Spike	P	0 - 20
2118069	Chromium	1.28	Spike	P	0 - 20
2118069	Copper	1.98	Spike	P	0 - 20
2118069	Lead	1.56	Spike	P	0 - 20
2118069	Nickel	0.604	Spike	P	0 - 20
2118069	Selenium	0.352	Spike	P	0 - 20
2118069	Silver	1.45	Spike	P	0 - 20
2118069	Thallium	1.76	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P370812

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2118065	Chloride	0.959	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P370815

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2118065	Sulfate	1.67	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P370765

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2118269	Ammonia-N	0.463	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P370750

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2118725	Kjeldahl Nitrogen	4.45	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P370555

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2118053	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P370645

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2118202	Total-P	2.16	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P370500

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2117938	O-Phosphate-P	0.876	Spike	P	0 - 20

Reference Method: EPA 8270E
 Batch ID: P370470

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2117895	Acetochlor	8.55	Spike	P	0 - 30
2117895	Alachlor	4.30	Spike	P	0 - 30
2117895	Ametryn	8.39	Spike	P	0 - 30
2117895	Atrazine	7.43	Spike	P	0 - 30
2117895	Atrazine Desethyl	52.2	Spike	F	0 - 30
2117895	Azinphos Methyl	1.75	Spike	P	0 - 30
2117895	Bromacil	25.8	Spike	P	0 - 30
2117895	Butylate	14.3	Spike	P	0 - 30
2117895	Chlorpyrifos Ethyl	9.98	Spike	P	0 - 30
2117895	Chlorpyrifos Methyl	1.45	Spike	P	0 - 30
2117895	Cyanazine	53.1	Spike	F	0 - 30
2117895	Demeton	19.7	Spike	P	0 - 30
2117895	Diazinon	3.23	Spike	P	0 - 30
2117895	Dimethenamid	20.0	Spike	P	0 - 30
2117895	Disulfoton	4.29	Spike	P	0 - 30
2117895	Dithiopyr	7.47	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P370470

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2117895	EPTC	17.1	Spike	P	0 - 30
2117895	Ethion	5.41	Spike	P	0 - 30
2117895	Ethoprop	18.9	Spike	P	0 - 30
2117895	Fenamiphos	10.7	Spike	P	0 - 30
2117895	Fipronil	46.2	Spike	F	0 - 30
2117895	Fipronil Desulfinyl	51.0	Spike	F	0 - 30
2117895	Fipronil Sulfide	50.2	Spike	F	0 - 30
2117895	Fipronil Sulfone	49.7	Spike	F	0 - 30
2117895	Fonofos	8.55	Spike	P	0 - 30
2117895	Hexazinone	21.5	Spike	P	0 - 30
2117895	Malathion	0.466	Spike	P	0 - 30
2117895	Metaxyl	7.90	Spike	P	0 - 30
2117895	Metolachlor	14.1	Spike	P	0 - 30
2117895	Metribuzin	20.3	Spike	P	0 - 30
2117895	Mevinphos	7.97	Spike	P	0 - 30
2117895	Molinate	2.10	Spike	P	0 - 30
2117895	Norflurazon	72.0	Spike	F	0 - 30
2117895	Oxadiazon	18.0	Spike	P	0 - 30
2117895	Parathion Ethyl	6.92	Spike	P	0 - 30
2117895	Parathion Methyl	9.04	Spike	P	0 - 30
2117895	Pendimethalin	0.934	Spike	P	0 - 30
2117895	Phorate	10.8	Spike	P	0 - 30
2117895	Prodiamine	0.719	Spike	P	0 - 30
2117895	Prometon	3.32	Spike	P	0 - 30
2117895	Prometryn	4.56	Spike	P	0 - 30
2117895	Simazine	12.3	Spike	P	0 - 30
2117895	Tebuconazole	12.5	Spike	P	0 - 30
2117895	Terbufos	9.97	Spike	P	0 - 30
2117895	Terbutylazine	1.58	Spike	P	0 - 30
LFB	Acetochlor	6.00	LCS	P	0 - 30
LFB	Alachlor	5.97	LCS	P	0 - 30
LFB	Ametryn	4.03	LCS	P	0 - 30
LFB	Atrazine	1.90	LCS	P	0 - 30
LFB	Atrazine Desethyl	25.4	LCS	P	0 - 30
LFB	Azinphos Methyl	0.0515	LCS	P	0 - 30
LFB	Bromacil	21.9	LCS	P	0 - 30
LFB	Butylate	8.06	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	9.34	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	5.02	LCS	P	0 - 30
LFB	Cyanazine	36.4	LCS	F	0 - 30
LFB	Demeton	1.56	LCS	P	0 - 30
LFB	Diazinon	8.58	LCS	P	0 - 30
LFB	Dimethenamid	10.2	LCS	P	0 - 30
LFB	Disulfoton	19.1	LCS	P	0 - 30
LFB	Dithiopyr	5.94	LCS	P	0 - 30
LFB	EPTC	13.9	LCS	P	0 - 30
LFB	Ethion	12.1	LCS	P	0 - 30
LFB	Ethoprop	5.63	LCS	P	0 - 30
LFB	Fenamiphos	6.58	LCS	P	0 - 30
LFB	Fipronil	18.8	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	14.2	LCS	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P370470

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Fipronil Sulfide	15.8	LCS	P	0 - 30
LFB	Fipronil Sulfone	24.6	LCS	P	0 - 30
LFB	Fonofos	13.1	LCS	P	0 - 30
LFB	Hexazinone	7.31	LCS	P	0 - 30
LFB	Malathion	0.766	LCS	P	0 - 30
LFB	Metalaxyl	7.21	LCS	P	0 - 30
LFB	Metolachlor	18.4	LCS	P	0 - 30
LFB	Metribuzin	50.1	LCS	F	0 - 30
LFB	Mevinphos	3.33	LCS	P	0 - 30
LFB	Molinate	2.27	LCS	P	0 - 30
LFB	Norflurazon	13.7	LCS	P	0 - 30
LFB	Oxadiazon	13.1	LCS	P	0 - 30
LFB	Parathion Ethyl	2.79	LCS	P	0 - 30
LFB	Parathion Methyl	2.58	LCS	P	0 - 30
LFB	Pendimethalin	1.92	LCS	P	0 - 30
LFB	Phorate	5.80	LCS	P	0 - 30
LFB	Prodiamine	1.57	LCS	P	0 - 30
LFB	Prometon	15.0	LCS	P	0 - 30
LFB	Prometryn	8.58	LCS	P	0 - 30
LFB	Simazine	5.61	LCS	P	0 - 30
LFB	Tebuconazole	24.1	LCS	P	0 - 30
LFB	Terbufos	11.8	LCS	P	0 - 30
LFB	Terbuthylazine	7.68	LCS	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P370542

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2118790	Aldrin	1.58	Spike	P	0 - 30
2118790	Alpha-BHC	9.31	Spike	P	0 - 30
2118790	Alpha-Chlordane	3.55	Spike	P	0 - 30
2118790	Beta-BHC	7.53	Spike	P	0 - 30
2118790	Bifenthrin	1.74	Spike	P	0 - 30
2118790	Carbophenothion	6.24	Spike	P	0 - 30
2118790	Chlorothalonil	26.2	Spike	P	0 - 30
2118790	Cis-Nonachlor	5.35	Spike	P	0 - 30
2118790	Cypermethrin	1.31	Spike	P	0 - 30
2118790	DDD-p,p'	0.668	Spike	P	0 - 30
2118790	DDE-p,p'	2.06	Spike	P	0 - 30
2118790	DDT-p,p'	6.21	Spike	P	0 - 30
2118790	Delta-BHC	3.17	Spike	P	0 - 30
2118790	Dicofol	4.52	Spike	P	0 - 30
2118790	Dieldrin	2.30	Spike	P	0 - 30
2118790	Endosulfan I	6.28	Spike	P	0 - 30
2118790	Endosulfan II	7.62	Spike	P	0 - 30
2118790	Endosulfan Sulfate	0.622	Spike	P	0 - 30
2118790	Endrin	7.88	Spike	P	0 - 30
2118790	Endrin Aldehyde	15.0	Spike	P	0 - 30
2118790	Endrin Ketone	3.33	Spike	P	0 - 30
2118790	Ethalfuralin	4.33	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P370542

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2118790	Gamma-BHC	6.24	Spike	P	0 - 30
2118790	Gamma-Chlordane	3.99	Spike	P	0 - 30
2118790	Heptachlor	3.91	Spike	P	0 - 30
2118790	Heptachlor Epoxide	1.91	Spike	P	0 - 30
2118790	Hexachlorobenzene	6.87	Spike	P	0 - 30
2118790	Methoxychlor	5.72	Spike	P	0 - 30
2118790	Mirex	3.87	Spike	P	0 - 30
2118790	Permethrin	2.38	Spike	P	0 - 30
2118790	Trans-Nonachlor	6.98	Spike	P	0 - 30
2118790	Trifluralin	3.64	Spike	P	0 - 30
LFB	Aldrin	0.985	LCS	P	0 - 30
LFB	Alpha-BHC	9.63	LCS	P	0 - 30
LFB	Alpha-Chlordane	3.71	LCS	P	0 - 30
LFB	Beta-BHC	5.60	LCS	P	0 - 30
LFB	Bifenthrin	16.5	LCS	P	0 - 30
LFB	Carbophenothion	4.16	LCS	P	0 - 30
LFB	Chlorothalonil	3.71	LCS	P	0 - 30
LFB	Cis-Nonachlor	4.68	LCS	P	0 - 30
LFB	Cypermethrin	11.0	LCS	P	0 - 30
LFB	DDD-p,p'	0.787	LCS	P	0 - 30
LFB	DDE-p,p'	4.95	LCS	P	0 - 30
LFB	DDT-p,p'	4.47	LCS	P	0 - 30
LFB	Delta-BHC	6.23	LCS	P	0 - 30
LFB	Dicofol	6.04	LCS	P	0 - 30
LFB	Dieldrin	3.85	LCS	P	0 - 30
LFB	Endosulfan I	2.76	LCS	P	0 - 30
LFB	Endosulfan II	5.98	LCS	P	0 - 30
LFB	Endosulfan Sulfate	0.633	LCS	P	0 - 30
LFB	Endrin	5.32	LCS	P	0 - 30
LFB	Endrin Aldehyde	1.86	LCS	P	0 - 30
LFB	Endrin Ketone	0.390	LCS	P	0 - 30
LFB	Ethalfuralin	1.77	LCS	P	0 - 30
LFB	Gamma-BHC	7.51	LCS	P	0 - 30
LFB	Gamma-Chlordane	4.31	LCS	P	0 - 30
LFB	Heptachlor	2.88	LCS	P	0 - 30
LFB	Heptachlor Epoxide	2.46	LCS	P	0 - 30
LFB	Hexachlorobenzene	1.44	LCS	P	0 - 30
LFB	Methoxychlor	0.550	LCS	P	0 - 30
LFB	Mirex	12.6	LCS	P	0 - 30
LFB	Permethrin	6.08	LCS	P	0 - 30
LFB	Trans-Nonachlor	4.28	LCS	P	0 - 30
LFB	Trifluralin	2.26	LCS	P	0 - 30

Reference Method: EPA 8276

Batch ID: P370542

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2117894	Chlordane	8.88	Spike	P	0 - 30
2117894	Toxaphene	4.58	Spike	P	0 - 30
LFB	Chlordane	5.87	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P370542

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Toxaphene	5.45	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P370422

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2116928	3-Hydroxycarbofuran	5.71	Spike	P	0 - 30
2116928	Aldicarb	17.8	Spike	P	0 - 30
2116928	Aldicarb Sulfone	7.96	Spike	P	0 - 30
2116928	Aldicarb Sulfoxide	5.81	Spike	P	0 - 30
2116928	Carbaryl	8.44	Spike	P	0 - 30
2116928	Carbofuran	5.11	Spike	P	0 - 30
2116928	Methiocarb	9.03	Spike	P	0 - 30
2116928	Methomyl	8.99	Spike	P	0 - 30
2116928	Oxamyl	4.25	Spike	P	0 - 30
2116928	Propoxur	5.05	Spike	P	0 - 30
2118000	2,4-D	14.5	Spike	P	0 - 30
2118000	Acetaminophen	5.77	Spike	P	0 - 30
2118000	Acetamiprid	12.5	Spike	P	0 - 30
2118000	Afidopyropen	5.78	Spike	P	0 - 30
2118000	Bentazon	9.69	Spike	P	0 - 30
2118000	Benzovindiflupyr	14.5	Spike	P	0 - 30
2118000	Carbamazepine	6.54	Spike	P	0 - 30
2118000	Clothianidin	11.3	Spike	P	0 - 30
2118000	Dinotefuran	15.6	Spike	P	0 - 30
2118000	Diuron	8.54	Spike	P	0 - 30
2118000	Fenuron	8.26	Spike	P	0 - 30
2118000	Fluridone	12.2	Spike	P	0 - 30
2118000	Hydrocodone	9.97	Spike	P	0 - 30
2118000	Ibuprofen	12.7	Spike	P	0 - 30
2118000	Imazapyr	10.8	Spike	P	0 - 30
2118000	Imidacloprid	15.6	Spike	P	0 - 30
2118000	Linuron	10.0	Spike	P	0 - 30
2118000	Mandestrobin	10.3	Spike	P	0 - 30
2118000	MCP	13.3	Spike	P	0 - 30
2118000	Naproxen	47.6	Spike	F	0 - 30
2118000	Primidone	4.67	Spike	P	0 - 30
2118000	Pyraclostrobin	10.6	Spike	P	0 - 30
2118000	Thiamethoxam	12.2	Spike	P	0 - 30
2118000	Tolfenpyrad	18.3	Spike	P	0 - 30
2118000	Triclopyr	13.6	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P370512

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2117252	Acesulfame K	25.8	Spike	P	0 - 30
2117252	AMPA	0.691	Spike	P	0 - 30
2117252	Endothall	4.86	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
 Batch ID: P370512

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2117252	Glufosinate	0.774	Spike	P	0 - 30
2117252	Glyphosate	3.36	Spike	P	0 - 30
2117252	Sucralose	6.19	Spike	P	0 - 30

Reference Method: SM 2120 B
 Batch ID: P370530

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2117500	Color (true)	0.131	Sample	P	0 - 20

Reference Method: SM 2320 B-97
 Batch ID: P371031

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2119156	Total Alkalinity	1.59	Sample	P	0 - 2.8

Reference Method: SM 2540 C-97
 Batch ID: P371182

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2118204	TDS	7.41	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
 Batch ID: P371509

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2119156	Fluoride	0.0	Spike	P	0 - 2.5

Reference Method: SM 5310 B-00
 Batch ID: P370754

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2118256	Organic Carbon	0.378	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: 2118214
Field Sample ID: G4CE0167

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	86.1	P	30 - 160

Lab Sample ID: 2118215
Field Sample ID: G4CE0167

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	129	P	30 - 160
EPA 8321B	Acetaminophen-d4	78.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	79.6	P	30 - 160
EPA 8321B	Diuron-d6	77.9	P	30 - 160
EPA 8321B	Endothall-d6	100	P	30 - 160
EPA 8321B	Endothall-d6	100	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	81.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	81.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	75.6	P	30 - 160
EPA 8321B	Primidone-d5	74.4	P	30 - 160
EPA 8321B	Sucralose-d6	132	P	30 - 160
EPA 8321B	Sucralose-d6	132	P	30 - 160

Lab Sample ID: 2118220
Field Sample ID: G4CE0167

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	96.1	P	39 - 109
EPA 8270E	Tetrachloro-m-xylene	61.4	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	48.8	P	30 - 103
EPA 8276	PCNB	109	P	37 - 143

Lab Sample ID: 2118221
Field Sample ID: G4CE0167

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	113	P	68 - 130
EPA 8270E	Terbufos-d10	76.6	P	61 - 136

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A94136

Included Lab Sample IDs: 2118201

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A94137

Included Lab Sample IDs: 2118203

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.9	100	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A94152

Included Lab Sample IDs: 2118201

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A94154

Included Lab Sample IDs: 2118202

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A94159

Included Lab Sample IDs: 2118201

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	103	102	P/P	90 - 110
Sulfate	105	104	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A94238

Included Lab Sample IDs: 2118215

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	117	113	P/P	60 - 160
Glufosinate	120	122	P/P	60 - 160
Glyphosate	120	121	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A94243

Included Lab Sample IDs: 2118215

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	125	127	P/P	60 - 160
Endothall	104	106	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A94245

Included Lab Sample IDs: 2118202

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

Reference Method: SM 5310 B-00

Run ID: A94255

Included Lab Sample IDs: 2118202

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A94258

Included Lab Sample IDs: 2118202

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A94285

Included Lab Sample IDs: 2118222

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	96.0	98.5	P/P	90 - 110
Calcium	97.7	99.7	P/P	90 - 110
Iron	99.1	98.8	P/P	90 - 110
Magnesium	97.4	97.5	P/P	90 - 110
Potassium	98.1	98.5	P/P	90 - 110
Sodium	97.4	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A94318

Included Lab Sample IDs: 2118202

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.3	90.6	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A94322

Included Lab Sample IDs: 2118222

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

Reference Method: SM 2320 B-97

Run ID: A94353

Included Lab Sample IDs: 2118201

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	105	102	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A94386

Included Lab Sample IDs: 2118222

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	100	102	P/P	90 - 110
Arsenic	96.6	95.0	P/P	90 - 110
Boron	96.3	105	P/P	90 - 110
Cadmium	96.1	95.9	P/P	90 - 110
Nickel	96.7	95.1	P/P	90 - 110
Selenium	96.3	96.0	P/P	90 - 110
Thallium	95.2	95.0	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A94396

Included Lab Sample IDs: 2118220

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	104		P	80 - 120
Toxaphene	95.0		P	80 - 120

Reference Method: EPA 8321B

Run ID: A94400

Included Lab Sample IDs: 2118215

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	108	111	P/P	50 - 150
3-Hydroxycarbofuran	120	112	P/P	60 - 150
Acetaminophen	109	105	P/P	60 - 160
Acetamiprid	114	112	P/P	50 - 150
Afidopyropen	119	132	P/P	50 - 150
Aldicarb	129	119	P/P	60 - 150
Aldicarb Sulfone	101	108	P/P	50 - 150
Aldicarb Sulfoxide	114	112	P/P	50 - 150
Bentazon	103	100	P/P	50 - 160
Benzovindiflupyr	104	106	P/P	50 - 150
Carbamazepine	109	105	P/P	60 - 150
Carbaryl	128	130	P/P	60 - 150
Carbofuran	117	116	P/P	50 - 150
Clothianidin	95.7	101	P/P	60 - 150
Dinotefuran	106	96.7	P/P	50 - 150
Diuron	135	132	P/P	60 - 150
Fenuron	112	111	P/P	60 - 150
Fluridone	108	108	P/P	60 - 160
Hydrocodone	110	108	P/P	60 - 150
Ibuprofen	68.1	77.6	P/P	50 - 160
Imazapyr	90.0	101	P/P	50 - 150
Imidacloprid	99.9	94.9	P/P	60 - 150
Linuron	99.8	99.1	P/P	60 - 150
Mandestrobin	111	111	P/P	50 - 150
MCPP	88.8	90.9	P/P	50 - 150
Methiocarb	101	101	P/P	50 - 150
Methomyl	112	112	P/P	50 - 150
Naproxen	93.5	125	P/P	50 - 160
Oxamyl	115	121	P/P	50 - 150
Primidone	98.1	90.8	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A94400

Included Lab Sample IDs: 2118214

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Propoxur	110	115	P/P	50 - 150
Pyraclostrobin	106	100	P/P	60 - 150
Thiamethoxam	106	103	P/P	50 - 150
Tolfenpyrad	111	110	P/P	60 - 150
Triclopyr	96.2	93.2	P/P	50 - 150

Reference Method: EPA 8270E

Run ID: A94470

Included Lab Sample IDs: 2118221

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	104		P	80 - 120
Alachlor	106		P	80 - 120
Ametryn	94.8		P	80 - 120
Atrazine	90.6		P	80 - 120
Atrazine Desethyl	95.3		P	80 - 120
Azinphos Methyl	98.3		P	80 - 120
Bromacil	102		P	80 - 120
Butylate	95.3		P	80 - 120
Chlorpyrifos Ethyl	98.3		P	80 - 120
Chlorpyrifos Methyl	99.9		P	80 - 120
Cyanazine	84.2		P	80 - 120
Demeton	85.7		P	80 - 120
Diazinon	104		P	80 - 120
Dimethenamid	105		P	80 - 120
Disulfoton	98.7		P	80 - 120
Dithiopyr	104		P	80 - 120
EPTC	99.9		P	80 - 120
Ethion	97.2		P	80 - 120
Ethoprop	98.0		P	80 - 120
Fenamiphos	94.7		P	80 - 120
Fipronil	101		P	80 - 120
Fipronil Desulfinyl	105		P	80 - 120
Fipronil Sulfide	96.7		P	80 - 120
Fipronil Sulfone	96.6		P	80 - 120
Fonofos	96.5		P	80 - 120
Hexazinone	100		P	80 - 120
Malathion	96.3		P	80 - 120
Metaxyl	104		P	80 - 120
Metolachlor	108		P	80 - 120
Metribuzin	96.2		P	80 - 120
Mevinphos	100		P	80 - 120
Molinate	99.8		P	80 - 120
Norflurazon	103		P	80 - 120
Oxadiazon	108		P	80 - 120
Parathion Ethyl	98.2		P	80 - 120
Parathion Methyl	99.0		P	80 - 120
Pendimethalin	96.6		P	80 - 120
Phorate	95.1		P	80 - 120
Prodiamine	95.4		P	80 - 120
Prometon	102		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A94470

Included Lab Sample IDs: 2118221

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Prometryn	104		P	80 - 120
Simazine	97.8		P	80 - 120
Tebuconazole	104		P	80 - 120
Terbufos	96.6		P	80 - 120
Terbutylazine	99.2		P	80 - 120

Reference Method: EPA 8270E

Run ID: A94482

Included Lab Sample IDs: 2118220

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	107		P	80 - 120
Alpha-BHC	115		P	80 - 120
Alpha-Chlordane	107		P	80 - 120
Beta-BHC	109		P	80 - 120
Bifenthrin	107		P	80 - 120
Carbophenothion	118		P	80 - 120
Chlorothalonil	103		P	80 - 120
Cis-Nonachlor	105		P	80 - 120
Cypermethrin	108		P	80 - 120
DDD-p,p'	106		P	80 - 120
DDE-p,p'	105		P	80 - 120
DDT-p,p'	113		P	80 - 120
Delta-BHC	110		P	80 - 120
Dicofol	108		P	80 - 120
Dieldrin	94.2		P	80 - 120
Endosulfan I	107		P	80 - 120
Endosulfan II	102		P	80 - 120
Endosulfan Sulfate	105		P	80 - 120
Endrin	106		P	80 - 120
Endrin Aldehyde	103		P	80 - 120
Endrin Ketone	110		P	80 - 120
Ethalfuralin	114		P	80 - 120
Gamma-BHC	112		P	80 - 120
Gamma-Chlordane	106		P	80 - 120
Heptachlor	104		P	80 - 120
Heptachlor Epoxide	105		P	80 - 120
Hexachlorobenzene	116		P	80 - 120
Methoxychlor	112		P	80 - 120
Mirex	104		P	80 - 120
Permethrin	99.4		P	80 - 120
Trans-Nonachlor	105		P	80 - 120
Trifluralin	114		P	80 - 120

Reference Method: EPA 8321B

Run ID: A94533

Included Lab Sample IDs: 2118215

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	138	138	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A94545

Included Lab Sample IDs: 2118222

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chromium	92.8	97.1	P/P	90 - 110
Copper	93.6	96.1	P/P	90 - 110
Lead	93.4	97.8	P/P	90 - 110
Silver	94.0	98.1	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A94568

Included Lab Sample IDs: 2118201

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A94590

Included Lab Sample IDs: 2118222

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Antimony	92.6	93.2	P/P	90 - 110

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity							6.45	
EPA 200.7 Rev. 4.4	Barium	91.9		99.5	101	98.5			1.09
	Calcium	104		104	105				0.361
	Iron	100		103	103	104			0.208
	Magnesium	99.8		103	101	104			1.47
	Potassium	98.5		106	106	103			0.181
	Sodium	101		102	109				1.32
	Zinc	99.0		101	98.8	101			2.26
EPA 200.8 Rev. 5.4	Aluminum	98.1		98.8	98.0	95.9			0.651
	Antimony	95.4		94.0	97.4	98.5			3.55
	Arsenic	99.5		96.1	97.1	92.8			0.990
	Boron	97.8		100	100	101			0.204
	Cadmium	96.6		94.2	95.4	93.4			1.31
	Chromium	90.4		91.8	92.9	89.8			1.28
	Copper	90.6		91.6	93.4	87.7			1.98
	Lead	89.4		90.6	92.0	89.9			1.56
	Nickel	96.5		94.0	94.6	89.0			0.604
	Selenium	97.8		95.5	95.2	92.6			0.352
	Silver	94.4		94.0	95.3	94.9			1.45
	Thallium	102		103	105	101			1.76
EPA 300.0 Rev. 2.1	Chloride	102		103	104	101			0.959
	Sulfate	103		103	105	102			1.67
EPA 350.1 Rev. 2.0	Ammonia-N	102		101	100				0.463
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	95.0		101	94.4				4.45
EPA 353.2 Rev. 2.0	NO2NO3-N	100		104	104				0.0
EPA 365.1 Rev. 2.0	Total-P	99.6		98.3	101				2.16
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.0		96.4	97.4				0.876
EPA 8270E	Acetochlor	97.0	91.4	95.1	87.3		6.00		8.55
	Alachlor	94.1	88.6	95.4	91.4		5.97		4.30
	Aldrin	42.9	42.4	64.7	63.7		0.985		1.58
	Alpha-BHC	117	107	135	123		9.63		9.31
	Alpha-Chlordane	84.4	87.6	100	96.5		3.71		3.55
	Ametryn	84.0	87.4	215	198		4.03		8.39
	Atrazine	99.4	97.5				1.90		7.43
	Atrazine Desethyl	103	80.1	42.7	137		25.4		52.2
	Azinphos Methyl	108	108	94.1	92.5		0.0515		1.75
	Beta-BHC	129	122	147	136		5.60		7.53
	Bifenthrin	71.6	84.5	96.3	94.6		16.5		1.74
	Bromacil	66.7	83.1	58.6	94.2		21.9		25.8
	Butylate	59.1	64.1	61.8	71.3		8.06		14.3
	Carbophenothion	52.0	49.8	99.7	93.7		4.16		6.24
	Chlorothalonil	115	120	160	123		3.71		26.2
	Chlorpyrifos Ethyl	93.7	103	101	91.1		9.34		9.98
	Chlorpyrifos Methyl	94.0	98.8	95.4	96.8		5.02		1.45
	Cis-Nonachlor	84.0	88.0	96.2	91.2		4.68		5.35
	Cyanazine	108	156	89.8	155		36.4		53.1
	Cypermethrin	85.2	95.1	110	109		11.0		1.31
	DDD-p,p'	92.3	93.1	99.8	99.2		0.787		0.668
	DDE-p,p'	83.4	87.7	91.7	89.9		4.95		2.06
	DDT-p,p'	98.2	103	121	113		4.47		6.21
	Delta-BHC	127	119	168	163		6.23		3.17
	Demeton	65.2	66.3	81.2	99.0		1.56		19.7
	Diazinon	91.8	100	111	107		8.58		3.23
	Dicofol	78.8	74.1	79.8	76.3		6.04		4.52

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 8270E	Dieldrin	87.6	91.0	99.2	96.9	3.85		2.30
	Dimethenamid	97.1	87.7	86.2	68.3	10.2		20.0
	Disulfoton	79.2	96.0	105	109	19.1		4.29
	Dithiopyr	94.1	88.6	90.4	83.3	5.94		7.47
	Endosulfan I	95.7	98.4	106	99.2	2.76		6.28
	Endosulfan II	97.0	103	107	99.3	5.98		7.62
	Endosulfan Sulfate	110	111	113	113	0.633		0.622
	Endrin	99.5	105	115	106	5.32		7.88
	Endrin Aldehyde	113	110	84.8	98.6	1.86		15.0
	Endrin Ketone	106	107	111	114	0.390		3.33
	EPTC	67.5	58.7	61.5	72.9	13.9		17.1
	Ethalfuralin	90.2	91.8	104	99.5	1.77		4.33
	Ethion	106	94.2	89.0	84.3	12.1		5.41
	Ethoprop	85.6	90.6	99.3	120	5.63		18.9
	Fenamiphos	89.6	95.7	30.8	34.3	6.58		10.7
	Fipronil	96.3	79.7	46.5	85.0	18.8		46.2
	Fipronil Desulfinyl	92.2	80.0	36.7	83.2	14.2		51.0
	Fipronil Sulfide	97.2	83.0	13.0	88.8	15.8		50.2
	Fipronil Sulfone	96.4	75.3			24.6		49.7
	Fonofos	82.5	94.1	101	110	13.1		8.55
	Gamma-BHC	126	116	136	128	7.51		6.24
	Gamma-Chlordane	74.7	78.0	92.7	89.1	4.31		3.99
	Heptachlor	69.5	71.5	80.5	77.4	2.88		3.91
	Heptachlor Epoxide	88.9	91.1	105	103	2.46		1.91
	Hexachlorobenzene	83.7	84.9	94.7	88.4	1.44		6.87
	Hexazinone	107	99.5			7.31		21.5
	Malathion	99.2	98.5	89.4	89.9	0.766		0.466
	Metalaxyl	97.7	90.9	92.3	85.3	7.21		7.90
	Methoxychlor	124	124	103	96.8	0.550		5.72
	Metolachlor	100	83.3	98.6	79.6	18.4		14.1
	Metribuzin	168	101	180	224	50.1		20.3
	Mevinphos	85.5	82.7	90.4	97.9	3.33		7.97
	Mirex	55.8	63.3	76.7	73.8	12.6		3.87
	Molinate	74.4	76.1	80.5	82.2	2.27		2.10
	Norflurazon	96.9	84.5	40.1	85.2	13.7		72.0
	Oxadiazon	103	90.3	95.5	72.2	13.1		18.0
	Parathion Ethyl	94.5	91.9	91.7	98.3	2.79		6.92
	Parathion Methyl	97.7	100	99.8	109	2.58		9.04
	Pendimethalin	90.1	91.9	95.9	95.0	1.92		0.934
	Permethrin	71.6	76.1	88.6	86.5	6.08		2.38
	Phorate	88.6	93.9	88.5	100	5.80		10.8
	Prodiamine	84.6	83.3	83.2	83.8	1.57		0.719
	Prometon	91.2	78.5	81.1	77.6	15.0		3.32
	Prometryn	92.7	85.1	87.1	83.2	8.58		4.56
	Simazine	102	108			5.61		12.3
	Tebuconazole	75.7	96.4	13.8	11.1	24.1		12.5
	Terbufos	84.2	94.7	105	116	11.8		9.97
	Terbuthylazine	99.5	92.2	97.9	99.4	7.68		1.58
	Trans-Nonachlor	75.0	78.3	89.1	83.1	4.28		6.98
	Trifluralin	91.1	93.2	106	102	2.26		3.64
EPA 8276	Chlordane	82.3	77.6	73.5	80.3	5.87		8.88
	Toxaphene	70.1	66.4	59.1	61.8	5.45		4.58
EPA 8321B	2,4-D	146						14.5
	3-Hydroxycarbofuran	109		93.4	98.9			5.71

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8321B	Acesulfame K	128	94.2	124			25.8
	Acetaminophen	90.0	83.7	79.0			5.77
	Acetamiprid	100	128	113			12.5
	Afidopyropen	111	119	112			5.78
	Aldicarb	113	78.3	93.7			17.8
	Aldicarb Sulfone	105	101	110			7.96
	Aldicarb Sulfoxide	105	52.3	55.4			5.81
	AMPA	122	69.3	68.0			0.691
	Bentazon	134					9.69
	Benzovindiflupyr	88.4	105	90.5			14.5
	Carbamazepine	107	101	94.5			6.54
	Carbaryl	113	81.7	88.9			8.44
	Carbofuran	93.0	65.3	68.7			5.11
	Clothianidin	90.4	112	99.9			11.3
	Dinotefuran	92.6	107	91.4			15.6
	Diuron	126	115	104			8.54
	Endothall	94.1	69.5	73.0			4.86
	Fenuron	104	102	93.6			8.26
	Fluridone	98.3	98.7	84.2			12.2
	Glufosinate	119	93.8	94.6			0.774
	Glyphosate	123	123	113			3.36
	Hydrocodone	93.6	110	99.8			9.97
	Ibuprofen	91.8	85.6	75.4			12.7
	Imazapyr	97.2					10.8
	Imidacloprid	105	212	176			15.6
	Linuron	73.5	69.0	62.4			10.0
	Mandestrobin	94.6	98.1	88.6			10.3
	MCCP	165	183	159			13.3
	Methiocarb	80.4	64.5	70.6			9.03
	Methomyl	90.6	69.8	76.4			8.99
	Naproxen	104	151	92.7			47.6
	Oxamyl	112	92.4	96.4			4.25
	Primidone	85.1	91.8	87.6			4.67
	Propoxur	95.4	67.0	70.5			5.05
	Pyraclostrobin	87.0	98.0	88.1			10.6
	Sucralose	146	165	153			6.19
	Thiamethoxam	109	160	142			12.2
	Tolfenpyrad	63.5	82.4	68.5			18.3
	Triclopyr	118	160	140			13.6
SM 2120 B	Color (true)	98.6				0.131	
SM 2320 B-97	Total Alkalinity	104				1.59	
SM 2540 C-97	TDS					7.41	
SM 4500 F-C-97	Fluoride	95.7	97.0	97.0			0.0
SM 5310 B-00	Organic Carbon	102	103	104			0.378

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2118201
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2118222

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2118222
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2118201
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2118201
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2118202
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2118202
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2118202
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2118202
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2118203
EPA 8270E / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	2118220
EPA 8270E / E31780	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2118221
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2118220
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	2118214
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2118215
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	2118215
SM 2120 B / E31780	True Color measured at 450 nm	2118201
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2118201
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2118201
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2118201
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2118201
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2118202

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	09/11/2019			09/11/2019 16:13	Samantha Davila	2118201
EPA 200.7 Rev. 4.4	09/11/2019	09/16/2019 14:50	Elliott D. Healy	09/17/2019 15:05	Alexander Thompson	2118222
	09/11/2019	09/16/2019 14:50	Elliott D. Healy	09/18/2019 17:54	Betina Topolski	2118222
EPA 200.8 Rev. 5.4	09/11/2019	09/16/2019 14:50	Elliott D. Healy	09/20/2019 18:34	Justin Cutchin	2118222
	09/11/2019	09/16/2019 14:50	Elliott D. Healy	09/26/2019 18:10	Robert K Palmer	2118222
	09/11/2019	09/16/2019 14:50	Elliott D. Healy	09/27/2019 10:09	Robert K Palmer	2118222
EPA 300.0 Rev. 2.1	09/11/2019			09/14/2019 08:23	Jhamieka S. Greenwood	2118201
EPA 350.1 Rev. 2.0	09/11/2019			09/16/2019 12:59	Ping Hua	2118202
EPA 351.2 Rev. 2.0	09/11/2019	09/17/2019 12:50	Sima Feizi	09/18/2019 13:23	Julia Storbeck	2118202
EPA 353.2 Rev. 2.0	09/11/2019			09/12/2019 10:30	Beverly Y. Sanders	2118202
EPA 365.1 Rev. 2.0	09/11/2019	09/13/2019 13:45	Lipi Saha	09/16/2019 12:53	Rosalyn Ballman	2118202
EPA 365.1 Rev. 2.0 dissolved	09/11/2019			09/11/2019 16:24	Jhamieka S. Greenwood	2118203
EPA 8270E	09/11/2019	09/12/2019 08:00	Fe-Val Siddell	09/13/2019 17:37	Vandana T. Nagar	2118221
	09/11/2019	09/13/2019 08:00	Fe-Val Siddell	09/20/2019 23:21	Arthur Maknenko	2118220
EPA 8276	09/11/2019	09/13/2019 08:00	Fe-Val Siddell	09/20/2019 03:55	Michael Poppell	2118220
EPA 8321B	09/11/2019	09/12/2019 10:00	Rebecca Ware	09/12/2019 19:25	Rebecca Ware	2118215
	09/11/2019	09/12/2019 10:00	Rebecca Ware	09/13/2019 18:13	Rebecca Ware	2118215
	09/11/2019	09/12/2019 10:00	Rebecca Ware	09/25/2019 15:22	Rebecca Ware	2118215
	09/11/2019	09/12/2019 10:30	Hoor Shaik	09/14/2019 00:05	Juyoung Kim	2118214
	09/11/2019	09/12/2019 13:00	Hoor Shaik	09/14/2019 09:18	Juyoung Kim	2118215
SM 2120 B	09/11/2019			09/11/2019 18:01	Madeline Funaro	2118201
SM 2320 B-97	09/11/2019			09/18/2019 05:16	Dale L. Simmons	2118201
SM 2540 C-97	09/11/2019			09/17/2019 09:25	Yijie Li	2118201
SM 2540 D-97	09/11/2019			09/17/2019 09:25	Yijie Li	2118201
SM 4500 F-C-97	09/11/2019			09/25/2019 18:05	Dale L. Simmons	2118201
SM 5310 B-00	09/11/2019			09/16/2019 18:27	Madeline Funaro	2118202