

Chemical Analysis Report

CEN-DIST-2019-10-25-01

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-2019-10-28-60**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Michael Linger

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 19-NOV-2019 16:42

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

Case Narrative

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

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

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

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

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

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

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

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

Precision is reported as relative percent difference unless otherwise noted.

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

QC Codes used in this report may include:

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

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

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

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

Sample Location: Dead River @ 1250 m North of Lake Hatchineha Collection Date/Time: 10/24/2019 10:34

Field ID: G4CE0167

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2131557	EPA 180.1 Rev. 2.0	Turbidity	1.8		NTU	P373329	
	EPA 300.0 Rev. 2.1	Chloride	21	A	mg Cl/L	P373762	
		Sulfate	1.4	A	mg SO4/L	P373766	
	SM 2120 B	Color (true)	460		PCU	P373181	
	SM 2320 B-97	Total Alkalinity	30		mg CaCO3/L	P373311	
	SM 2540 C-97	TDS	144		mg/L	P373707	
	SM 2540 D-97	TSS	3	I	mg/L	P373598	
	SM 4500 F-C-97	Fluoride	0.079	I	mg F/L	P373314	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.022		mg N/L	P373543	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.5		mg N/L	P373499	
2131558	EPA 353.2 Rev. 2.0	NO2NO3-N	0.025		mg N/L	P373200	
	EPA 365.1 Rev. 2.0	Total-P	0.070		mg P/L	P373347	
	SM 5310 B-00	Organic Carbon	41		mg C/L	P373404	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.040		mg P/L	P373225	
	EPA 8321B	Aldicarb	0.020	U	ug/L	P373086	
2131559		Aldicarb Sulfone	0.0020	U	ug/L	P373086	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P373086	
		Carbaryl	0.0020	U	ug/L	P373086	
		Carbofuran	0.0020	U	ug/L	P373086	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P373086	
		Methiocarb	0.0020	U	ug/L	P373086	
		Methomyl	0.0020	U	ug/L	P373086	
		Oxamyl	0.0020	U	ug/L	P373086	
		Propoxur	0.0020	U	ug/L	P373086	
		2,4-D	0.0020	U	ug/L	P373120	
2131574		Acesulfame K**	0.10	U	ug/L	P373164	
		AMPA**	0.10	U	ug/L	P373164	
		Sucralose**	0.92		ug/L	P373164	
		Acetaminophen**	0.0080	U	ug/L	P373120	
		Acetamiprid**	0.0020	U	ug/L	P373120	
		Endothall**	0.25	U	ug/L	P373164	
		Glufosinate**	0.10	U	ug/L	P373164	
		Glyphosate**	0.10	U	ug/L	P373164	
		Afidopyropen**	0.0020	UJ	ug/L	P373120	
		Bentazon	0.0060		ug/L	P373120	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P373120	
		Carbamazepine**	8.0E-04	U	ug/L	P373120	
		Clothianidin**	0.0020	U	ug/L	P373120	
		Dinotefuran**	0.0020	U	ug/L	P373120	
		Diuron	0.0020	U	ug/L	P373120	
		Fenuron	0.016	U	ug/L	P373120	
		Fluridone**	0.0014	I	ug/L	P373120	
		Imazapyr**	0.044		ug/L	P373120	

Field ID: G4CE0167

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2131574	EPA 8321B	Hydrocodone**	0.0020	U	ug/L	P373120	MS
		Ibuprofen**	0.020	U	ug/L	P373120	
		Imidacloprid	0.0020	U	ug/L	P373120	
		Linuron	0.0040	U	ug/L	P373120	
		Mandestrobin**	0.0020	UJ	ug/L	P373120	
		MCP	0.0020	U	ug/L	P373120	
		Naproxen**	0.0080	U	ug/L	P373120	
		Primidone**	0.0040	U	ug/L	P373120	
		Pyraclostrobin**	0.0020	U	ug/L	P373120	
		Thiamethoxam**	0.0020	U	ug/L	P373120	
		Tolfenpyrad**	0.0020	U	ug/L	P373120	
		Triclopyr**	0.0040	U	ug/L	P373120	
2131575	EPA 8270E	Aldrin	4.4	U	ng/L	P373112	MS
		Alpha-BHC	2.2	U	ng/L	P373112	
		Alpha-Chlordane	1.1	U	ng/L	P373112	
		Beta-BHC	11	U	ng/L	P373112	
		Bifenthrin**	4.4	U	ng/L	P373112	
		Delta-BHC	8.9	U	ng/L	P373112	
		Gamma-BHC	8.9	U	ng/L	P373112	
		Carbophenothion	11	U	ng/L	P373112	
		Chlorothalonil	2.2	U	ng/L	P373112	
		Cis-Nonachlor**	1.1	U	ng/L	P373112	
		Cypermethrin	22	U	ng/L	P373112	
		DDD-p,p'	6.7	U	ng/L	P373112	
		DDE-p,p'	6.7	U	ng/L	P373112	
		DDT-p,p'	7.8	U	ng/L	P373112	
		Dicofol	33	U	ng/L	P373112	
		Dieldrin	4.4	U	ng/L	P373112	
		Endosulfan I	4.4	U	ng/L	P373112	
		Endosulfan II	4.4	U	ng/L	P373112	
		Endosulfan Sulfate	2.2	U	ng/L	P373112	
		Endrin	2.2	U	ng/L	P373112	
		Endrin Aldehyde	2.2	U	ng/L	P373112	
		Endrin Ketone	2.2	U	ng/L	P373112	
		Ethalfuralin**	3.3	U	ng/L	P373112	
		Gamma-Chlordane	1.1	U	ng/L	P373112	
		Heptachlor	1.7	U	ng/L	P373112	
		Heptachlor Epoxide	2.2	U	ng/L	P373112	
		Hexachlorobenzene	2.2	U	ng/L	P373112	
		Methoxychlor	4.4	U	ng/L	P373112	
		Mirex	2.2	U	ng/L	P373112	
		Permethrin	11	U	ng/L	P373112	
		Trans-Nonachlor**	1.1	U	ng/L	P373112	
		Trifluralin	2.8	U	ng/L	P373112	
	EPA 8276	Chlordane	6.1	I	ng/L	P373112	

Field ID: G4CE0167

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2131575	EPA 8276	Toxaphene	33	U	ng/L	P373112	
2131576	EPA 8270E	Acetochlor	0.26	U	ng/L	P373194	
		Alachlor	0.26	U	ng/L	P373194	
		Ametryn	0.63	U	ng/L	P373194	
		Atrazine	0.98	I	ng/L	P373194	
		Atrazine Desethyl	1.6	U	ng/L	P373194	
		Azinphos Methyl	5.3	U	ng/L	P373194	
		Bromacil	0.61	I	ng/L	P373194	
		Butylate	0.42	U	ng/L	P373194	
		Chlorpyrifos Ethyl	0.26	U	ng/L	P373194	
		Chlorpyrifos Methyl	0.11	U	ng/L	P373194	
		Cyanazine	3.4	U	ng/L	P373194	
		Demeton	7.4	U	ng/L	P373194	
		Diazinon	0.13	U	ng/L	P373194	
		Dimethenamid**	0.11	U	ng/L	P373194	
		Disulfoton	0.53	U	ng/L	P373194	
		Dithiopyr**	0.13	I	ng/L	P373194	
		EPTC	1.3	U	ng/L	P373194	
		Ethion	0.16	U	ng/L	P373194	RPD
		Ethoprop	0.11	U	ng/L	P373194	
		Fenamiphos	0.53	U	ng/L	P373194	
		Fipronil	0.26	U	ng/L	P373194	
		Fipronil Desulfinyl**	0.13	UJ	ng/L	P373194	RPD
		Fipronil Sulfide	0.16	U	ng/L	P373194	
		Fipronil Sulfone	0.16	U	ng/L	P373194	
		Fonofos	0.21	U	ng/L	P373194	
		Hexazinone	0.53	U	ng/L	P373194	
		Malathion	0.37	U	ng/L	P373194	
		Metalaxyl	0.32	U	ng/L	P373194	
		Metolachlor	0.53	U	ng/L	P373194	
		Metribuzin	0.79	U	ng/L	P373194	RPD
		Mevinphos	0.53	U	ng/L	P373194	
		Molinate	0.32	U	ng/L	P373194	
		Norflurazon	0.53	U	ng/L	P373194	
		Oxadiazon**	0.11	U	ng/L	P373194	
		Parathion Ethyl	0.26	U	ng/L	P373194	
		Parathion Methyl	0.58	U	ng/L	P373194	
		Pendimethalin	1.1	U	ng/L	P373194	
		Phorate	0.26	U	ng/L	P373194	
		Prodiamine**	0.18	U	ng/L	P373194	
		Prometon	0.95	U	ng/L	P373194	
		Prometryn	0.21	U	ng/L	P373194	
		Simazine	0.53	U	ng/L	P373194	
		Tebuconazole**	0.53	U	ng/L	P373194	RPD
		Terbufos	0.11	U	ng/L	P373194	

Field ID: G4CE0167

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2131576	EPA 8270E	Terbutylazine	0.45	U	ng/L	P373194	
2131583	EPA 200.7 Rev. 4.4	Barium	12.2		ug/L	P373359	
		Calcium	13.3		mg/L	P373359	
		Iron	530		ug/L	P373359	
		Magnesium	3.20		mg/L	P373359	
		Potassium	2.7		mg/L	P373359	
		Sodium	12.6		mg/L	P373359	
		Zinc	5.0	U	ug/L	P373359	
	EPA 200.8 Rev. 5.4	Aluminum	237		ug/L	P373359	
		Antimony	0.063	I	ug/L	P373359	
		Arsenic	0.70		ug/L	P373359	
		Boron**	37.0		ug/L	P373359	
		Cadmium	0.020	U	ug/L	P373359	
		Chromium	0.61	I	ug/L	P373359	
		Copper	0.99		ug/L	P373359	
		Lead	0.41		ug/L	P373359	
		Nickel	0.66	I	ug/L	P373359	
		Selenium	0.20	U	ug/L	P373359	
		Silver	0.010	U	ug/L	P373359	
		Thallium	0.10	U	ug/L	P373359	

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 some analytes could not be assessed due to high concentration of parameter in the spiked sample.

EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P373329

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P373359

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: P373359

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: P373762

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P373766

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P373543

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: P373499

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P373200

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P373347

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P373225

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

Reference Method: EPA 8270E
Batch ID: P373112

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
 Batch ID: P373112

Component	Result	Code	Units
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 8270E
 Batch ID: P373194

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
Metaxyl	0.30	U	ng/L
Metolachlor	0.50	U	ng/L
Metribuzin	0.75	U	ng/L
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.10	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Simazine	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
Batch ID: P373194

Component	Result	Code	Units
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L

Reference Method: EPA 8276
Batch ID: P373112

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

Reference Method: EPA 8321B
Batch ID: P373086

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: P373120

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P373120

Component	Result	Code	Units
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P373164

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: P373181

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P373311

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

Reference Method: SM 2540 C-97
Batch ID: P373707

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P373598

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P373314

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P373404

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: P373359

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	103		P	85 - 115
Calcium	100		P	85 - 115
Iron	100		P	85 - 115
Magnesium	107		P	85 - 115
Potassium	104		P	85 - 115
Sodium	106		P	85 - 115
Zinc	102		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P373359

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	108		P	85 - 115
Antimony	113		P	85 - 115
Arsenic	98.5		P	85 - 115
Boron	110		P	85 - 115
Cadmium	110		P	85 - 115
Chromium	96.5		P	85 - 115
Copper	107		P	85 - 115
Lead	112		P	85 - 115
Nickel	108		P	85 - 115
Selenium	104		P	85 - 115
Silver	115		P	85 - 115
Thallium	114		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P373762

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	99.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P373766

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P373543

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P373499

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P373200

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: P373347

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P373225

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	97.3		P	90 - 110

Reference Method: EPA 8270E
 Batch ID: P373112

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	22.7	21.8	P/P	20 - 93.0
Alpha-BHC	101	98.3	P/P	55 - 133
Alpha-Chlordane	82.2	81.6	P/P	58 - 112
Beta-BHC	110	113	P/P	54 - 168
Bifenthrin	96.3	92.7	P/P	30 - 134
Carbophenothion	73.5	73.3	P/P	26 - 147
Chlorothalonil	102	99.4	P/P	20 - 155
Cis-Nonachlor	86.5	86.2	P/P	54 - 115
Cypermethrin	100	98.8	P/P	40 - 137
DDD-p,p'	91.3	93.3	P/P	65 - 129
DDE-p,p'	78.0	76.4	P/P	57 - 116
DDT-p,p'	83.2	84.0	P/P	53 - 133
Delta-BHC	117	117	P/P	59 - 178
Dicofol	97.3	98.5	P/P	24 - 138
Dieldrin	92.8	90.9	P/P	60 - 120
Endosulfan I	96.8	94.1	P/P	64 - 118
Endosulfan II	102	100	P/P	58 - 142
Endosulfan Sulfate	104	108	P/P	60 - 127
Endrin	96.9	91.2	P/P	59 - 122
Endrin Aldehyde	112	112	P/P	49 - 132
Endrin Ketone	105	108	P/P	64 - 121
Ethalfuralin	93.7	93.9	P/P	60 - 126
Gamma-BHC	109	109	P/P	57 - 154
Gamma-Chlordane	79.0	78.4	P/P	56 - 110
Heptachlor	74.0	74.0	P/P	46 - 96.0
Heptachlor Epoxide	90.2	89.3	P/P	61 - 112
Hexachlorobenzene	78.5	82.3	P/P	44 - 98.0
Methoxychlor	102	102	P/P	63 - 134
Mirex	64.2	62.7	P/P	45 - 100
Permethrin	81.1	79.1	P/P	53 - 115
Trans-Nonachlor	80.7	79.6	P/P	47 - 110
Trifluralin	91.2	91.1	P/P	39 - 142

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P373194

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	91.4	87.7	P/P	69 - 122
Alachlor	89.3	79.6	P/P	71 - 120
Ametryn	58.1	52.5	P/P	47 - 138
Atrazine	105	94.8	P/P	74 - 124
Atrazine Desethyl	92.0	83.1	P/P	38 - 138
Azinphos Methyl	101	91.5	P/P	69 - 154
Bromacil	75.0	69.3	P/P	39 - 121
Butylate	63.8	52.8	P/P	27 - 87.0
Chlorpyrifos Ethyl	103	91.2	P/P	69 - 118
Chlorpyrifos Methyl	103	88.0	P/P	70 - 120
Cyanazine	101	106	P/P	20 - 250
Demeton	91.9	81.3	P/P	39 - 118
Diazinon	90.4	79.9	P/P	68 - 127
Dimethenamid	88.6	84.0	P/P	66 - 125
Disulfoton	89.6	82.9	P/P	52 - 126
Dithiopyr	87.2	77.0	P/P	67 - 127
EPTC	67.2	51.5	P/P	24 - 88.0
Ethion	73.6	74.2	P/P	51 - 132
Ethoprop	97.3	84.7	P/P	58 - 117
Fenamiphos	107	97.5	P/P	38 - 139
Fipronil	88.4	80.9	P/P	61 - 124
Fipronil Desulfinyl	75.5	47.6	P/P	47 - 120
Fipronil Sulfide	89.9	95.0	P/P	56 - 119
Fipronil Sulfone	93.2	78.5	P/P	50 - 117
Fonofos	99.1	85.2	P/P	60 - 121
Hexazinone	101	92.8	P/P	55 - 137
Malathion	115	101	P/P	66 - 126
Metaxyl	97.6	82.4	P/P	33 - 140
Metolachlor	91.0	81.0	P/P	69 - 119
Metribuzin	151	134	P/P	31 - 238
Mevinphos	100	81.3	P/P	42 - 113
Molinate	79.8	68.0	P/P	32 - 96.0
Norflurazon	96.4	88.3	P/P	54 - 123
Oxadiazon	84.6	76.1	P/P	63 - 128
Parathion Ethyl	90.5	80.6	P/P	72 - 111
Parathion Methyl	107	95.8	P/P	74 - 126
Pendimethalin	85.1	75.0	P/P	61 - 131
Phorate	89.1	75.9	P/P	51 - 115
Prodiamine	87.5	76.9	P/P	38 - 144
Prometon	89.7	80.3	P/P	54 - 119
Prometryn	84.3	82.9	P/P	63 - 120
Simazine	106	92.1	P/P	75 - 126
Tebuconazole	58.6	60.0	P/P	20 - 119
Terbufos	99.7	84.4	P/P	64 - 116
Terbutylazine	93.0	84.8	P/P	73 - 117

Reference Method: EPA 8276

Batch ID: P373112

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	82.4	85.4	P/P	43 - 128
Toxaphene	84.7	81.1	P/P	38 - 140

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P373086

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	91.8		P	40 - 160
Aldicarb	72.2		P	30 - 160
Aldicarb Sulfone	93.5		P	40 - 160
Aldicarb Sulfoxide	79.3		P	40 - 160
Carbaryl	71.7		P	40 - 160
Carbofuran	81.7		P	40 - 160
Methiocarb	72.7		P	40 - 160
Methomyl	85.0		P	40 - 160
Oxamyl	89.7		P	40 - 160
Propoxur	85.9		P	40 - 160

Reference Method: EPA 8321B

Batch ID: P373120

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	123		P	40 - 160
Acetaminophen	82.4		P	30 - 160
Acetamiprid	102		P	40 - 160
Afidopyropen	93.8		P	40 - 160
Bentazon	97.4		P	30 - 160
Benzovindiflupyr	94.8		P	40 - 160
Carbamazepine	103		P	40 - 160
Clothianidin	85.5		P	40 - 160
Dinotefuran	90.1		P	40 - 160
Diuron	103		P	40 - 160
Fenuron	103		P	40 - 160
Fluridone	92.8		P	40 - 160
Hydrocodone	89.0		P	40 - 160
Ibuprofen	84.4		P	30 - 160
Imazapyr	86.5		P	40 - 160
Imidacloprid	105		P	40 - 160
Linuron	78.4		P	40 - 160
Mandestrobin	94.6		P	40 - 160
MCPP	114		P	40 - 160
Naproxen	103		P	40 - 160
Primidone	90.3		P	40 - 160
Pyraclostrobin	83.4		P	30 - 160
Thiamethoxam	106		P	40 - 160
Tolfenpyrad	60.5		P	40 - 160
Triclopyr	87.5		P	30 - 160

Reference Method: EPA 8321B

Batch ID: P373164

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	116		P	40 - 150
AMPA	141		P	40 - 150
Endothall	89.2		P	40 - 150
Glufosinate	104		P	40 - 150
Glyphosate	119		P	40 - 140
Sucralose	117		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2120 B
Batch ID: P373181

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.3		P	85 - 115

Reference Method: SM 2320 B-97
Batch ID: P373311

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

Reference Method: SM 4500 F-C-97
Batch ID: P373314

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.6		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P373404

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: P373359

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2131631	Barium	102	102	P/P	80 - 120
2131631	Calcium	95.4		P	80 - 120
2131631	Iron	99.2	100	P/P	80 - 120
2131631	Magnesium	102	102	P/P	80 - 120
2131631	Potassium	104	105	P/P	80 - 120
2131631	Sodium	106	106	P/P	80 - 120
2131631	Zinc	100	102	P/P	80 - 120
2131816	Barium	103		P	80 - 120
2131816	Calcium	108		P	80 - 120
2131816	Iron	100		P	80 - 120
2131816	Magnesium	107		P	80 - 120
2131816	Potassium	108		P	80 - 120
2131816	Sodium	105		P	80 - 120
2131816	Zinc	103		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P373359

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2131631	Aluminum	115	115	P/P	80 - 120
2131631	Antimony	114	115	P/P	80 - 120
2131631	Arsenic	96.6	98.2	P/P	80 - 120
2131631	Boron	110	109	P/P	80 - 120
2131631	Cadmium	107	109	P/P	80 - 120
2131631	Chromium	93.3	96.3	P/P	80 - 120
2131631	Copper	101	100	P/P	80 - 120
2131631	Lead	109	110	P/P	80 - 120
2131631	Nickel	101	101	P/P	80 - 120
2131631	Selenium	109	108	P/P	80 - 120
2131631	Silver	111	112	P/P	80 - 120
2131631	Thallium	113	113	P/P	80 - 120
2131816	Aluminum	114		P	80 - 120
2131816	Antimony	113		P	80 - 120
2131816	Arsenic	95.1		P	80 - 120
2131816	Boron	111		P	80 - 120
2131816	Cadmium	106		P	80 - 120
2131816	Chromium	95.8		P	80 - 120
2131816	Copper	108		P	80 - 120
2131816	Lead	111		P	80 - 120
2131816	Nickel	103		P	80 - 120
2131816	Selenium	107		P	80 - 120
2131816	Silver	112		P	80 - 120
2131816	Thallium	113		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P373762

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2131557	Chloride	99.5		P	90 - 110
2131964	Chloride	99.1		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P373766

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2131557	Sulfate	100		P	90 - 110
2131964	Sulfate	99.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P373543

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2132185	Ammonia-N	98.8	99.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P373499

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2131624	Kjeldahl Nitrogen	108	106	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P373200

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2131555	NO2NO3-N	97.5	98.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P373347

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2131555	Total-P	97.8	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P373225

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2131471	O-Phosphate-P	95.9	97.1	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P373112

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2131560	Aldrin	24.9	25.2	F/P	25 - 92.0
2131560	Alpha-BHC	101	99.6	P/P	48 - 150
2131560	Alpha-Chlordane	83.3	75.4	P/P	50 - 115
2131560	Beta-BHC	108	113	P/P	39 - 184
2131560	Bifenthrin	105	96.9	P/P	46 - 116
2131560	Carbophenothion	77.5	80.1	P/P	27 - 180
2131560	Chlorothalonil	98.0	80.2	P/P	10 - 216
2131560	Cis-Nonachlor	86.6	78.9	P/P	55 - 112
2131560	Cypermethrin	116	104	P/P	40 - 153
2131560	DDD-p,p'	92.0	86.8	P/P	53 - 128
2131560	DDE-p,p'	80.7	73.7	P/P	48 - 116
2131560	DDT-p,p'	82.8	83.1	P/P	47 - 128
2131560	Delta-BHC	107	119	P/P	48 - 221
2131560	Dicofol	93.7	92.8	P/P	10 - 147
2131560	Dieldrin	91.0	81.6	P/P	48 - 128

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
 Batch ID: P373112

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2131560	Endosulfan I	94.6	82.8	P/P	58 - 126
2131560	Endosulfan II	99.1	91.0	P/P	50 - 150
2131560	Endosulfan Sulfate	101	103	P/P	56 - 130
2131560	Endrin	97.1	83.5	P/P	50 - 126
2131560	Endrin Aldehyde	107	97.0	P/P	12 - 145
2131560	Endrin Ketone	103	101	P/P	59 - 132
2131560	Ethalfuralin	94.7	95.2	P/P	65 - 122
2131560	Gamma-BHC	105	109	P/P	40 - 190
2131560	Gamma-Chlordane	80.5	73.7	P/P	50 - 112
2131560	Heptachlor	79.4	71.8	P/P	41 - 98.0
2131560	Heptachlor Epoxide	89.6	81.7	P/P	55 - 117
2131560	Hexachlorobenzene	81.3	84.5	P/P	47 - 91.0
2131560	Methoxychlor	100	96.3	P/P	55 - 133
2131560	Mirex	66.4	67.1	P/P	44 - 101
2131560	Permethrin	87.8	82.7	P/P	52 - 124
2131560	Trans-Nonachlor	80.3	73.4	P/P	53 - 99.0
2131560	Trifluralin	93.2	92.0	P/P	10 - 201

Reference Method: EPA 8270E
 Batch ID: P373194

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2130991	Acetochlor	82.7	90.9	P/P	63 - 129
2130991	Alachlor	78.9	88.7	P/P	65 - 127
2130991	Ametryn	71.7	71.0	P/P	40 - 164
2130991	Atrazine	86.2	98.8	P/P	66 - 135
2130991	Atrazine Desethyl	63.1	70.7	P/P	14 - 157
2130991	Azinphos Methyl	86.3	94.6	P/P	49 - 180
2130991	Bromacil	66.0	78.7	P/P	48 - 130
2130991	Butylate	51.4	67.8	P/P	10 - 94.0
2130991	Chlorpyrifos Ethyl	85.5	92.1	P/P	58 - 123
2130991	Chlorpyrifos Methyl	85.4	94.6	P/P	58 - 125
2130991	Cyanazine	76.6	89.3	P/P	24 - 253
2130991	Demeton	79.3	91.6	P/P	25 - 149
2130991	Diazinon	77.1	88.3	P/P	59 - 144
2130991	Dimethenamid	83.1	82.5	P/P	46 - 139
2130991	Disulfoton	76.1	89.6	P/P	54 - 132
2130991	Dithiopyr	77.4	82.7	P/P	64 - 130
2130991	EPTC	53.4	59.9	P/P	10 - 92.0
2130991	Ethion	98.9	58.2	P/P	30 - 148
2130991	Ethoprop	80.4	96.8	P/P	50 - 130
2130991	Fenamiphos	98.3	96.9	P/P	49 - 142
2130991	Fipronil	89.3	84.6	P/P	46 - 140
2130991	Fipronil Desulfinyl	87.8	76.1	P/P	30 - 121
2130991	Fipronil Sulfide	88.4	90.5	P/P	31 - 136
2130991	Fipronil Sulfone	96.7	95.7	P/P	16 - 136
2130991	Fonofos	80.0	92.4	P/P	55 - 129
2130991	Hexazinone	98.8	96.8	P/P	56 - 141
2130991	Malathion	103	112	P/P	56 - 135
2130991	Metalaxyl	84.9	85.7	P/P	54 - 135
2130991	Metolachlor	82.2	85.5	P/P	51 - 140
2130991	Metribuzin	74.0	143	P/P	45 - 254

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P373194

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2130991	Mevinphos	76.2	94.9	P/P	33 - 131
2130991	Molinate	60.6	80.6	P/P	14 - 98.0
2130991	Norflurazon	90.0	94.7	P/P	34 - 136
2130991	Oxadiazon	82.2	78.8	P/P	67 - 116
2130991	Parathion Ethyl	83.0	82.0	P/P	66 - 118
2130991	Parathion Methyl	88.6	103	P/P	64 - 136
2130991	Pendimethalin	80.8	82.8	P/P	59 - 144
2130991	Phorate	83.2	88.5	P/P	42 - 130
2130991	Prodiamine	92.1	79.4	P/P	42 - 148
2130991	Prometon	81.5	85.1	P/P	59 - 134
2130991	Prometryn	82.7	82.0	P/P	54 - 135
2130991	Simazine	75.0	84.8	P/P	53 - 156
2130991	Tebuconazole	78.7	49.8	P/P	10 - 131
2130991	Terbufos	85.0	98.3	P/P	57 - 131
2130991	Terbutylazine	86.6	90.4	P/P	68 - 125

Reference Method: EPA 8276
Batch ID: P373112

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2130850	Chlordane	87.9	90.6	P/P	34 - 136
2130850	Toxaphene	88.0	84.2	P/P	22 - 152

Reference Method: EPA 8321B
Batch ID: P373086

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2130157	3-Hydroxycarbofuran	88.9	95.5	P/P	40 - 160
2130157	Aldicarb	79.0	85.0	P/P	30 - 160
2130157	Aldicarb Sulfone	90.6	93.5	P/P	40 - 160
2130157	Aldicarb Sulfoxide	43.1	43.0	P/P	40 - 160
2130157	Carbaryl	70.9	64.5	P/P	40 - 160
2130157	Carbofuran	77.3	81.0	P/P	40 - 160
2130157	Methiocarb	67.7	72.6	P/P	40 - 160
2130157	Methomyl	84.5	76.0	P/P	40 - 160
2130157	Oxamyl	83.1	81.3	P/P	40 - 160
2130157	Propoxur	75.2	81.3	P/P	40 - 160

Reference Method: EPA 8321B
Batch ID: P373120

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2131538	2,4-D	116	104	P/P	40 - 160
2131538	Acetaminophen	76.9	77.5	P/P	30 - 160
2131538	Acetamiprid	104	104	P/P	40 - 160
2131538	Afidopyropen	94.5	95.7	P/P	40 - 160
2131538	Benzovindiflupyr	92.3	93.4	P/P	40 - 160
2131538	Carbamazepine	85.1	85.5	P/P	40 - 160
2131538	Clothianidin	95.2	88.4	P/P	40 - 160
2131538	Dinotefuran	108	105	P/P	40 - 160
2131538	Diuron	84.7	85.1	P/P	40 - 160
2131538	Fenuron	94.7	93.3	P/P	40 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P373120

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2131538	Hydrocodone	89.7	89.0	P/P	40 - 160
2131538	Ibuprofen	77.5	73.4	P/P	30 - 160
2131538	Imidacloprid	172	168	F/F	40 - 160
2131538	Linuron	68.8	69.3	P/P	40 - 160
2131538	Mandestrobin	89.2	86.9	P/P	40 - 160
2131538	MCP	109	98.3	P/P	40 - 160
2131538	Naproxen	76.8	62.1	P/P	40 - 160
2131538	Primidone	103	97.2	P/P	40 - 160
2131538	Pyraclostrobin	85.2	83.4	P/P	30 - 160
2131538	Thiamethoxam	140	139	P/P	40 - 160
2131538	Tolfenpyrad	60.7	55.2	P/P	40 - 160
2131538	Triclopyr	91.8	82.3	P/P	30 - 160

Reference Method: EPA 8321B
Batch ID: P373164

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2131107	Acesulfame K	81.0	80.1	P/P	40 - 150
2131107	AMPA	85.3	84.8	P/P	40 - 150
2131107	Endothall	84.3	87.1	P/P	40 - 150
2131107	Glufosinate	85.5	87.8	P/P	40 - 150
2131107	Glyphosate	77.6	79.4	P/P	40 - 140
2131107	Sucralose	97.8	81.9	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P373314

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2131468	Fluoride	96.5	95.4	P/P	89 - 106

Reference Method: SM 5310 B-00
Batch ID: P373404

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2131156	Organic Carbon	103	103	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P373329

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131489	Turbidity	2.35	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P373359

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131631	Barium	0.896	Spike	P	0 - 20
2131631	Calcium	0.894	Spike	P	0 - 20
2131631	Iron	0.816	Spike	P	0 - 20
2131631	Magnesium	0.358	Spike	P	0 - 20
2131631	Potassium	0.562	Spike	P	0 - 20
2131631	Sodium	0.246	Spike	P	0 - 20
2131631	Zinc	1.44	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P373359

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131631	Aluminum	0.547	Spike	P	0 - 20
2131631	Antimony	1.31	Spike	P	0 - 20
2131631	Arsenic	1.66	Spike	P	0 - 20
2131631	Boron	0.969	Spike	P	0 - 20
2131631	Cadmium	1.55	Spike	P	0 - 20
2131631	Chromium	3.00	Spike	P	0 - 20
2131631	Copper	0.605	Spike	P	0 - 20
2131631	Lead	0.365	Spike	P	0 - 20
2131631	Nickel	0.250	Spike	P	0 - 20
2131631	Selenium	1.14	Spike	P	0 - 20
2131631	Silver	0.591	Spike	P	0 - 20
2131631	Thallium	0.0500	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P373762

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131557	Chloride	0.0539	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P373766

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131557	Sulfate	0.0220	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P373543

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2132185	Ammonia-N	0.242	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P373499

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131624	Kjeldahl Nitrogen	1.71	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P373200

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131555	NO2NO3-N	0.512	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P373347

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131555	Total-P	1.61	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P373225

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131471	O-Phosphate-P	1.12	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P373112

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131560	Aldrin	1.31	Spike	P	0 - 30
2131560	Alpha-BHC	1.76	Spike	P	0 - 30
2131560	Alpha-Chlordane	9.95	Spike	P	0 - 30
2131560	Beta-BHC	5.07	Spike	P	0 - 30
2131560	Bifenthrin	7.91	Spike	P	0 - 30
2131560	Carbophenothion	3.29	Spike	P	0 - 30
2131560	Chlorothalonil	20.0	Spike	P	0 - 30
2131560	Cis-Nonachlor	9.36	Spike	P	0 - 30
2131560	Cypermethrin	10.9	Spike	P	0 - 30
2131560	DDD-p,p'	5.85	Spike	P	0 - 30
2131560	DDE-p,p'	8.95	Spike	P	0 - 30
2131560	DDT-p,p'	0.376	Spike	P	0 - 30
2131560	Delta-BHC	10.5	Spike	P	0 - 30
2131560	Dicofol	0.932	Spike	P	0 - 30
2131560	Dieldrin	10.9	Spike	P	0 - 30
2131560	Endosulfan I	13.4	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P373112

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131560	Endosulfan II	8.58	Spike	P	0 - 30
2131560	Endosulfan Sulfate	2.23	Spike	P	0 - 30
2131560	Endrin	15.1	Spike	P	0 - 30
2131560	Endrin Aldehyde	10.2	Spike	P	0 - 30
2131560	Endrin Ketone	2.38	Spike	P	0 - 30
2131560	Ethalfuralin	0.518	Spike	P	0 - 30
2131560	Gamma-BHC	3.26	Spike	P	0 - 30
2131560	Gamma-Chlordane	8.83	Spike	P	0 - 30
2131560	Heptachlor	10.1	Spike	P	0 - 30
2131560	Heptachlor Epoxide	9.20	Spike	P	0 - 30
2131560	Hexachlorobenzene	3.89	Spike	P	0 - 30
2131560	Methoxychlor	4.25	Spike	P	0 - 30
2131560	Mirex	0.982	Spike	P	0 - 30
2131560	Permethrin	5.96	Spike	P	0 - 30
2131560	Trans-Nonachlor	9.00	Spike	P	0 - 30
2131560	Trifluralin	1.25	Spike	P	0 - 30
LFB	Aldrin	3.89	LCS	P	0 - 30
LFB	Alpha-BHC	3.14	LCS	P	0 - 30
LFB	Alpha-Chlordane	0.733	LCS	P	0 - 30
LFB	Beta-BHC	2.56	LCS	P	0 - 30
LFB	Bifenthrin	3.82	LCS	P	0 - 30
LFB	Carbophenothion	0.208	LCS	P	0 - 30
LFB	Chlorothalonil	2.30	LCS	P	0 - 30
LFB	Cis-Nonachlor	0.416	LCS	P	0 - 30
LFB	Cypermethrin	1.46	LCS	P	0 - 30
LFB	DDD-p,p'	2.18	LCS	P	0 - 30
LFB	DDE-p,p'	2.08	LCS	P	0 - 30
LFB	DDT-p,p'	0.974	LCS	P	0 - 30
LFB	Delta-BHC	0.403	LCS	P	0 - 30
LFB	Dicofol	1.16	LCS	P	0 - 30
LFB	Dieldrin	2.11	LCS	P	0 - 30
LFB	Endosulfan I	2.84	LCS	P	0 - 30
LFB	Endosulfan II	1.62	LCS	P	0 - 30
LFB	Endosulfan Sulfate	3.75	LCS	P	0 - 30
LFB	Endrin	6.02	LCS	P	0 - 30
LFB	Endrin Aldehyde	0.356	LCS	P	0 - 30
LFB	Endrin Ketone	3.45	LCS	P	0 - 30
LFB	Ethalfuralin	0.222	LCS	P	0 - 30
LFB	Gamma-BHC	0.0460	LCS	P	0 - 30
LFB	Gamma-Chlordane	0.759	LCS	P	0 - 30
LFB	Heptachlor	0.0804	LCS	P	0 - 30
LFB	Heptachlor Epoxide	1.08	LCS	P	0 - 30
LFB	Hexachlorobenzene	4.77	LCS	P	0 - 30
LFB	Methoxychlor	0.204	LCS	P	0 - 30
LFB	Mirex	2.31	LCS	P	0 - 30
LFB	Permethrin	2.57	LCS	P	0 - 30
LFB	Trans-Nonachlor	1.35	LCS	P	0 - 30
LFB	Trifluralin	0.0768	LCS	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P373194

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2130991	Acetochlor	9.43	Spike	P	0 - 30
2130991	Alachlor	11.7	Spike	P	0 - 30
2130991	Ametryn	1.01	Spike	P	0 - 30
2130991	Atrazine	11.3	Spike	P	0 - 30
2130991	Atrazine Desethyl	11.3	Spike	P	0 - 30
2130991	Azinphos Methyl	9.10	Spike	P	0 - 30
2130991	Bromacil	17.6	Spike	P	0 - 30
2130991	Butylate	27.4	Spike	P	0 - 30
2130991	Chlorpyrifos Ethyl	7.41	Spike	P	0 - 30
2130991	Chlorpyrifos Methyl	10.2	Spike	P	0 - 30
2130991	Cyanazine	15.3	Spike	P	0 - 30
2130991	Demeton	14.3	Spike	P	0 - 30
2130991	Diazinon	13.5	Spike	P	0 - 30
2130991	Dimethenamid	0.779	Spike	P	0 - 30
2130991	Disulfoton	16.3	Spike	P	0 - 30
2130991	Dithiopyr	6.39	Spike	P	0 - 30
2130991	EPTC	11.6	Spike	P	0 - 30
2130991	Ethion	51.8	Spike	F	0 - 30
2130991	Ethoprop	18.5	Spike	P	0 - 30
2130991	Fenamiphos	1.45	Spike	P	0 - 30
2130991	Fipronil	5.40	Spike	P	0 - 30
2130991	Fipronil Desulfinyl	14.3	Spike	P	0 - 30
2130991	Fipronil Sulfide	2.30	Spike	P	0 - 30
2130991	Fipronil Sulfone	0.959	Spike	P	0 - 30
2130991	Fonofos	14.4	Spike	P	0 - 30
2130991	Hexazinone	1.78	Spike	P	0 - 30
2130991	Malathion	8.03	Spike	P	0 - 30
2130991	Metalaxyl	0.998	Spike	P	0 - 30
2130991	Metolachlor	3.97	Spike	P	0 - 30
2130991	Metribuzin	63.4	Spike	F	0 - 30
2130991	Mevinphos	21.8	Spike	P	0 - 30
2130991	Molinate	28.3	Spike	P	0 - 30
2130991	Norflurazon	5.05	Spike	P	0 - 30
2130991	Oxadiazon	4.24	Spike	P	0 - 30
2130991	Parathion Ethyl	1.21	Spike	P	0 - 30
2130991	Parathion Methyl	14.6	Spike	P	0 - 30
2130991	Pendimethalin	2.53	Spike	P	0 - 30
2130991	Phorate	6.15	Spike	P	0 - 30
2130991	Prodiamine	14.9	Spike	P	0 - 30
2130991	Prometon	4.29	Spike	P	0 - 30
2130991	Prometryn	0.750	Spike	P	0 - 30
2130991	Simazine	7.84	Spike	P	0 - 30
2130991	Tebuconazole	45.0	Spike	F	0 - 30
2130991	Terbufos	14.6	Spike	P	0 - 30
2130991	Terbutylazine	4.33	Spike	P	0 - 30
LFB	Acetochlor	4.13	LCS	P	0 - 30
LFB	Alachlor	11.5	LCS	P	0 - 30
LFB	Ametryn	10.1	LCS	P	0 - 30
LFB	Atrazine	10.0	LCS	P	0 - 30
LFB	Atrazine Desethyl	10.1	LCS	P	0 - 30
LFB	Azinphos Methyl	9.90	LCS	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P373194

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Bromacil	7.90	LCS	P	0 - 30
LFB	Butylate	19.0	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	11.8	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	15.6	LCS	P	0 - 30
LFB	Cyanazine	4.72	LCS	P	0 - 30
LFB	Demeton	12.2	LCS	P	0 - 30
LFB	Diazinon	12.3	LCS	P	0 - 30
LFB	Dimethenamid	5.30	LCS	P	0 - 30
LFB	Disulfoton	7.83	LCS	P	0 - 30
LFB	Dithiopyr	12.4	LCS	P	0 - 30
LFB	EPTC	26.5	LCS	P	0 - 30
LFB	Ethion	0.796	LCS	P	0 - 30
LFB	Ethoprop	13.8	LCS	P	0 - 30
LFB	Fenamiphos	8.86	LCS	P	0 - 30
LFB	Fipronil	8.78	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	45.5	LCS	F	0 - 30
LFB	Fipronil Sulfide	5.57	LCS	P	0 - 30
LFB	Fipronil Sulfone	17.1	LCS	P	0 - 30
LFB	Fonofos	15.0	LCS	P	0 - 30
LFB	Hexazinone	8.68	LCS	P	0 - 30
LFB	Malathion	12.8	LCS	P	0 - 30
LFB	Metaxyl	17.0	LCS	P	0 - 30
LFB	Metolachlor	11.7	LCS	P	0 - 30
LFB	Metribuzin	11.6	LCS	P	0 - 30
LFB	Mevinphos	20.7	LCS	P	0 - 30
LFB	Molinate	16.0	LCS	P	0 - 30
LFB	Norflurazon	8.74	LCS	P	0 - 30
LFB	Oxadiazon	10.7	LCS	P	0 - 30
LFB	Parathion Ethyl	11.5	LCS	P	0 - 30
LFB	Parathion Methyl	10.8	LCS	P	0 - 30
LFB	Pendimethalin	12.6	LCS	P	0 - 30
LFB	Phorate	15.9	LCS	P	0 - 30
LFB	Prodiamine	12.9	LCS	P	0 - 30
LFB	Prometon	11.0	LCS	P	0 - 30
LFB	Prometryn	1.66	LCS	P	0 - 30
LFB	Simazine	14.0	LCS	P	0 - 30
LFB	Tebuconazole	2.41	LCS	P	0 - 30
LFB	Terbufos	16.6	LCS	P	0 - 30
LFB	Terbutylazine	9.26	LCS	P	0 - 30

Reference Method: EPA 8276

Batch ID: P373112

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2130850	Chlordane	3.08	Spike	P	0 - 30
2130850	Toxaphene	4.46	Spike	P	0 - 30
LFB	Chlordane	3.58	LCS	P	0 - 30
LFB	Toxaphene	4.35	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P373086

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2130157	3-Hydroxycarbofuran	7.13	Spike	P	0 - 30
2130157	Aldicarb	7.30	Spike	P	0 - 30
2130157	Aldicarb Sulfone	3.12	Spike	P	0 - 30
2130157	Aldicarb Sulfoxide	0.274	Spike	P	0 - 30
2130157	Carbaryl	9.39	Spike	P	0 - 30
2130157	Carbofuran	4.68	Spike	P	0 - 30
2130157	Methiocarb	6.92	Spike	P	0 - 30
2130157	Methomyl	10.7	Spike	P	0 - 30
2130157	Oxamyl	2.17	Spike	P	0 - 30
2130157	Propoxur	7.76	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P373120

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131538	2,4-D	8.47	Spike	P	0 - 30
2131538	Acetaminophen	0.749	Spike	P	0 - 30
2131538	Acetamiprid	0.151	Spike	P	0 - 30
2131538	Afidopyropen	1.18	Spike	P	0 - 30
2131538	Bentazon	0.997	Spike	P	0 - 30
2131538	Benzovindiflupyr	1.16	Spike	P	0 - 30
2131538	Carbamazepine	0.468	Spike	P	0 - 30
2131538	Clothianidin	7.04	Spike	P	0 - 30
2131538	Dinotefuran	2.16	Spike	P	0 - 30
2131538	Diuron	0.415	Spike	P	0 - 30
2131538	Fenuron	1.52	Spike	P	0 - 30
2131538	Fluridone	0.743	Spike	P	0 - 30
2131538	Hydrocodone	0.830	Spike	P	0 - 30
2131538	Ibuprofen	5.44	Spike	P	0 - 30
2131538	Imazapyr	4.79	Spike	P	0 - 30
2131538	Imidacloprid	2.36	Spike	P	0 - 30
2131538	Linuron	0.662	Spike	P	0 - 30
2131538	Mandestrobin	2.57	Spike	P	0 - 30
2131538	MCPP	10.5	Spike	P	0 - 30
2131538	Naproxen	21.2	Spike	P	0 - 30
2131538	Primidone	6.05	Spike	P	0 - 30
2131538	Pyraclostrobin	2.12	Spike	P	0 - 30
2131538	Thiamethoxam	0.719	Spike	P	0 - 30
2131538	Tolfenpyrad	9.44	Spike	P	0 - 30
2131538	Triclopyr	10.8	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P373164

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131107	Acesulfame K	1.11	Spike	P	0 - 30
2131107	AMPA	0.606	Spike	P	0 - 30
2131107	Endothall	3.27	Spike	P	0 - 30
2131107	Glufosinate	2.71	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
 Batch ID: P373164

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131107	Glyphosate	2.27	Spike	P	0 - 30
2131107	Sucralose	17.8	Spike	P	0 - 30

Reference Method: SM 2120 B
 Batch ID: P373181

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131492	Color (true)	2.48	Sample	P	0 - 20

Reference Method: SM 2320 B-97
 Batch ID: P373311

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131468	Total Alkalinity	0.101	Sample	P	0 - 2.8

Reference Method: SM 2540 C-97
 Batch ID: P373707

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131489	TDS	7.57	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
 Batch ID: P373314

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131468	Fluoride	1.01	Spike	P	0 - 2.5

Reference Method: SM 5310 B-00
 Batch ID: P373404

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2131156	Organic Carbon	0.153	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2131573
Field Sample ID: G4CE0167

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	62.9	P	30 - 160

Lab Sample ID: 2131574
Field Sample ID: G4CE0167

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	74.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	70.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	66.4	P	30 - 160
EPA 8321B	Diuron-d6	53.9	P	30 - 160
EPA 8321B	Endothall-d6	87.4	P	30 - 160
EPA 8321B	Endothall-d6	87.4	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	62.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	62.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	68.1	P	30 - 160
EPA 8321B	Primidone-d5	63.1	P	30 - 160
EPA 8321B	Sucralose-d6	95.4	P	30 - 160
EPA 8321B	Sucralose-d6	95.4	P	30 - 160

Lab Sample ID: 2131575
Field Sample ID: G4CE0167

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	99.8	P	39 - 109
EPA 8270E	Tetrachloro-m-xylene	84.0	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	66.4	P	30 - 103
EPA 8276	PCNB	102	P	37 - 143

Lab Sample ID: 2131576
Field Sample ID: G4CE0167

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	107	P	68 - 130
EPA 8270E	Terbufos-d10	95.2	P	61 - 136

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B
Run ID: A95265
Included Lab Sample IDs: 2131557

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	99.5	P/P	90 - 115

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A95272
Included Lab Sample IDs: 2131558

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A95277
Included Lab Sample IDs: 2131559

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

Reference Method: EPA 8321B
Run ID: A95283
Included Lab Sample IDs: 2131573

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	95.3	98.4	P/P	60 - 150
Aldicarb	87.0	104	P/P	60 - 150
Aldicarb Sulfone	90.8	91.8	P/P	50 - 150
Aldicarb Sulfoxide	98.1	92.8	P/P	50 - 150
Carbaryl	101	102	P/P	60 - 150
Carbofuran	103	105	P/P	50 - 150
Methiocarb	108	107	P/P	50 - 150
Methomyl	95.6	97.9	P/P	50 - 150
Oxamyl	94.1	96.2	P/P	50 - 150
Propoxur	103	105	P/P	50 - 150

Reference Method: SM 2320 B-97
Run ID: A95300
Included Lab Sample IDs: 2131557

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	104	103	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Run ID: A95300
Included Lab Sample IDs: 2131557

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.0	99.5	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A95304
Included Lab Sample IDs: 2131557

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A95304

Included Lab Sample IDs: 2131557

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

Reference Method: EPA 8321B

Run ID: A95323

Included Lab Sample IDs: 2131574

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	102	103	P/P	60 - 160
Endothall	94.6	100	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A95334

Included Lab Sample IDs: 2131574

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	85.9	68.1	P/P	60 - 160
Glufosinate	82.2	68.4	P/P	60 - 160
Glyphosate	86.1	80.5	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A95336

Included Lab Sample IDs: 2131558

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	106	103	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A95339

Included Lab Sample IDs: 2131558

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	104	103	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A95351

Included Lab Sample IDs: 2131583

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	102	102	P/P	90 - 110
Calcium	101	101	P/P	90 - 110
Iron	101	101	P/P	90 - 110
Magnesium	102	102	P/P	90 - 110
Potassium	98.7	100	P/P	90 - 110
Sodium	99.1	101	P/P	90 - 110
Zinc	102	103	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A95386

Included Lab Sample IDs: 2131558

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A95386

Included Lab Sample IDs: 2131558

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A95416

Included Lab Sample IDs: 2131558

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.3	104	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A95462

Included Lab Sample IDs: 2131574

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	88.6	92.2	P/P	60 - 160

Reference Method: EPA 8276

Run ID: A95481

Included Lab Sample IDs: 2131575

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.9		P	80 - 120
Toxaphene	99.1		P	80 - 120

Reference Method: EPA 8270E

Run ID: A95507

Included Lab Sample IDs: 2131575

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	103		P	80 - 120
Alpha-BHC	109		P	80 - 120
Alpha-Chlordane	108		P	80 - 120
Beta-BHC	110		P	80 - 120
Bifenthrin	110		P	80 - 120
Carbophenothion	113		P	80 - 120
Chlorothalonil	103		P	80 - 120
Cis-Nonachlor	108		P	80 - 120
Cypermethrin	115		P	80 - 120
DDD-p,p'	109		P	80 - 120
DDE-p,p'	106		P	80 - 120
DDT-p,p'	108		P	80 - 120
Delta-BHC	111		P	80 - 120
Dicofol	112		P	80 - 120
Dieldrin	109		P	80 - 120
Endosulfan I	109		P	80 - 120
Endosulfan II	107		P	80 - 120
Endosulfan Sulfate	115		P	80 - 120
Endrin	110		P	80 - 120
Endrin Aldehyde	113		P	80 - 120
Endrin Ketone	113		P	80 - 120
Ethalfuralin	114		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A95507
 Included Lab Sample IDs: 2131575

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Gamma-BHC	110		P	80 - 120
Gamma-Chlordane	110		P	80 - 120
Heptachlor	110		P	80 - 120
Heptachlor Epoxide	109		P	80 - 120
Hexachlorobenzene	113		P	80 - 120
Methoxychlor	108		P	80 - 120
Mirex	109		P	80 - 120
Permethrin	107		P	80 - 120
Trans-Nonachlor	108		P	80 - 120
Trifluralin	112		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
 Run ID: A95511
 Included Lab Sample IDs: 2131557

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

Reference Method: EPA 8321B
 Run ID: A95576
 Included Lab Sample IDs: 2131574

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	94.9	89.8	P/P	50 - 150
Acetaminophen	100	98.5	P/P	60 - 160
Acetamiprid	110	110	P/P	50 - 150
Afidopyropen	88.1	94.0	P/P	50 - 150
Bentazon	94.2	91.1	P/P	50 - 160
Benzovindiflupyr	108	112	P/P	50 - 150
Carbamazepine	108	107	P/P	60 - 150
Clothianidin	89.8	94.7	P/P	60 - 150
Dinotefuran	94.4	95.1	P/P	50 - 150
Diuron	112	109	P/P	60 - 150
Fenuron	109	109	P/P	60 - 150
Fluridone	112	115	P/P	60 - 160
Hydrocodone	104	102	P/P	60 - 150
Ibuprofen	105	88.8	P/P	50 - 160
Imazapyr	92.4	89.4	P/P	50 - 150
Imidacloprid	97.9	97.4	P/P	60 - 150
Linuron	102	104	P/P	60 - 150
Mandestrobin	108	110	P/P	50 - 150
MCPP	101	98.3	P/P	50 - 150
Naproxen	93.6	78.7	P/P	50 - 160
Primidone	102	103	P/P	60 - 150
Pyraclostrobin	99.7	101	P/P	60 - 150
Thiamethoxam	104	106	P/P	50 - 150
Tolfenpyrad	104	98.8	P/P	60 - 150
Triclopyr	89.5	80.6	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A95586
 Included Lab Sample IDs: 2131576

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	103		P	80 - 120
Alachlor	102		P	80 - 120
Ametryn	104		P	80 - 120
Atrazine	102		P	80 - 120
Atrazine Desethyl	102		P	80 - 120
Azinphos Methyl	94.3		P	80 - 120
Bromacil	106		P	80 - 120
Butylate	103		P	80 - 120
Chlorpyrifos Ethyl	97.7		P	80 - 120
Chlorpyrifos Methyl	101		P	80 - 120
Cyanazine	102		P	80 - 120
Demeton	98.2		P	80 - 120
Diazinon	104		P	80 - 120
Dimethenamid	104		P	80 - 120
Disulfoton	99.7		P	80 - 120
Dithiopyr	101		P	80 - 120
EPTC	102		P	80 - 120
Ethion	102		P	80 - 120
Ethoprop	101		P	80 - 120
Fenamiphos	93.9		P	80 - 120
Fipronil	98.0		P	80 - 120
Fipronil Desulfinyl	103		P	80 - 120
Fipronil Sulfide	97.7		P	80 - 120
Fipronil Sulfone	98.2		P	80 - 120
Fonofos	98.7		P	80 - 120
Hexazinone	105		P	80 - 120
Malathion	95.5		P	80 - 120
Metaxyl	103		P	80 - 120
Metolachlor	105		P	80 - 120
Metribuzin	105		P	80 - 120
Mevinphos	96.5		P	80 - 120
Molinate	106		P	80 - 120
Norflurazon	97.6		P	80 - 120
Oxadiazon	105		P	80 - 120
Parathion Ethyl	93.2		P	80 - 120
Parathion Methyl	92.4		P	80 - 120
Pendimethalin	102		P	80 - 120
Phorate	102		P	80 - 120
Prodiamine	112		P	80 - 120
Prometon	100		P	80 - 120
Prometryn	100		P	80 - 120
Simazine	111		P	80 - 120
Tebuconazole	101		P	80 - 120
Terbufos	98.7		P	80 - 120
Terbuthylazine	103		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
 Run ID: A95696
 Included Lab Sample IDs: 2131583

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A95696

Included Lab Sample IDs: 2131583

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.9	110	P/P	90 - 110
Antimony	102	104	P/P	90 - 110
Boron	101	107	P/P	90 - 110
Cadmium	102	103	P/P	90 - 110
Copper	99.1	100	P/P	90 - 110
Lead	102	103	P/P	90 - 110
Nickel	99.6	99.6	P/P	90 - 110
Selenium	102	105	P/P	90 - 110
Silver	104	105	P/P	90 - 110
Thallium	96.0	97.7	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A95772

Included Lab Sample IDs: 2131583

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	97.9	97.0	P/P	90 - 110
Chromium	98.4	98.9	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							2.35	
EPA 200.7 Rev. 4.4	Barium	103		102	102	103			0.896
	Calcium	100		95.4	108				0.894
	Iron	100		99.2	100	100			0.816
	Magnesium	107		102	102	107			0.358
	Potassium	104		104	105	108			0.562
	Sodium	106		106	106	105			0.246
	Zinc	102		100	102	103			1.44
EPA 200.8 Rev. 5.4	Aluminum	108		115	115	114			0.547
	Antimony	113		114	115	113			1.31
	Arsenic	98.5		96.6	98.2	95.1			1.66
	Boron	110		110	109	111			0.969
	Cadmium	110		107	109	106			1.55
	Chromium	96.5		93.3	96.3	95.8			3.00
	Copper	107		101	100	108			0.605
	Lead	112		109	110	111			0.365
	Nickel	108		101	101	103			0.250
	Selenium	104		109	108	107			1.14
	Silver	115		111	112	112			0.591
	Thallium	114		113	113	113			0.0500
EPA 300.0 Rev. 2.1	Chloride	99.7		99.5	99.1			0.0539	
	Sulfate	99.8		100	99.5			0.0220	
EPA 350.1 Rev. 2.0	Ammonia-N	98.8		98.8	99.1				0.242
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105		108	106				1.71
EPA 353.2 Rev. 2.0	NO2NO3-N	100		97.5	98.0				0.512
EPA 365.1 Rev. 2.0	Total-P	101		97.8	100				1.61
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.3		95.9	97.1				1.12
EPA 8270E	Acetochlor	91.4	87.7	82.7	90.9		4.13		9.43
	Alachlor	89.3	79.6	78.9	88.7		11.5		11.7
	Aldrin	22.7	21.8	24.9	25.2		3.89		1.31
	Alpha-BHC	101	98.3	99.6	101		3.14		1.76
	Alpha-Chlordane	82.2	81.6	83.3	75.4		0.733		9.95
	Ametryn	58.1	52.5	71.7	71.0		10.1		1.01
	Atrazine	105	94.8	86.2	98.8		10.0		11.3
	Atrazine Desethyl	92.0	83.1	63.1	70.7		10.1		11.3
	Azinphos Methyl	101	91.5	86.3	94.6		9.90		9.10
	Beta-BHC	110	113	108	113		2.56		5.07
	Bifenthrin	96.3	92.7	105	96.9		3.82		7.91
	Bromacil	75.0	69.3	66.0	78.7		7.90		17.6
	Butylate	63.8	52.8	51.4	67.8		19.0		27.4
	Carbophenothion	73.5	73.3	77.5	80.1		0.208		3.29
	Chlorothalonil	102	99.4	98.0	80.2		2.30		20.0
	Chlorpyrifos Ethyl	103	91.2	85.5	92.1		11.8		7.41
	Chlorpyrifos Methyl	103	88.0	85.4	94.6		15.6		10.2
	Cis-Nonachlor	86.5	86.2	78.9	86.6		0.416		9.36
	Cyanazine	101	106	76.6	89.3		4.72		15.3
	Cypermethrin	100	98.8	104	116		1.46		10.9
	DDD-p,p'	91.3	93.3	86.8	92.0		2.18		5.85
	DDE-p,p'	78.0	76.4	73.7	80.7		2.08		8.95
	DDT-p,p'	83.2	84.0	83.1	82.8		0.974		0.376
	Delta-BHC	117	117	107	119		0.403		10.5
	Demeton	91.9	81.3	79.3	91.6		12.2		14.3
	Diazinon	90.4	79.9	77.1	88.3		12.3		13.5
	Dicofol	97.3	98.5	92.8	93.7		1.16		0.932

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270E	Dieldrin	92.8	90.9	81.6	91.0	2.11	10.9
	Dimethenamid	88.6	84.0	83.1	82.5	5.30	0.779
	Disulfoton	89.6	82.9	76.1	89.6	7.83	16.3
	Dithiopyr	87.2	77.0	77.4	82.7	12.4	6.39
	Endosulfan I	96.8	94.1	82.8	94.6	2.84	13.4
	Endosulfan II	102	100	91.0	99.1	1.62	8.58
	Endosulfan Sulfate	104	108	103	101	3.75	2.23
	Endrin	96.9	91.2	83.5	97.1	6.02	15.1
	Endrin Aldehyde	112	112	97.0	107	0.356	10.2
	Endrin Ketone	105	108	101	103	3.45	2.38
	EPTC	67.2	51.5	53.4	59.9	26.5	11.6
	Ethalfuralin	93.7	93.9	95.2	94.7	0.222	0.518
	Ethion	73.6	74.2	98.9	58.2	0.796	51.8
	Ethoprop	97.3	84.7	80.4	96.8	13.8	18.5
	Fenamiphos	107	97.5	98.3	96.9	8.86	1.45
	Fipronil	88.4	80.9	89.3	84.6	8.78	5.40
	Fipronil Desulfinyl	75.5	47.6	87.8	76.1	45.5	14.3
	Fipronil Sulfide	89.9	95.0	88.4	90.5	5.57	2.30
	Fipronil Sulfone	93.2	78.5	96.7	95.7	17.1	0.959
	Fonofos	99.1	85.2	80.0	92.4	15.0	14.4
	Gamma-BHC	109	109	105	109	0.0460	3.26
	Gamma-Chlordane	79.0	78.4	73.7	80.5	0.759	8.83
	Heptachlor	74.0	74.0	71.8	79.4	0.0804	10.1
	Heptachlor Epoxide	90.2	89.3	81.7	89.6	1.08	9.20
	Hexachlorobenzene	78.5	82.3	84.5	81.3	4.77	3.89
	Hexazinone	101	92.8	98.8	96.8	8.68	1.78
	Malathion	115	101	103	112	12.8	8.03
	Metalaxyl	97.6	82.4	84.9	85.7	17.0	0.998
	Methoxychlor	102	102	96.3	100	0.204	4.25
	Metolachlor	91.0	81.0	82.2	85.5	11.7	3.97
	Metribuzin	151	134	74.0	143	11.6	63.4
	Mevinphos	100	81.3	76.2	94.9	20.7	21.8
	Mirex	64.2	62.7	66.4	67.1	2.31	0.982
	Molinate	79.8	68.0	60.6	80.6	16.0	28.3
	Norflurazon	96.4	88.3	90.0	94.7	8.74	5.05
	Oxadiazon	84.6	76.1	82.2	78.8	10.7	4.24
	Parathion Ethyl	90.5	80.6	83.0	82.0	11.5	1.21
	Parathion Methyl	107	95.8	88.6	103	10.8	14.6
	Pendimethalin	85.1	75.0	80.8	82.8	12.6	2.53
	Permethrin	81.1	79.1	87.8	82.7	2.57	5.96
	Phorate	89.1	75.9	83.2	88.5	15.9	6.15
	Prodiamine	87.5	76.9	92.1	79.4	12.9	14.9
	Prometon	89.7	80.3	81.5	85.1	11.0	4.29
	Prometryn	84.3	82.9	82.7	82.0	1.66	0.750
	Simazine	106	92.1	75.0	84.8	14.0	7.84
	Tebuconazole	58.6	60.0	78.7	49.8	2.41	45.0
	Terbufos	99.7	84.4	85.0	98.3	16.6	14.6
	Terbuthylazine	93.0	84.8	86.6	90.4	9.26	4.33
	Trans-Nonachlor	80.7	79.6	80.3	73.4	1.35	9.00
	Trifluralin	91.2	91.1	93.2	92.0	0.0768	1.25
EPA 8276	Chlordane	82.4	85.4	87.9	90.6	3.58	3.08
	Toxaphene	84.7	81.1	88.0	84.2	4.35	4.46
EPA 8321B	2,4-D	123		116	104		8.47
	3-Hydroxycarbofuran	91.8		88.9	95.5		7.13

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8321B	Acesulfame K	116	81.0	80.1			1.11
	Acetaminophen	82.4	76.9	77.5			0.749
	Acetamiprid	102	104	104			0.151
	Afidopyropen	93.8	94.5	95.7			1.18
	Aldicarb	72.2	79.0	85.0			7.30
	Aldicarb Sulfone	93.5	90.6	93.5			3.12
	Aldicarb Sulfoxide	79.3	43.1	43.0			0.274
	AMPA	141	85.3	84.8			0.606
	Bentazon	97.4					0.997
	Benzovindiflupyr	94.8	92.3	93.4			1.16
	Carbamazepine	103	85.1	85.5			0.468
	Carbaryl	71.7	70.9	64.5			9.39
	Carbofuran	81.7	77.3	81.0			4.68
	Clothianidin	85.5	95.2	88.4			7.04
	Dinotefuran	90.1	108	105			2.16
	Diuron	103	84.7	85.1			0.415
	Endothall	89.2	84.3	87.1			3.27
	Fenuron	103	94.7	93.3			1.52
	Fluridone	92.8					0.743
	Glufosinate	104	85.5	87.8			2.71
	Glyphosate	119	77.6	79.4			2.27
	Hydrocodone	89.0	89.7	89.0			0.830
	Ibuprofen	84.4	77.5	73.4			5.44
	Imazapyr	86.5					4.79
	Imidacloprid	105	172	168			2.36
	Linuron	78.4	68.8	69.3			0.662
	Mandestrobin	94.6	89.2	86.9			2.57
	MCCP	114	109	98.3			10.5
	Methiocarb	72.7	67.7	72.6			6.92
	Methomyl	85.0	84.5	76.0			10.7
	Naproxen	103	76.8	62.1			21.2
	Oxamyl	89.7	83.1	81.3			2.17
	Primidone	90.3	103	97.2			6.05
	Propoxur	85.9	75.2	81.3			7.76
	Pyraclostrobin	83.4	85.2	83.4			2.12
	Sucralose	117	97.8	81.9			17.8
	Thiamethoxam	106	140	139			0.719
	Tolfenpyrad	60.5	60.7	55.2			9.44
	Triclopyr	87.5	91.8	82.3			10.8
SM 2120 B	Color (true)	99.3				2.48	
SM 2320 B-97	Total Alkalinity	104				0.101	
SM 2540 C-97	TDS					7.57	
SM 4500 F-C-97	Fluoride	97.6	96.5	95.4			1.01
SM 5310 B-00	Organic Carbon	102	103	103			0.153

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2131557
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2131583

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	2131583
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2131557
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2131557
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2131558
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2131558
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2131558
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2131558
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2131559
EPA 8270E / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	2131575
EPA 8270E / E31780	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2131576
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2131575
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	2131573
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2131574
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	2131574
SM 2120 B / E31780	True Color measured at 450 nm	2131557
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2131557
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2131557
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2131557
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2131557
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2131558

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	10/25/2019			10/25/2019 15:59	Blanca Fach	2131557
EPA 200.7 Rev. 4.4	10/25/2019	10/29/2019 15:25	Elliott D. Healy	10/30/2019 12:33	Betina Topolski	2131583
EPA 200.8 Rev. 5.4	10/25/2019	10/29/2019 15:25	Elliott D. Healy	11/13/2019 08:37	Robert K Palmer	2131583
	10/25/2019	10/29/2019 15:25	Elliott D. Healy	11/16/2019 02:05	Robert K Palmer	2131583
EPA 300.0 Rev. 2.1	10/25/2019			11/05/2019 02:47	Jhamieka S. Greenwood	2131557
EPA 350.1 Rev. 2.0	10/25/2019			10/31/2019 14:02	Ping Hua	2131558
EPA 351.2 Rev. 2.0	10/25/2019	10/31/2019 12:35	Sima Feizi	11/01/2019 14:58	Jhamieka S. Greenwood	2131558
EPA 353.2 Rev. 2.0	10/25/2019			10/28/2019 10:42	Beverly Y. Sanders	2131558
EPA 365.1 Rev. 2.0	10/25/2019	10/29/2019 13:09	Vijayalakshmi Reddy	10/30/2019 10:42	Lipi Saha	2131558
EPA 365.1 Rev. 2.0 dissolved	10/25/2019			10/25/2019 15:46	Jhamieka S. Greenwood	2131559
EPA 8270E	10/25/2019	10/28/2019 08:43	Rasheda Ghaffari	11/06/2019 06:42	Arthur Maknenko	2131575
	10/25/2019	10/28/2019 09:00	Fe-Val Siddell	11/01/2019 18:36	Vandana T. Nagar	2131576
EPA 8276	10/25/2019	10/28/2019 08:43	Rasheda Ghaffari	11/02/2019 11:00	Michael Poppell	2131575
EPA 8321B	10/25/2019	10/25/2019 14:00	Hoor Shaik	10/25/2019 22:48	Juyoung Kim	2131573
	10/25/2019	10/28/2019 11:00	Rebecca Ware	10/28/2019 14:01	Rebecca Ware	2131574
	10/25/2019	10/28/2019 11:00	Rebecca Ware	10/29/2019 13:39	Rebecca Ware	2131574
	10/25/2019	10/28/2019 11:00	Rebecca Ware	11/01/2019 21:07	Rebecca Ware	2131574
	10/25/2019	10/30/2019 09:00	Hoor Shaik	11/07/2019 02:45	Juyoung Kim	2131574
SM 2120 B	10/25/2019			10/25/2019 17:41	Madeline Funaro	2131557
SM 2320 B-97	10/25/2019			10/29/2019 08:33	Dale L. Simmons	2131557
SM 2540 C-97	10/25/2019			10/30/2019 15:03	Yijie Li	2131557
SM 2540 D-97	10/25/2019			10/30/2019 15:03	Yijie Li	2131557
SM 4500 F-C-97	10/25/2019			10/29/2019 08:33	Dale L. Simmons	2131557
SM 5310 B-00	10/25/2019			10/30/2019 04:51	Madeline Funaro	2131558