

Chemical Analysis Report

NE-DIST-2018-05-08-02

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

Event Description: **Olustee SCI, Cannon creek**
Request ID: **RQ-2018-04-23-10**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Suite 100
Jacksonville, FL 32256-7577
Attn: Jeremy Parrish

For additional information please contact
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Certified by: Colin Wright, Program Administrator

Date Certified: 04-JUN-2018 11:56



NON-CONFORMANCE REPORT INCLUDED

Case Narrative

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

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

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

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

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited 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: OLUSTEE CREEK @ 238

Collection Date/Time: 05/07/2018 11:45

Field ID: 21020009

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1990997	EPA 8321B	Aldicarb	0.020	U	ug/L	P344935	MS
		Aldicarb Sulfone	0.0020	U	ug/L	P344935	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P344935	
		Carbaryl	0.0020	U	ug/L	P344935	MS
		Carbofuran	0.0020	U	ug/L	P344935	MS
		3-Hydroxycarbofuran	0.0020	U	ug/L	P344935	
		Methiocarb	0.0020	U	ug/L	P344935	
		Methomyl	0.0020	U	ug/L	P344935	
		Oxamyl	0.0020	U	ug/L	P344935	
		Propoxur	0.0020	U	ug/L	P344935	MS
1990998		2,4-D	0.0020	U	ug/L	P344935	
		Bentazon	8.0E-04	UJ	ug/L	P344935	MS
		MCP	0.0020	U	ug/L	P344935	
		Triclopyr**	0.0040	U	ug/L	P344935	
		Imidacloprid	0.0020	U	ug/L	P344935	
		Diuron	0.0020	UJ	ug/L	P344935	MS
		Pyraclostrobin**	0.0020	U	ug/L	P344935	
		Primidone**	0.0040	U	ug/L	P344935	
		Linuron	0.0040	U	ug/L	P344935	
		Acetaminophen**	0.0080	U	ug/L	P344935	
		Fenuron	0.016	U	ug/L	P344935	
		Imazapyr**	0.050		ug/L	P344935	
		Carbamazepine**	4.0E-04	UJ	ug/L	P344935	MS
		Fluridone**	4.0E-04	U	ug/L	P344935	
		Hydrocodone**	8.0E-04	U	ug/L	P344935	
		Sucralose**	0.10	UJ	ug/L	P344930	SUR
		Glyphosate**	0.10	U	ug/L	P344930	
		AMPA**	0.10	U	ug/L	P344930	MS
		Endothal**	0.10	U	ug/L	P344930	MS, SUR
		Glufosinate**	0.10	U	ug/L	P344930	MS
1990999	EPA 8270D	Aldrin	4.1	U	ng/L	P345205	
		Alpha-BHC	2.1	U	ng/L	P345205	
		Beta-BHC	4.1	U	ng/L	P345205	
		Delta-BHC	4.1	U	ng/L	P345205	
		Gamma-BHC	4.1	U	ng/L	P345205	
		Carbophenothion	4.1	U	ng/L	P345205	
		Chlorothalonil	2.1	U	ng/L	P345205	
		Cypermethrin	21	U	ng/L	P345205	
		DDD-p,p'	3.1	U	ng/L	P345205	
		DDE-p,p'	3.1	U	ng/L	P345205	
		DDT-p,p'	3.1	U	ng/L	P345205	
		Dieldrin	4.1	U	ng/L	P345205	
		Endosulfan I	4.1	U	ng/L	P345205	
		Endosulfan II	4.1	U	ng/L	P345205	

Field ID: 21020009

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1990999	EPA 8270D	Endosulfan Sulfate	2.1	U	ng/L	P345205	
		Endrin	2.1	U	ng/L	P345205	
		Endrin Aldehyde	2.1	U	ng/L	P345205	
		Heptachlor	1.5	U	ng/L	P345205	
		Heptachlor Epoxide	2.1	U	ng/L	P345205	
		Methoxychlor	4.1	U	ng/L	P345205	
		Mirex	2.1	U	ng/L	P345205	
		Permethrin	10	U	ng/L	P345205	
		Trifluralin	1.0	U	ng/L	P345205	
		Alpha-Chlordane	1.0	U	ng/L	P345205	
		Gamma-Chlordane	1.0	U	ng/L	P345205	
		Endrin Ketone	2.1	U	ng/L	P345205	
		Dicofol	31	U	ng/L	P345205	
		Chlordane**	2.6	U	ng/L	P345205	
		Toxaphene**	31	U	ng/L	P345205	
1991000	EPA 8270D						
		Alachlor	0.24	U	ng/L	P345251	
		Ametryn	0.31	U	ng/L	P345251	
		Atrazine	0.58	I	ng/L	P345251	
		Atrazine Desethyl	1.4	U	ng/L	P345251	
		Azinphos Methyl	2.1	U	ng/L	P345251	
		Bromacil	0.47	U	ng/L	P345251	
		Butylate	0.38	U	ng/L	P345251	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P345251	
		Chlorpyrifos Methyl	0.094	U	ng/L	P345251	
		Demeton	1.9	U	ng/L	P345251	
		Diazinon	0.12	U	ng/L	P345251	
		Disulfoton	0.47	U	ng/L	P345251	
		EPTC	1.2	U	ng/L	P345251	
		Ethion	0.14	U	ng/L	P345251	
		Ethoprop	0.094	U	ng/L	P345251	
		Fenamiphos	0.24	U	ng/L	P345251	
		Fipronil	0.24	U	ng/L	P345251	
		Fipronil Sulfide	0.14	U	ng/L	P345251	
		Fipronil Sulfone	0.14	U	ng/L	P345251	
		Hexazinone	0.47	U	ng/L	P345251	
		Malathion	0.33	U	ng/L	P345251	
		Metribuzin	0.19	U	ng/L	P345251	
		Mevinphos	0.47	U	ng/L	P345251	
		Molinate	0.28	U	ng/L	P345251	
		Norflurazon	0.47	U	ng/L	P345251	
		Pendimethalin	0.94	U	ng/L	P345251	
		Phorate	0.24	U	ng/L	P345251	
		Prometon	0.85	U	ng/L	P345251	
		Prometryn	0.19	U	ng/L	P345251	
		Simazine	0.47	U	ng/L	P345251	

Field ID: 21020009

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1991000	EPA 8270D	Terbufos	0.094	U	ng/L	P345251	
		Terbuthylazine	0.40	U	ng/L	P345251	
		Fonofos	0.19	U	ng/L	P345251	
		Metaxyl	0.24	U	ng/L	P345251	
		Metolachlor	0.33	I	ng/L	P345251	
		Acetochlor	0.24	U	ng/L	P345251	
		Cyanazine	0.47	UJ	ng/L	P345251	CCV
		Parathion Ethyl	0.24	U	ng/L	P345251	
		Parathion Methyl	0.24	U	ng/L	P345251	

Ref. Method and Comment:

EPA 8321B: Refer to the narrative for an explanation of QC Codes.

EPA 8321B: Refer to the narrative for an explanation of QC Codes. Sucralose result confirmed in re-extraction.

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

Sample Location: GRASSY HOLD SPRING

Collection Date/Time: 05/07/2018 10:15

Field ID: 21030051FLA

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1991749	EPA 300.0 Rev. 2.1	Chloride	7.2		mg Cl/L	P345276	
		Sulfate	17		mg SO4/L	P345278	
	SM 2320 B-97	Total Alkalinity	154		mg CaCO3/L	P345481	
	SM 2540 C-97	TDS	211		mg/L	P345473	
	SM 2540 D-97	TSS	2	U	mg/L	P345284	
	SM 4500 F-C-97	Fluoride	0.18		mg F/L	P345484	
1991750	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P345267	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P345822	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.63		mg N/L	P345243	
	EPA 365.1 Rev. 2.0	Total-P	0.059		mg P/L	P345144	
	SM 5310 B-00	Organic Carbon	0.60	I	mg C/L	P345357	

Ref. Method and Comment:

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

Non-Conformance Report

NCR ID: 7024

Event(s)

Job(s)

Sample(s)

Test(s)

NE-DIST-2018-05-08-02

NCR Type: SHIPPING/RECEIVING

NCR Category: Samples arrived late

Observation: Samples arrived one or more days late by FedEx, samples received within the acceptable temperature range. Tracking number: 438550292124

Resolution: Customer Jeremy Parrish contacted, email correspondence attached to sample submittal forms. Data will be qualified as appropriate.

Authorized by/Date: Joshua Ayres 5/11/2018

The Non-Conformance Report details exceptions or problems encountered with the events/jobs/samples/test.
Please address questions to:

Chemistry Colin Wright (850) 245-8085
Biology Cheryl Swanson (850) 245-8177

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P345276

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P345278

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P345267

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P345822

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P345243

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P345144

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

Reference Method: EPA 8270D
Batch ID: P345205

Component	Result	Code	Units
Aldrin	4.0	U	ng/L
Alpha-BHC	2.0	U	ng/L
Alpha-Chlordane	1.0	U	ng/L
Beta-BHC	4.0	U	ng/L
Carbophenothion	4.0	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cypermethrin	20	U	ng/L
DDD-p,p'	3.0	U	ng/L
DDE-p,p'	3.0	U	ng/L
DDT-p,p'	3.0	U	ng/L
Delta-BHC	4.0	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D
Batch ID: P345205

Component	Result	Code	Units
Dicofol	30	U	ng/L
Dieldrin	4.0	U	ng/L
Endosulfan I	4.0	U	ng/L
Endosulfan II	4.0	U	ng/L
Endosulfan Sulfate	2.0	U	ng/L
Endrin	2.0	U	ng/L
Endrin Aldehyde	2.0	U	ng/L
Endrin Ketone	2.0	U	ng/L
Gamma-BHC	4.0	U	ng/L
Gamma-Chlordane	1.0	U	ng/L
Heptachlor	1.5	U	ng/L
Heptachlor Epoxide	2.0	U	ng/L
Methoxychlor	4.0	U	ng/L
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Trifluralin	1.0	U	ng/L

Reference Method: EPA 8270D
Batch ID: P345251

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D

Batch ID: P345251

Component	Result	Code	Units
Parathion Methyl	0.25	U	ng/L
Pendimethalin	1.0	U	ng/L
Phorate	0.25	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Simazine	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L

Reference Method: EPA 8276

Batch ID: P345205

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

Reference Method: EPA 8321B

Batch ID: P344930

Component	Result	Code	Units
AMPA	0.10	U	ug/L
Endothall	0.10	U	ug/L
Glufosinate	0.10	U	ug/L
Glyphosate	0.10	U	ug/L
Sucralose	0.10	U	ug/L

Reference Method: EPA 8321B

Batch ID: P344935

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
3-Hydroxycarbofuran	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Aldicarb	0.020	U	ug/L
Aldicarb Sulfone	0.0020	U	ug/L
Aldicarb Sulfoxide	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Carbamazepine	4.0E-04	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	4.0E-04	U	ug/L
Hydrocodone	8.0E-04	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
MCPP	0.0020	U	ug/L
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Oxamyl	0.0020	U	ug/L
Primidone	0.0040	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P344935

Component	Result	Code	Units
Propoxur	0.0020	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-97
Batch ID: P345481

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

Reference Method: SM 2540 C-97
Batch ID: P345473

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P345284

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P345484

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P345357

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P345276

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P345278

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	95.6		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P345267

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P345822

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P345243

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: P345144

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

Reference Method: EPA 8270D
Batch ID: P345205

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	60.0	56.0	P/P	24 - 89.0
Alpha-BHC	90.4	83.4	P/P	58 - 117
Alpha-Chlordane	82.4	75.0	P/P	56 - 115
Beta-BHC	90.3	90.1	P/P	55 - 137
Carbophenothion	106	105	P/P	37 - 145
Chlorothalonil	98.8	79.5	P/P	26 - 163
Cypermethrin	68.4	69.1	P/P	42 - 156
DDD-p,p'	93.6	91.6	P/P	59 - 129
DDE-p,p'	86.3	77.4	P/P	52 - 117
DDT-p,p'	89.3	83.9	P/P	48 - 128
Delta-BHC	116	111	P/P	59 - 158
Dicofol	80.0	72.0	P/P	19 - 124
Dieldrin	91.8	81.1	P/P	57 - 126
Endosulfan I	94.6	89.2	P/P	59 - 133
Endosulfan II	83.8	87.0	P/P	58 - 148
Endosulfan Sulfate	91.5	97.5	P/P	56 - 135
Endrin	92.7	79.1	P/P	50 - 140
Endrin Aldehyde	97.2	87.2	P/P	47 - 141
Endrin Ketone	90.9	91.6	P/P	63 - 123
Gamma-BHC	79.4	101	P/P	59 - 132
Gamma-Chlordane	80.6	73.0	P/P	55 - 112
Heptachlor	68.5	59.1	P/P	45 - 102
Heptachlor Epoxide	84.9	77.5	P/P	61 - 116
Methoxychlor	89.6	83.8	P/P	60 - 133
Mirex	68.5	61.4	P/P	40 - 98.0
Permethrin	79.1	73.9	P/P	45 - 131
Trifluralin	78.8	75.1	P/P	38 - 179

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P345251

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	92.0	95.0	P/P	74 - 119
Alachlor	93.6	96.6	P/P	75 - 118
Ametryn	86.9	73.0	P/P	59 - 137
Atrazine	94.3	99.3	P/P	73 - 120
Atrazine Desethyl	96.9	97.0	P/P	19 - 129
Azinphos Methyl	94.8	92.5	P/P	65 - 181
Bromacil	81.9	80.5	P/P	43 - 123
Butylate	58.8	60.8	P/P	28 - 85.0
Chlorpyrifos Ethyl	88.3	89.9	P/P	55 - 112
Chlorpyrifos Methyl	89.9	90.0	P/P	35 - 124
Cyanazine	186	191	P/P	26 - 262
Demeton	64.8	68.7	P/P	43 - 122
Diazinon	100	104	P/P	72 - 120
Disulfoton	85.2	88.9	P/P	45 - 137
EPTC	55.5	59.0	P/P	28 - 95.0
Ethion	87.3	93.3	P/P	63 - 127
Ethoprop	68.8	80.7	P/P	63 - 109
Fenamiphos	89.6	89.7	P/P	66 - 136
Fipronil	84.6	81.8	P/P	63 - 126
Fipronil Sulfide	74.9	71.1	P/P	59 - 123
Fipronil Sulfone	69.3	66.2	P/P	56 - 122
Fonofos	91.4	91.3	P/P	64 - 114
Hexazinone	93.8	103	P/P	49 - 144
Malathion	84.4	84.8	P/P	68 - 131
Metaxyl	93.3	93.8	P/P	57 - 126
Metolachlor	91.5	95.6	P/P	75 - 118
Metribuzin	152	156	P/P	46 - 169
Mevinphos	73.9	65.3	P/P	34 - 126
Molinate	57.6	65.6	P/P	37 - 101
Norflurazon	69.2	72.1	P/P	63 - 127
Parathion Ethyl	91.2	94.2	P/P	78 - 109
Parathion Methyl	90.4	90.3	P/P	74 - 123
Pendimethalin	111	121	P/P	51 - 130
Phorate	79.6	78.6	P/P	53 - 116
Prometon	90.0	88.8	P/P	66 - 124
Prometryn	91.7	96.5	P/P	66 - 124
Simazine	97.9	103	P/P	62 - 134
Terbufos	89.1	91.6	P/P	59 - 115
Terbutylazine	94.3	97.1	P/P	76 - 113

Reference Method: EPA 8276
Batch ID: P345205

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	82.9	94.9	P/P	47 - 125
Toxaphene	55.1	62.2	P/P	46 - 147

Reference Method: EPA 8321B
Batch ID: P344930

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
AMPA	93.2		P	40 - 140

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P344930

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endothall	97.3		P	40 - 140
Glufosinate	95.9		P	40 - 140
Glyphosate	98.5		P	40 - 140
Sucralose	118		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P344935

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	104		P	40 - 150
3-Hydroxycarbofuran	97.2		P	40 - 150
Acetaminophen	93.4		P	30 - 150
Aldicarb	84.2		P	30 - 150
Aldicarb Sulfone	109		P	40 - 150
Aldicarb Sulfoxide	106		P	40 - 150
Bentazon	102		P	30 - 150
Carbamazepine	67.4		P	40 - 150
Carbaryl	64.5		P	40 - 150
Carbofuran	66.2		P	40 - 150
Diuron	65.0		P	40 - 150
Fenuron	107		P	40 - 150
Fluridone	85.4		P	40 - 150
Hydrocodone	109		P	40 - 150
Imazapyr	103		P	40 - 150
Imidacloprid	113		P	40 - 160
Linuron	101		P	40 - 150
MCPP	109		P	40 - 150
Methiocarb	88.1		P	40 - 150
Methomyl	107		P	40 - 150
Oxamyl	92.8		P	40 - 150
Primidone	103		P	40 - 150
Propoxur	64.2		P	40 - 150
Pyraclostrobin	83.4		P	40 - 150
Triclopyr	109		P	40 - 150

Reference Method: SM 2320 B-97
Batch ID: P345481

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	98 - 107

Reference Method: SM 4500 F-C-97
Batch ID: P345484

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	94.6		P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P345357

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.1		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P345276

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1991701	Chloride	94.7		P	90 - 110
1991778	Chloride	95.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P345278

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1991701	Sulfate	94.0		P	90 - 110
1991778	Sulfate	93.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P345267

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1991734	Ammonia-N	91.6	94.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P345822

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1991781	Kjeldahl Nitrogen	95.7	98.7	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P345243

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1991735	NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P345144

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1991750	Total-P	101	101	P/P	90 - 110

Reference Method: EPA 8270D
Batch ID: P345205

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1991306	Aldrin	56.6	49.2	P/P	26 - 96.0
1991306	Alpha-BHC	86.6	76.4	P/P	51 - 123
1991306	Alpha-Chlordane	77.9	72.6	P/P	45 - 120
1991306	Beta-BHC	100	91.2	P/P	43 - 146
1991306	Carbophenothion	114	110	P/P	26 - 179
1991306	Chlorothalonil	69.0	74.2	P/P	10 - 215
1991306	Cypermethrin	77.5	73.4	P/P	35 - 169
1991306	DDD-p,p'	90.7	89.1	P/P	49 - 131
1991306	DDE-p,p'	80.3	74.4	P/P	39 - 127
1991306	DDT-p,p'	88.5	76.9	P/P	49 - 120
1991306	Delta-BHC	123	121	P/P	49 - 187
1991306	Dicofol	81.0	67.6	P/P	10 - 129
1991306	Dieldrin	82.2	78.4	P/P	46 - 132
1991306	Endosulfan I	83.5	79.0	P/P	57 - 130

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D

Batch ID: P345205

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1991306	Endosulfan II	80.8	78.1	P/P	52 - 148
1991306	Endosulfan Sulfate	89.8	83.8	P/P	55 - 129
1991306	Endrin	79.5	86.7	P/P	45 - 133
1991306	Endrin Aldehyde	75.1	75.6	P/P	26 - 140
1991306	Endrin Ketone	102	94.6	P/P	60 - 125
1991306	Gamma-BHC	100	91.2	P/P	50 - 145
1991306	Gamma-Chlordane	74.8	71.0	P/P	44 - 118
1991306	Heptachlor	58.7	51.5	P/P	35 - 106
1991306	Heptachlor Epoxide	79.8	73.6	P/P	52 - 123
1991306	Methoxychlor	83.2	78.0	P/P	54 - 132
1991306	Mirex	63.4	60.2	P/P	36 - 107
1991306	Permethrin	77.4	66.2	P/P	47 - 135
1991306	Trifluralin	79.2	69.9	P/P	32 - 228

Reference Method: EPA 8270D

Batch ID: P345251

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1990887	Acetochlor	99.5	94.0	P/P	67 - 125
1990887	Alachlor	83.5	81.4	P/P	69 - 123
1990887	Ametryn	92.7	83.5	P/P	52 - 151
1990887	Atrazine Desethyl	106	108	P/P	10 - 129
1990887	Azinphos Methyl	82.5	85.2	P/P	48 - 200
1990887	Bromacil	115	117	P/P	46 - 130
1990887	Butylate	45.1	49.2	P/P	10 - 85.0
1990887	Chlorpyrifos Ethyl	88.4	83.5	P/P	54 - 115
1990887	Chlorpyrifos Methyl	91.5	88.4	P/P	44 - 117
1990887	Cyanazine	156	163	P/P	10 - 262
1990887	Demeton	59.9	62.2	P/P	24 - 145
1990887	Diazinon	114	112	P/P	66 - 129
1990887	Disulfoton	102	95.3	P/P	45 - 139
1990887	EPTC	44.5	45.4	P/P	10 - 86.0
1990887	Ethion	92.0	87.7	P/P	59 - 133
1990887	Ethoprop	97.8	76.7	P/P	54 - 116
1990887	Fenamiphos	92.2	82.7	P/P	55 - 140
1990887	Fipronil	75.1	70.3	P/P	37 - 142
1990887	Fipronil Sulfide	66.2	58.2	P/P	37 - 130
1990887	Fipronil Sulfone	54.6	45.3	P/P	18 - 143
1990887	Fonofos	101	99.7	P/P	55 - 118
1990887	Hexazinone	106	101	P/P	62 - 140
1990887	Malathion	90.9	88.1	P/P	64 - 132
1990887	Metalaxyl	92.5	97.0	P/P	55 - 129
1990887	Metolachlor	97.4	95.0	P/P	56 - 137
1990887	Metribuzin	166	177	P/P	16 - 218
1990887	Mevinphos	76.5	78.0	P/P	34 - 129
1990887	Molinate	62.4	57.9	P/P	16 - 99.0
1990887	Norflurazon	60.6	50.8	P/P	43 - 135
1990887	Parathion Ethyl	92.8	96.8	P/P	71 - 112
1990887	Parathion Methyl	96.6	91.4	P/P	65 - 127
1990887	Pendimethalin	138	131	P/P	35 - 159
1990887	Phorate	83.6	91.1	P/P	41 - 129
1990887	Prometon	82.6	94.2	P/P	56 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P345251

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1990887	Prometryn	96.5	96.6	P/P	65 - 130
1990887	Terbufos	106	106	P/P	53 - 126
1990887	Terbutylazine	99.8	99.2	P/P	73 - 114

Reference Method: EPA 8276
Batch ID: P345205

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1991313	Chlordane	100	128	P/P	41 - 134
1991313	Toxaphene	59.4	60.2	P/P	39 - 158

Reference Method: EPA 8321B
Batch ID: P344930

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1990331	AMPA	36.9	34.5	F/F	40 - 140
1990331	Endothall	169	160	F/F	40 - 140
1990331	Glufosinate	183	139	F/P	40 - 140
1990331	Glyphosate	51.9	59.6	P/P	40 - 140
1990331	Sucralose	77.9	77.2	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P344935

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1990998	2,4-D	74.1	71.4	P/P	40 - 150
1990998	3-Hydroxycarbofuran	46.8	50.8	P/P	40 - 150
1990998	Acetaminophen	71.6	72.9	P/P	30 - 150
1990998	Aldicarb	15.6	19.1	F/F	30 - 150
1990998	Aldicarb Sulfone	63.0	63.9	P/P	40 - 150
1990998	Aldicarb Sulfoxide	57.7	60.9	P/P	40 - 150
1990998	Bentazon	25.7	27.9	F/F	30 - 150
1990998	Carbamazepine	33.9	35.1	F/F	40 - 150
1990998	Carbaryl	32.2	33.6	F/F	40 - 150
1990998	Carbofuran	30.3	30.6	F/F	40 - 150
1990998	Diuron	37.5	38.0	F/F	40 - 150
1990998	Fenuron	42.6	46.5	P/P	40 - 150
1990998	Fluridone	63.7	66.1	P/P	40 - 150
1990998	Hydrocodone	67.5	71.6	P/P	40 - 150
1990998	Imazapyr	91.0	89.8	P/P	40 - 150
1990998	Imidacloprid	102	103	P/P	40 - 160
1990998	Linuron	78.7	77.8	P/P	40 - 150
1990998	MCCP	65.8	60.1	P/P	40 - 150
1990998	Methiocarb	59.8	66.1	P/P	40 - 150
1990998	Methomyl	50.2	51.6	P/P	40 - 150
1990998	Oxamyl	53.9	55.0	P/P	40 - 150
1990998	Primidone	60.5	55.6	P/P	40 - 150
1990998	Propoxur	27.3	29.0	F/F	40 - 150
1990998	Pyraclostrobin	69.1	69.7	P/P	40 - 150
1990998	Triclopyr	77.8	78.2	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P345484

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1991780	Fluoride	95.2	96.6	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P345357

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1991704	Organic Carbon	96.4	95.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P345276

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1991701	Chloride	0.702	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P345278

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1991701	Sulfate	0.645	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P345267

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1991734	Ammonia-N	2.02	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P345822

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1991781	Kjeldahl Nitrogen	1.92	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P345243

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1991735	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P345144

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P345144

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1991750	Total-P	0.324	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P345205

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1991306	Aldrin	14.1	Spike	P	0 - 30
1991306	Alpha-BHC	12.6	Spike	P	0 - 30
1991306	Alpha-Chlordane	7.01	Spike	P	0 - 30
1991306	Beta-BHC	9.43	Spike	P	0 - 30
1991306	Carbophenothion	3.74	Spike	P	0 - 30
1991306	Chlorothalonil	7.24	Spike	P	0 - 30
1991306	Cypermethrin	5.54	Spike	P	0 - 30
1991306	DDD-p,p'	1.82	Spike	P	0 - 30
1991306	DDE-p,p'	7.57	Spike	P	0 - 30
1991306	DDT-p,p'	14.1	Spike	P	0 - 30
1991306	Delta-BHC	1.50	Spike	P	0 - 30
1991306	Dicofol	18.0	Spike	P	0 - 30
1991306	Dieldrin	4.77	Spike	P	0 - 30
1991306	Endosulfan I	5.56	Spike	P	0 - 30
1991306	Endosulfan II	3.45	Spike	P	0 - 30
1991306	Endosulfan Sulfate	6.90	Spike	P	0 - 30
1991306	Endrin	8.60	Spike	P	0 - 30
1991306	Endrin Aldehyde	0.638	Spike	P	0 - 30
1991306	Endrin Ketone	7.86	Spike	P	0 - 30
1991306	Gamma-BHC	9.43	Spike	P	0 - 30
1991306	Gamma-Chlordane	5.19	Spike	P	0 - 30
1991306	Heptachlor	13.1	Spike	P	0 - 30
1991306	Heptachlor Epoxide	8.02	Spike	P	0 - 30
1991306	Methoxychlor	6.46	Spike	P	0 - 30
1991306	Mirex	5.12	Spike	P	0 - 30
1991306	Permethrin	15.6	Spike	P	0 - 30
1991306	Trifluralin	12.5	Spike	P	0 - 30
LFB	Aldrin	6.95	LCS	P	0 - 30
LFB	Alpha-BHC	8.08	LCS	P	0 - 30
LFB	Alpha-Chlordane	9.39	LCS	P	0 - 30
LFB	Beta-BHC	0.210	LCS	P	0 - 30
LFB	Carbophenothion	0.565	LCS	P	0 - 30
LFB	Chlorothalonil	21.6	LCS	P	0 - 30
LFB	Cypermethrin	1.04	LCS	P	0 - 30
LFB	DDD-p,p'	2.23	LCS	P	0 - 30
LFB	DDE-p,p'	10.9	LCS	P	0 - 30
LFB	DDT-p,p'	6.29	LCS	P	0 - 30
LFB	Delta-BHC	4.21	LCS	P	0 - 30
LFB	Dicofol	10.4	LCS	P	0 - 30
LFB	Dieldrin	12.4	LCS	P	0 - 30
LFB	Endosulfan I	5.92	LCS	P	0 - 30
LFB	Endosulfan II	3.83	LCS	P	0 - 30
LFB	Endosulfan Sulfate	6.33	LCS	P	0 - 30
LFB	Endrin	15.8	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P345205

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Endrin Aldehyde	10.8	LCS	P	0 - 30
LFB	Endrin Ketone	0.790	LCS	P	0 - 30
LFB	Gamma-BHC	23.5	LCS	P	0 - 30
LFB	Gamma-Chlordane	9.93	LCS	P	0 - 30
LFB	Heptachlor	14.7	LCS	P	0 - 30
LFB	Heptachlor Epoxide	9.13	LCS	P	0 - 30
LFB	Methoxychlor	6.67	LCS	P	0 - 30
LFB	Mirex	10.9	LCS	P	0 - 30
LFB	Permethrin	6.86	LCS	P	0 - 30
LFB	Trifluralin	4.75	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P345251

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1990887	Acetochlor	5.66	Spike	P	0 - 30
1990887	Alachlor	2.24	Spike	P	0 - 30
1990887	Ametryn	10.5	Spike	P	0 - 30
1990887	Atrazine	0.386	Spike	P	0 - 30
1990887	Atrazine Desethyl	2.18	Spike	P	0 - 30
1990887	Azinphos Methyl	3.25	Spike	P	0 - 30
1990887	Bromacil	2.01	Spike	P	0 - 30
1990887	Butylate	8.61	Spike	P	0 - 30
1990887	Chlorpyrifos Ethyl	5.65	Spike	P	0 - 30
1990887	Chlorpyrifos Methyl	3.41	Spike	P	0 - 30
1990887	Cyanazine	4.30	Spike	P	0 - 30
1990887	Demeton	3.64	Spike	P	0 - 30
1990887	Diazinon	1.51	Spike	P	0 - 30
1990887	Disulfoton	6.36	Spike	P	0 - 30
1990887	EPTC	2.15	Spike	P	0 - 30
1990887	Ethion	4.78	Spike	P	0 - 30
1990887	Ethoprop	24.2	Spike	P	0 - 30
1990887	Fenamiphos	10.9	Spike	P	0 - 30
1990887	Fipronil	5.58	Spike	P	0 - 30
1990887	Fipronil Sulfide	7.13	Spike	P	0 - 30
1990887	Fipronil Sulfone	6.30	Spike	P	0 - 30
1990887	Fonofos	0.928	Spike	P	0 - 30
1990887	Hexazinone	5.43	Spike	P	0 - 30
1990887	Malathion	3.16	Spike	P	0 - 30
1990887	Metalaxyl	4.71	Spike	P	0 - 30
1990887	Metolachlor	2.41	Spike	P	0 - 30
1990887	Metribuzin	6.39	Spike	P	0 - 30
1990887	Mevinphos	1.93	Spike	P	0 - 30
1990887	Molinate	7.42	Spike	P	0 - 30
1990887	Norflurazon	17.7	Spike	P	0 - 30
1990887	Parathion Ethyl	4.22	Spike	P	0 - 30
1990887	Parathion Methyl	5.48	Spike	P	0 - 30
1990887	Pendimethalin	4.86	Spike	P	0 - 30
1990887	Phorate	8.55	Spike	P	0 - 30
1990887	Prometon	8.17	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P345251

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1990887	Prometryn	0.0550	Spike	P	0 - 30
1990887	Simazine	7.53	Spike	P	0 - 30
1990887	Terbufos	0.436	Spike	P	0 - 30
1990887	Terbutylazine	0.626	Spike	P	0 - 30
LFB	Acetochlor	3.20	LCS	P	0 - 30
LFB	Alachlor	3.20	LCS	P	0 - 30
LFB	Ametryn	17.4	LCS	P	0 - 30
LFB	Atrazine	5.25	LCS	P	0 - 30
LFB	Atrazine Desethyl	0.0371	LCS	P	0 - 30
LFB	Azinphos Methyl	2.45	LCS	P	0 - 30
LFB	Bromacil	1.75	LCS	P	0 - 30
LFB	Butylate	3.40	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	1.74	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	0.124	LCS	P	0 - 30
LFB	Cyanazine	2.76	LCS	P	0 - 30
LFB	Demeton	5.79	LCS	P	0 - 30
LFB	Diazinon	4.13	LCS	P	0 - 30
LFB	Disulfoton	4.25	LCS	P	0 - 30
LFB	EPTC	6.06	LCS	P	0 - 30
LFB	Ethion	6.65	LCS	P	0 - 30
LFB	Ethoprop	16.0	LCS	P	0 - 30
LFB	Fenamiphos	0.116	LCS	P	0 - 30
LFB	Fipronil	3.32	LCS	P	0 - 30
LFB	Fipronil Sulfide	5.22	LCS	P	0 - 30
LFB	Fipronil Sulfone	4.55	LCS	P	0 - 30
LFB	Fonofos	0.181	LCS	P	0 - 30
LFB	Hexazinone	8.99	LCS	P	0 - 30
LFB	Malathion	0.453	LCS	P	0 - 30
LFB	Metalaxyl	0.457	LCS	P	0 - 30
LFB	Metolachlor	4.34	LCS	P	0 - 30
LFB	Metribuzin	2.75	LCS	P	0 - 30
LFB	Mevinphos	12.4	LCS	P	0 - 30
LFB	Molinate	12.9	LCS	P	0 - 30
LFB	Norflurazon	4.14	LCS	P	0 - 30
LFB	Parathion Ethyl	3.29	LCS	P	0 - 30
LFB	Parathion Methyl	0.0664	LCS	P	0 - 30
LFB	Pendimethalin	8.60	LCS	P	0 - 30
LFB	Phorate	1.30	LCS	P	0 - 30
LFB	Prometon	1.42	LCS	P	0 - 30
LFB	Prometryn	5.03	LCS	P	0 - 30
LFB	Simazine	5.22	LCS	P	0 - 30
LFB	Terbufos	2.74	LCS	P	0 - 30
LFB	Terbutylazine	2.97	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P345205

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1991313	Chlordane	24.4	Spike	P	0 - 30
1991313	Toxaphene	1.33	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P345205

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Chlordane	13.5	LCS	P	0 - 30
LFB	Toxaphene	12.2	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P344930

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1990331	AMPA	4.14	Spike	P	0 - 30
1990331	Endothall	5.17	Spike	P	0 - 30
1990331	Glufosinate	27.7	Spike	P	0 - 30
1990331	Glyphosate	7.12	Spike	P	0 - 30
1990331	Sucralose	0.843	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P344935

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1990998	2,4-D	3.71	Spike	P	0 - 30
1990998	3-Hydroxycarbofuran	8.18	Spike	P	0 - 30
1990998	Acetaminophen	1.78	Spike	P	0 - 30
1990998	Aldicarb	20.5	Spike	P	0 - 30
1990998	Aldicarb Sulfone	1.29	Spike	P	0 - 30
1990998	Aldicarb Sulfoxide	5.44	Spike	P	0 - 30
1990998	Bentazon	8.36	Spike	P	0 - 30
1990998	Carbamazepine	3.60	Spike	P	0 - 30
1990998	Carbaryl	4.26	Spike	P	0 - 30
1990998	Carbofuran	1.04	Spike	P	0 - 30
1990998	Diuron	1.32	Spike	P	0 - 30
1990998	Fenuron	8.76	Spike	P	0 - 30
1990998	Fluridone	3.74	Spike	P	0 - 30
1990998	Hydrocodone	5.84	Spike	P	0 - 30
1990998	Imazapyr	0.809	Spike	P	0 - 30
1990998	Imidacloprid	0.974	Spike	P	0 - 30
1990998	Linuron	1.24	Spike	P	0 - 30
1990998	MCP	9.09	Spike	P	0 - 30
1990998	Methiocarb	9.88	Spike	P	0 - 30
1990998	Methomyl	2.63	Spike	P	0 - 30
1990998	Oxamyl	1.98	Spike	P	0 - 30
1990998	Primidone	8.44	Spike	P	0 - 30
1990998	Propoxur	5.89	Spike	P	0 - 30
1990998	Pyraclostrobin	0.775	Spike	P	0 - 30
1990998	Triclopyr	0.510	Spike	P	0 - 30

Reference Method: SM 2320 B-97
Batch ID: P345481

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1991780	Total Alkalinity	1.11	Sample	P	0 - 1.6

Quality Assurance Report Precision

Reference Method: SM 2540 C-97
Batch ID: P345473

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1991721	TDS	3.15	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P345484

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1991780	Fluoride	0.986	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
Batch ID: P345357

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1991704	Organic Carbon	1.26	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: 1990997
Field Sample ID: 21020009

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	34.5	P	30 - 160

Lab Sample ID: 1990998
Field Sample ID: 21020009

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	66.0	P	30 - 160
EPA 8321B	Acetaminophen-d4	71.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	39.9	P	30 - 160
EPA 8321B	Diuron-d6	37.1	P	30 - 160
EPA 8321B	Endothall-d6	204	F	50 - 160
EPA 8321B	Glyphosate 13C 15N	108	P	40 - 160
EPA 8321B	Primidone-d5	55.3	P	30 - 160
EPA 8321B	Sucralose-d6	35.3	F	40 - 160

Lab Sample ID: 1990999
Field Sample ID: 21020009

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	81.9	P	37 - 117
EPA 8270D	Tetrachloro-m-xylene	56.3	P	34 - 101
EPA 8276	Decachlorobiphenyl	71.6	P	31 - 108
EPA 8276	PCNB	93.2	P	62 - 142

Quality Assurance Report Surrogates

Lab Sample ID: 1991000
Field Sample ID: 21020009

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	105	P	71 - 126
EPA 8270D	Terbufos-d10	106	P	59 - 149

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A83732
Included Lab Sample IDs: 1991749

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.1	98.5	P/P	90 - 110
Sulfate	97.3	98.7	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A83865
Included Lab Sample IDs: 1991750

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A83877
Included Lab Sample IDs: 1991750

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.2	100	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A83887
Included Lab Sample IDs: 1990998

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	110	109	P/P	50 - 150
Bentazon	110	120	P/P	50 - 150
MCP	102	110	P/P	50 - 150
Triclopyr	103	112	P/P	50 - 160

Reference Method: SM 5310 B-00
Run ID: A83906
Included Lab Sample IDs: 1991750

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	93.8	94.2	P/P	90 - 110

Reference Method: SM 2320 B-97
Run ID: A83969
Included Lab Sample IDs: 1991749

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.4	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500 F-C-97

Run ID: A83969

Included Lab Sample IDs: 1991749

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.1	97.6	P/P	90 - 110

Reference Method: EPA 8270D

Run ID: A83980

Included Lab Sample IDs: 1990999

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	98.9		P	80 - 120
Alpha-BHC	98.3		P	80 - 120
Alpha-Chlordane	98.0		P	80 - 120
Beta-BHC	101		P	80 - 120
Carbophenothion	93.0		P	80 - 120
Chlorothalonil	91.2		P	80 - 120
Cypermethrin	88.3		P	80 - 120
DDD-p,p'	101		P	80 - 120
DDE-p,p'	101		P	80 - 120
DDT-p,p'	107		P	80 - 120
Delta-BHC	102		P	80 - 120
Dicofol	104		P	80 - 120
Dieldrin	101		P	80 - 120
Endosulfan I	98.2		P	80 - 120
Endosulfan II	98.8		P	80 - 120
Endosulfan Sulfate	94.8		P	80 - 120
Endrin	92.4		P	80 - 120
Endrin Aldehyde	93.8		P	80 - 120
Endrin Ketone	96.3		P	80 - 120
Gamma-BHC	101		P	80 - 120
Gamma-Chlordane	99.4		P	80 - 120
Heptachlor	95.8		P	80 - 120
Heptachlor Epoxide	99.1		P	80 - 120
Methoxychlor	106		P	80 - 120
Mirex	98.7		P	80 - 120
Permethrin	92.9		P	80 - 120
Trifluralin	99.8		P	80 - 120

Reference Method: EPA 8321B

Run ID: A83982

Included Lab Sample IDs: 1990998

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	110	103	P/P	60 - 160
Endothall	104	105	P/P	60 - 160
Glufosinate	113	123	P/P	60 - 160
Glyphosate	115	117	P/P	60 - 160
Sucralose	106	105	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A83997

Included Lab Sample IDs: 1991750

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A83997

Included Lab Sample IDs: 1991750

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

Reference Method: EPA 8270D

Run ID: A84068

Included Lab Sample IDs: 1991000

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	105		P	80 - 120
Ametryn	110		P	80 - 120
Atrazine	103		P	80 - 120
Atrazine Desethyl	88.9		P	80 - 120
Azinphos Methyl	96.9		P	80 - 120
Bromacil	109		P	80 - 120
Butylate	105		P	80 - 120
Chlorpyrifos Ethyl	94.7		P	80 - 120
Chlorpyrifos Methyl	95.7		P	80 - 120
Cyanazine	72.9*		F	80 - 120
Demeton	97.3		P	80 - 120
Diazinon	101		P	80 - 120
Disulfoton	94.5		P	80 - 120
EPTC	104		P	80 - 120
Ethion	93.5		P	80 - 120
Ethoprop	89.5		P	80 - 120
Fenamiphos	89.5		P	80 - 120
Fipronil	102		P	80 - 120
Fipronil Sulfide	93.2		P	80 - 120
Fipronil Sulfone	95.5		P	80 - 120
Fonofos	95.9		P	80 - 120
Hexazinone	98.1		P	80 - 120
Malathion	96.1		P	80 - 120
Metalaxyl	107		P	80 - 120
Metolachlor	108		P	80 - 120
Metribuzin	80.0		P	80 - 120
Mevinphos	98.3		P	80 - 120
Molinate	104		P	80 - 120
Norflurazon	101		P	80 - 120
Parathion Ethyl	93.5		P	80 - 120
Parathion Methyl	92.2		P	80 - 120
Pendimethalin	98.4		P	80 - 120
Phorate	92.9		P	80 - 120
Prometon	104		P	80 - 120
Prometryn	104		P	80 - 120
Simazine	97.0		P	80 - 120
Terbufos	93.5		P	80 - 120
Terbutylazine	97.1		P	80 - 120

Reference Method: EPA 8270D

Run ID: A84069

Included Lab Sample IDs: 1991000

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

Reference Method: EPA 8270D
Run ID: A84069
Included Lab Sample IDs: 1991000

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

Reference Method: EPA 8276
Run ID: A84100
Included Lab Sample IDs: 1990999

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.0		P	80 - 120
Toxaphene	105		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A84147
Included Lab Sample IDs: 1991750

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.0	97.2	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A84227
Included Lab Sample IDs: 1990997

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	103	100	P/P	50 - 150
Aldicarb	110	97.7	P/P	60 - 150
Aldicarb Sulfone	106	106	P/P	50 - 150
Aldicarb Sulfoxide	105	102	P/P	50 - 150
Carbaryl	96.7	93.2	P/P	60 - 150
Carbofuran	85.8	89.3	P/P	50 - 150
Methiocarb	97.6	94.4	P/P	50 - 150
Methomyl	106	99.6	P/P	50 - 150
Oxamyl	103	103	P/P	50 - 150
Propoxur	88.4	84.1	P/P	50 - 150

Reference Method: EPA 8321B
Run ID: A84229
Included Lab Sample IDs: 1990998

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetaminophen	101	102	P/P	60 - 150
Carbamazepine	92.5	94.1	P/P	60 - 150
Diuron	94.9	97.2	P/P	60 - 150
Fenuron	99.8	102	P/P	60 - 150
Fluridone	94.1	99.0	P/P	60 - 160
Hydrocodone	106	107	P/P	60 - 150
Imazapyr	113	99.2	P/P	50 - 150
Imidacloprid	104	102	P/P	60 - 150
Linuron	110	111	P/P	60 - 150
Primidone	94.5	107	P/P	60 - 150
Pyraclostrobin	95.5	100	P/P	60 - 150

Quality Assurance Report Calibration Verification

* Pass/Fail determinations are made for each bracketing calibration verification check.
Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.
Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision	MS
							SMP	
EPA 300.0 Rev. 2.1	Chloride	96.2		94.7	95.5		0.702	
	Sulfate	95.6		94.0	93.8		0.645	
EPA 350.1 Rev. 2.0	Ammonia-N	101		91.6	94.4			2.02
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	96.3		95.7	98.7			1.92
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100		100	100			0.0
EPA 365.1 Rev. 2.0	Total-P	102		101	101			0.324
EPA 8270D	Acetochlor	92.0	95.0	99.5	94.0	3.20		5.66
	Alachlor	93.6	96.6	81.4	83.5	3.20		2.24
	Aldrin	60.0	56.0	56.6	49.2	6.95		14.1
	Alpha-BHC	90.4	83.4	86.6	76.4	8.08		12.6
	Alpha-Chlordane	82.4	75.0	77.9	72.6	9.39		7.01
	Ametryn	86.9	73.0	83.5	92.7	17.4		10.5
	Atrazine	94.3	99.3			5.25		0.386
	Atrazine Desethyl	96.9	97.0	106	108	0.0371		2.18
	Azinphos Methyl	94.8	92.5	82.5	85.2	2.45		3.25
	Beta-BHC	90.3	90.1	100	91.2	0.210		9.43
	Bromacil	81.9	80.5	115	117	1.75		2.01
	Butylate	58.8	60.8	45.1	49.2	3.40		8.61
	Carbophenothion	106	105	114	110	0.565		3.74
	Chlorothalonil	98.8	79.5	69.0	74.2	21.6		7.24
	Chlorpyrifos Ethyl	88.3	89.9	88.4	83.5	1.74		5.65
	Chlorpyrifos Methyl	89.9	90.0	91.5	88.4	0.124		3.41
	Cyanazine	186	191	156	163	2.76		4.30
	Cypermethrin	68.4	69.1	77.5	73.4	1.04		5.54
	DDD-p,p'	93.6	91.6	90.7	89.1	2.23		1.82
	DDE-p,p'	86.3	77.4	80.3	74.4	10.9		7.57
	DDT-p,p'	89.3	83.9	88.5	76.9	6.29		14.1
	Delta-BHC	116	111	123	121	4.21		1.50
	Demeton	64.8	68.7	62.2	59.9	5.79		3.64
	Diazinon	100	104	112	114	4.13		1.51
	Dicofol	80.0	72.0	81.0	67.6	10.4		18.0
	Dieldrin	91.8	81.1	82.2	78.4	12.4		4.77
	Disulfoton	85.2	88.9	95.3	102	4.25		6.36
	Endosulfan I	94.6	89.2	83.5	79.0	5.92		5.56
	Endosulfan II	83.8	87.0	80.8	78.1	3.83		3.45
	Endosulfan Sulfate	91.5	97.5	89.8	83.8	6.33		6.90
	Endrin	92.7	79.1	79.5	86.7	15.8		8.60
	Endrin Aldehyde	97.2	87.2	75.1	75.6	10.8		0.638
	Endrin Ketone	90.9	91.6	102	94.6	0.790		7.86
	EPTC	55.5	59.0	45.4	44.5	6.06		2.15
	Ethion	87.3	93.3	87.7	92.0	6.65		4.78
	Ethoprop	68.8	80.7	76.7	97.8	16.0		24.2
	Fenamiphos	89.6	89.7	82.7	92.2	0.116		10.9
	Fipronil	84.6	81.8	70.3	75.1	3.32		5.58
	Fipronil Sulfide	74.9	71.1	58.2	66.2	5.22		7.13
	Fipronil Sulfone	69.3	66.2	45.3	54.6	4.55		6.30

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 8270D	Fonofos	91.4	91.3	99.7	101	0.181		0.928
	Gamma-BHC	79.4	101	100	91.2	23.5		9.43
	Gamma-Chlordane	80.6	73.0	74.8	71.0	9.93		5.19
	Heptachlor	68.5	59.1	58.7	51.5	14.7		13.1
	Heptachlor Epoxide	84.9	77.5	79.8	73.6	9.13		8.02
	Hexazinone	93.8	103	101	106	8.99		5.43
	Malathion	84.4	84.8	88.1	90.9	0.453		3.16
	Metalaxyl	93.3	93.8	92.5	97.0	0.457		4.71
	Methoxychlor	89.6	83.8	83.2	78.0	6.67		6.46
	Metolachlor	91.5	95.6	97.4	95.0	4.34		2.41
	Metribuzin	152	156	177	166	2.75		6.39
	Mevinphos	73.9	65.3	78.0	76.5	12.4		1.93
	Mirex	68.5	61.4	63.4	60.2	10.9		5.12
	Molinate	57.6	65.6	57.9	62.4	12.9		7.42
	Norflurazon	69.2	72.1	50.8	60.6	4.14		17.7
	Parathion Ethyl	91.2	94.2	92.8	96.8	3.29		4.22
	Parathion Methyl	90.4	90.3	96.6	91.4	0.0664		5.48
	Pendimethalin	111	121	131	138	8.60		4.86
	Permethrin	79.1	73.9	77.4	66.2	6.86		15.6
	Phorate	79.6	78.6	91.1	83.6	1.30		8.55
	Prometon	90.0	88.8	94.2	82.6	1.42		8.17
	Prometryn	91.7	96.5	96.6	96.5	5.03		0.0550
	Simazine	97.9	103			5.22		7.53
	Terbufos	89.1	91.6	106	106	2.74		0.436
	Terbutylazine	94.3	97.1	99.2	99.8	2.97		0.626
	Trifluralin	78.8	75.1	79.2	69.9	4.75		12.5
EPA 8276	Chlordane	82.9	94.9	100	128	13.5		24.4
	Toxaphene	55.1	62.2	59.4	60.2	12.2		1.33
	2,4-D	104		74.1	71.4			3.71
EPA 8321B	3-Hydroxycarbofuran	97.2		50.8	46.8			8.18
	Acetaminophen	93.4		71.6	72.9			1.78
	Aldicarb	84.2		15.6	19.1			20.5
	Aldicarb Sulfone	109		63.0	63.9			1.29
	Aldicarb Sulfoxide	106		57.7	60.9			5.44
	AMPA	93.2		36.9	34.5			4.14
	Bentazon	102		25.7	27.9			8.36
	Carbamazepine	67.4		33.9	35.1			3.60
	Carbaryl	64.5		32.2	33.6			4.26
	Carbofuran	66.2		30.3	30.6			1.04
	Diuron	65.0		37.5	38.0			1.32
	Endothall	97.3		169	160			5.17
	Fenuron	107		42.6	46.5			8.76
	Fluridone	85.4		63.7	66.1			3.74
	Glufosinate	95.9		183	139			27.7
	Glyphosate	98.5		51.9	59.6			7.12
	Hydrocodone	109		67.5	71.6			5.84
	Imazapyr	103		91.0	89.8			0.809
	Imidacloprid	113		102	103			0.974
	Linuron	101		78.7	77.8			1.24
	MCPP	109		65.8	60.1			9.09
	Methiocarb	88.1		59.8	66.1			9.88
	Methomyl	107		50.2	51.6			2.63
	Oxamyl	92.8		53.9	55.0			1.98
	Primidone	103		60.5	55.6			8.44

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery	LCS	Precision SMP	MS
EPA 8321B	Propoxur	64.2	27.3 29.0			5.89
	Pyraclostrobin	83.4	69.1 69.7			0.775
	Sucralose	118	77.9 77.2			0.843
	Triclopyr	109	77.8 78.2			0.510
SM 2320 B-97	Total Alkalinity	101			1.11	
SM 2540 C-97	TDS				3.15	
SM 4500 F-C-97	Fluoride	94.6	95.2 96.6			0.986
SM 5310 B-00	Organic Carbon	94.1	96.4 95.0			1.26

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1991749
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1991749
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1991750
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1991750
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1991750
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1991750
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	1990999
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1991000
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	1990999
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	1990997
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	1990998
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1991749
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1991749
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	1991749
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1991749
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1991750

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 300.0 Rev. 2.1	05/10/2018			05/11/2018 20:16	Lipi Saha	1991749
EPA 350.1 Rev. 2.0	05/10/2018			05/14/2018 12:43	Adrian Shelby	1991750
EPA 351.2 Rev. 2.0	05/10/2018	05/23/2018 16:00	Adrian Shelby	05/24/2018 13:16	Joseph Suarez	1991750
EPA 353.2 Rev. 2.0	05/10/2018			05/14/2018 13:36	Lauren Bottorf	1991750
EPA 365.1 Rev. 2.0	05/10/2018	05/11/2018 13:15	Sima Feizi	05/17/2018 14:24	Beverly Y. Sanders	1991750
EPA 8270D	05/08/2018	05/14/2018 08:30	Fe-Val Siddell	05/16/2018 19:00	Dinesh Mishra	1990999
	05/08/2018	05/14/2018 08:48	Dinesh Mishra	05/21/2018 15:02	Vandana T. Nagar	1991000
EPA 8276	05/08/2018	05/14/2018 08:30	Fe-Val Siddell	05/21/2018 18:07	John P. Burgos	1990999
EPA 8321B	05/08/2018	05/09/2018 13:00	Mohammad Ghaffari	05/10/2018 20:48	Juyoung Kim	1990998
	05/08/2018	05/11/2018 13:00	Hoor Shaik	05/12/2018 00:04	Juyoung Kim	1990998
	05/08/2018	05/11/2018 13:00	Hoor Shaik	05/16/2018 00:02	Juyoung Kim	1990998
	05/08/2018	05/11/2018 13:00	Hoor Shaik	05/16/2018 02:55	Juyoung Kim	1990997
SM 2320 B-97	05/10/2018			05/15/2018 19:52	Dale L. Simmons	1991749
SM 2540 C-97	05/10/2018			05/11/2018 17:30	William L. Brown IV	1991749
SM 2540 D-97	05/10/2018			05/11/2018 17:30	William L. Brown IV	1991749
SM 4500 F-C-97	05/10/2018			05/15/2018 19:52	Dale L. Simmons	1991749
SM 5310 B-00	05/10/2018			05/14/2018 19:44	Megan Treadwell	1991750