Chemical Analysis Report

SW-DIST-2019-03-20-01

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

Event Description: **SMP: Run 8**
Request ID: **RQ-2019-03-18-15**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
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13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
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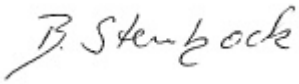
Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator Date Certified: 16-APR-2019 17:24



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: Mill Creek @ Upper Manatee Rvr Rd **Collection Date/Time: 03/19/2019 12:00**

Field ID: G2SW0040 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2071308	EPA 8321B	2,4-D	0.032		ug/L	P360773	
		Acesulfame K**	0.38	I	ug/L	P360764	MS
		AMPA**	0.58		ug/L	P360764	
		Sucralose**	2.0		ug/L	P361315	
		Acetaminophen**	0.0080	U	ug/L	P360773	
		Endothall**	0.25	U	ug/L	P360764	
		Glufosinate**	0.10	U	ug/L	P360764	
		Bentazon	0.085		ug/L	P360773	
		Glyphosate**	0.53		ug/L	P360764	
		Carbamazepine**	0.0020	I	ug/L	P360773	
		Diuron	0.023		ug/L	P360773	
		Fenuron	0.016	U	ug/L	P360773	
		Fluridone**	0.13		ug/L	P360773	
		Imazapyr**	0.29		ug/L	P360773	
		Hydrocodone**	0.0020	U	ug/L	P360773	
		Ibuprofen**	0.020	U	ug/L	P360773	
		Imidacloprid	0.025		ug/L	P360773	MS
		Linuron	0.0040	U	ug/L	P360773	
		MCPP	0.0037	I	ug/L	P360773	
		Naproxen**	0.0080	U	ug/L	P360773	
		Primidone**	0.011	I	ug/L	P360773	
		Pyraclostrobin**	0.0020	U	ug/L	P360773	
		Triclopyr**	0.0040	U	ug/L	P360773	

Sample Location: Lil Manatee River @ Saffold Rd **Collection Date/Time: 03/19/2019 10:30**

Field ID: G2SW0103 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2071296	EPA 180.1 Rev. 2.0	Turbidity	2.6		NTU	P360790	
	EPA 300.0 Rev. 2.1	Chloride	16		mg Cl/L	P361126	
		Sulfate	59		mg SO4/L	P361128	
	SM 2120 B	Color (true)	62		PCU	P360823	
	SM 2320 B-97	Total Alkalinity	17		mg CaCO3/L	P361243	
	SM 2540 C-97	TDS	151		mg/L	P361340	
	SM 2540 D-97	TSS	4	I	mg/L	P361351	
	SM 4500 F-C-97	Fluoride	0.26		mg F/L	P361247	
2071297	EPA 350.1 Rev. 2.0	Ammonia-N	0.022		mg N/L	P361179	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.41		mg N/L	P360913	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.51		mg N/L	P360963	
	EPA 365.1 Rev. 2.0	Total-P	0.29		mg P/L	P361119	
	SM 5310 B-00	Organic Carbon	8.1		mg C/L	P361060	
2071298	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.20		mg P/L	P360796	
2071306	EPA 8321B	Aldicarb	0.020	U	ug/L	P360626	
		Aldicarb Sulfone	0.0020	U	ug/L	P360626	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P360626	
		Carbaryl	0.0020	U	ug/L	P360626	
		Carbofuran	0.0020	U	ug/L	P360626	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P360626	
		Methiocarb	0.0020	U	ug/L	P360626	
		Methomyl	0.0020	U	ug/L	P360626	
		Oxamyl	0.0020	U	ug/L	P360626	
		Propoxur	0.0020	U	ug/L	P360626	
2071307		2,4-D	0.0020	U	ug/L	P360773	
		Acesulfame K**	0.10	UJ	ug/L	P360764	MS
		AMPA**	0.15	I	ug/L	P360764	
		Sucralose**	0.19		ug/L	P361315	
		Endothall**	0.25	U	ug/L	P360764	
		Acetaminophen**	0.0080	U	ug/L	P360773	
		Glufosinate**	0.10	U	ug/L	P360764	
		Glyphosate**	0.10	I	ug/L	P360764	
		Bentazon	0.0022	I	ug/L	P360773	
		Carbamazepine**	8.0E-04	U	ug/L	P360773	
		Diuron	0.0045	I	ug/L	P360773	
		Fenuron	0.016	U	ug/L	P360773	
		Fluridone**	8.0E-04	U	ug/L	P360773	
		Imazapyr**	0.020		ug/L	P360773	
		Hydrocodone**	0.0020	U	ug/L	P360773	
		Ibuprofen**	0.020	U	ug/L	P360773	
		Imidacloprid	0.23		ug/L	P360773	MS
		Linuron	0.0040	U	ug/L	P360773	
		MCPP	0.0020	U	ug/L	P360773	

Field ID: G2SW0103 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2071307	EPA 8321B	Naproxen**	0.0080	U	ug/L	P360773	
		Primidone**	0.0040	U	ug/L	P360773	
		Pyraclostrobin**	0.0020	U	ug/L	P360773	
		Triclopyr**	0.0040	U	ug/L	P360773	
2071309	EPA 8270D	Aldrin	4.1	U	ng/L	P360935	
		Alpha-BHC	2.1	U	ng/L	P360935	
		Alpha-Chlordane	1.0	U	ng/L	P360935	
		Beta-BHC	10	UJ	ng/L	P360935	LCS, MS
		Bifenthrin**	4.1	U	ng/L	P360935	
		Delta-BHC	10	U	ng/L	P360935	
		Gamma-BHC	10	UJ	ng/L	P360935	LCS
		Carbophenothion	12	U	ng/L	P360935	
		Chlorothalonil	2.1	U	ng/L	P360935	
		Cis-Nonachlor**	1.0	U	ng/L	P360935	
		Cypermethrin	21	U	ng/L	P360935	
		DDD-p,p'	8.2	U	ng/L	P360935	
		DDE-p,p'	8.2	U	ng/L	P360935	
		DDT-p,p'	10	U	ng/L	P360935	
		Dicofol	31	U	ng/L	P360935	
		Dieldrin	4.1	U	ng/L	P360935	
		Endosulfan I	4.1	U	ng/L	P360935	
		Endosulfan II	4.1	U	ng/L	P360935	
		Endosulfan Sulfate	2.1	UJ	ng/L	P360935	LCS
		Endrin	2.1	U	ng/L	P360935	
		Endrin Aldehyde	2.1	U	ng/L	P360935	
		Endrin Ketone	2.1	U	ng/L	P360935	
		Ethalfluralin**	3.1	U	ng/L	P360935	
		Gamma-Chlordane	1.0	U	ng/L	P360935	
		Heptachlor	1.5	U	ng/L	P360935	
		Heptachlor Epoxide	2.1	U	ng/L	P360935	
		Hexachlorobenzene**	2.1	U	ng/L	P360935	
		Methoxychlor	4.1	U	ng/L	P360935	
		Mirex	2.1	U	ng/L	P360935	
		Permethrin	10	U	ng/L	P360935	
		Trans-Nonachlor**	1.0	U	ng/L	P360935	
		Trifluralin	2.6	U	ng/L	P360935	
	EPA 8276	Chlordane	5.2	U	ng/L	P360935	
		Toxaphene	31	UJ	ng/L	P360935	CCV, RPD
2071310	EPA 8270D	Acetochlor	0.26	U	ng/L	P360678	
		Alachlor	0.26	U	ng/L	P360678	
		Ametryn	0.62	U	ng/L	P360678	
		Atrazine	1.2		ng/L	P360678	
		Atrazine Desethyl	1.5	U	ng/L	P360678	RPD
		Azinphos Methyl	5.1	U	ng/L	P360678	
		Bromacil	460		ng/L	P360678	

Field ID: G2SW0103 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2071310	EPA 8270D	Butylate	0.41	U	ng/L	P360678	RPD
		Chlorpyrifos Ethyl	0.26	U	ng/L	P360678	
		Chlorpyrifos Methyl	0.10	U	ng/L	P360678	
		Cyanazine	3.3	U	ng/L	P360678	
		Demeton	7.2	U	ng/L	P360678	
		Diazinon	0.13	U	ng/L	P360678	
		Dimethenamid**	0.10	U	ng/L	P360678	
		Disulfoton	0.51	U	ng/L	P360678	
		Dithiopyr**	0.10	U	ng/L	P360678	
		EPTC	1.3	U	ng/L	P360678	RPD
		Ethion	0.15	U	ng/L	P360678	
		Ethoprop	0.10	U	ng/L	P360678	
		Fenamiphos	0.51	U	ng/L	P360678	
		Fipronil	0.26	U	ng/L	P360678	
		Fipronil Desulfinyl**	0.13	U	ng/L	P360678	MS, RPD
		Fipronil Sulfide	0.15	U	ng/L	P360678	
		Fipronil Sulfone	0.15	U	ng/L	P360678	RPD
		Fonofos	0.21	U	ng/L	P360678	
		Hexazinone	3.6		ng/L	P360678	
		Malathion	0.36	U	ng/L	P360678	
		Metalaxyl	15		ng/L	P360678	
		Metolachlor	6.2		ng/L	P360678	
		Metribuzin	2.2	I	ng/L	P360678	
		Mevinphos	0.51	U	ng/L	P360678	
		Molinate	0.31	U	ng/L	P360678	
		Norflurazon	17		ng/L	P360678	
		Oxadiazon**	0.22	I	ng/L	P360678	
		Parathion Ethyl	0.26	U	ng/L	P360678	
		Parathion Methyl	0.56	U	ng/L	P360678	
		Pendimethalin	1.0	U	ng/L	P360678	
		Phorate	0.26	U	ng/L	P360678	
		Prodiamine**	0.18	U	ng/L	P360678	
		Prometon	0.92	U	ng/L	P360678	
		Prometryn	0.21	U	ng/L	P360678	
		Simazine	0.51	U	ng/L	P360678	
		Tebuconazole**	0.51	U	ng/L	P360678	
		Terbufos	0.10	U	ng/L	P360678	
		Terbuthylazine	0.44	U	ng/L	P360678	
2071311	EPA 200.7 Rev. 4.4	Barium	17.7		ug/L	P360846	
		Calcium	17.9		mg/L	P360846	
		Iron	390		ug/L	P360846	
		Magnesium	9.58		mg/L	P360846	
		Potassium	5.5		mg/L	P360846	
		Sodium	7.5		mg/L	P360846	
		Zinc	5.0	U	ug/L	P360846	

Field ID: G2SW0103 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2071311	EPA 200.8 Rev. 5.4	Aluminum	393		ug/L	P360846	
		Antimony	0.070	I	ug/L	P360846	
		Arsenic	0.29		ug/L	P360846	
		Boron**	28.6		ug/L	P360846	
		Cadmium	0.132		ug/L	P360846	
		Chromium	0.62	I	ug/L	P360846	
		Copper	1.48		ug/L	P360846	
		Lead	0.20	U	ug/L	P360846	
		Nickel	0.60	I	ug/L	P360846	
		Selenium	0.22	I	ug/L	P360846	
		Silver	0.010	U	ug/L	P360846	
		Thallium	0.10	U	ug/L	P360846	

Ref. Method and Comment:
SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: Refer to the narrative for an explanation of QC Codes.
EPA 8270D: Refer to the narrative for an explanation of QC Codes.
EPA 8276: Refer to the narrative for an explanation of QC Codes.
EPA 8270D: MS accuracies for atrazine, metolachlor, simazine, metalaxyl, bromacil, and norflurazon not assessed due to high content of these parameters in the sample spiked.

Quality Assurance Report
Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P360790

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P360846

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: P360846

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: P361126

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P361128

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P361179

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: P360913

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P360963

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P361119

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P360796

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

Reference Method: EPA 8270D
Batch ID: P360678

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	5.0	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Cyanazine	3.2	U	ng/L
Demeton	7.0	U	ng/L
Diazinon	0.12	U	ng/L
Dimethenamid	0.10	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.10	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Fenamiphos	0.50	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.30	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270D
Batch ID: P360678

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

Reference Method: EPA 8270D
Batch ID: P360935

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	12	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cis-Nonachlor	1.0	U	ng/L
Cypermethrin	20	U	ng/L
DDD-p,p'	8.0	U	ng/L
DDE-p,p'	8.0	U	ng/L
DDT-p,p'	10	U	ng/L
Delta-BHC	10	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
Ethalfluralin	3.0	U	ng/L
Gamma-BHC	10	U	ng/L
Gamma-Chlordane	1.0	U	ng/L
Heptachlor	1.5	U	ng/L
Heptachlor Epoxide	2.0	U	ng/L
Hexachlorobenzene	2.0	U	ng/L
Methoxychlor	4.0	U	ng/L
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270D
Batch ID: P360935

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

Reference Method: EPA 8276
Batch ID: P360935

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

Reference Method: EPA 8321B
Batch ID: P360626

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: P360764

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

Reference Method: EPA 8321B
Batch ID: P360773

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P360773

Component	Result	Code	Units
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P361315

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: SM 2120 B
Batch ID: P360823

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P361243

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

Reference Method: SM 2540 C-97
Batch ID: P361340

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P361351

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P361247

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P361060

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: P360846

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	101		P	85 - 115
Calcium	97.3		P	85 - 115
Iron	100		P	85 - 115
Magnesium	105		P	85 - 115
Potassium	98.9		P	85 - 115
Sodium	97.8		P	85 - 115
Zinc	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P360846

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	95.1		P	85 - 115
Antimony	94.8		P	85 - 115
Arsenic	100		P	85 - 115
Boron	93.0		P	85 - 115
Cadmium	95.3		P	85 - 115
Chromium	90.6		P	85 - 115
Copper	96.7		P	85 - 115
Lead	92.5		P	85 - 115
Nickel	96.6		P	85 - 115
Selenium	102		P	85 - 115
Silver	101		P	85 - 115
Thallium	97.5		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P361126

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P361128

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P361179

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P360913

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P360963

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	98.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P361119

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	96.8		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P360796

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.4		P	90 - 110

Reference Method: EPA 8270D
Batch ID: P360678

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	96.5	98.3	P/P	71 - 121
Alachlor	94.4	100	P/P	72 - 119
Ametryn	95.2	98.2	P/P	47 - 144
Atrazine	93.3	105	P/P	75 - 123
Atrazine Desethyl	74.3	77.8	P/P	45 - 133
Azinphos Methyl	106	111	P/P	66 - 165
Bromacil	86.0	80.6	P/P	43 - 123
Butylate	61.6	66.3	P/P	27 - 83.0
Chlorpyrifos Ethyl	102	98.2	P/P	70 - 117
Chlorpyrifos Methyl	101	102	P/P	71 - 120
Cyanazine	124	127	P/P	34 - 264
Demeton	95.0	91.7	P/P	41 - 122
Diazinon	95.4	97.9	P/P	70 - 127
Dimethenamid	93.9	103	P/P	60 - 130
Disulfoton	97.7	89.5	P/P	56 - 127
Dithiopyr	96.3	98.2	P/P	60 - 130
EPTC	61.8	62.2	P/P	24 - 84.0
Ethion	82.7	86.6	P/P	53 - 132
Ethoprop	85.4	88.6	P/P	57 - 117
Fenamiphos	97.4	93.3	P/P	55 - 136
Fipronil	84.4	81.5	P/P	64 - 126
Fipronil Desulfinyl	76.1	76.3	P/P	60 - 130
Fipronil Sulfide	84.5	78.9	P/P	57 - 120
Fipronil Sulfone	90.3	80.8	P/P	52 - 115
Fonofos	91.9	92.0	P/P	61 - 121
Hexazinone	88.0	96.2	P/P	62 - 131
Malathion	102	98.1	P/P	67 - 126
Metalaxyl	89.9	91.4	P/P	54 - 128
Metolachlor	94.8	97.3	P/P	71 - 118
Metribuzin	140	135	P/P	42 - 221
Mevinphos	86.0	80.1	P/P	45 - 114
Molinate	72.6	74.0	P/P	33 - 91.0
Norflurazon	88.0	83.9	P/P	60 - 123
Oxadiazon	87.2	97.7	P/P	60 - 130

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P360678

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Parathion Ethyl	84.4	89.5	P/P	73 - 111
Parathion Methyl	96.0	109	P/P	74 - 126
Pendimethalin	82.7	89.3	P/P	63 - 131
Phorate	101	98.4	P/P	54 - 115
Prodiamine	99.3	93.3	P/P	60 - 130
Prometon	86.6	94.8	P/P	61 - 120
Prometryn	85.2	90.0	P/P	62 - 126
Simazine	97.1	108	P/P	75 - 126
Tebuconazole	74.3	73.1	P/P	30 - 100
Terbufos	96.9	95.4	P/P	65 - 116
Terbuthylazine	91.1	101	P/P	73 - 117

Reference Method: EPA 8270D
Batch ID: P360935

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	41.8	35.9	P/P	20 - 93.0
Alpha-BHC	108	103	P/P	57 - 119
Alpha-Chlordane	84.4	85.6	P/P	58 - 112
Beta-BHC	153	148	F/P	56 - 149
Bifenthrin	87.5	90.9	P/P	50 - 130
Carbophenothion	82.2	82.6	P/P	26 - 147
Chlorothalonil	126	123	P/P	20 - 155
Cis-Nonachlor	87.4	90.3	P/P	50 - 130
Cypermethrin	96.9	101	P/P	40 - 137
DDD-p,p'	92.4	97.0	P/P	65 - 129
DDE-p,p'	76.1	75.5	P/P	57 - 116
DDT-p,p'	98.5	101	P/P	53 - 133
Delta-BHC	137	156	P/P	59 - 163
Dicofol	95.3	96.5	P/P	24 - 138
Dieldrin	86.5	93.0	P/P	60 - 120
Endosulfan I	90.9	102	P/P	64 - 118
Endosulfan II	104	119	P/P	58 - 142
Endosulfan Sulfate	113	128	P/F	60 - 127
Endrin	77.9	79.6	P/P	59 - 122
Endrin Aldehyde	112	112	P/P	49 - 132
Endrin Ketone	105	116	P/P	64 - 121
Ethalfluralin	97.4	95.8	P/P	50 - 130
Gamma-BHC	142	143	F/F	56 - 141
Gamma-Chlordane	83.5	82.7	P/P	56 - 110
Heptachlor	76.3	72.4	P/P	46 - 96.0
Heptachlor Epoxide	86.2	91.3	P/P	61 - 112
Hexachlorobenzene	71.6	59.7	P/P	50 - 130
Methoxychlor	122	126	P/P	63 - 134
Mirex	65.7	62.6	P/P	45 - 100
Permethrin	77.1	75.6	P/P	53 - 115
Trans-Nonachlor	81.1	80.6	P/P	50 - 130
Trifluralin	87.6	86.1	P/P	39 - 142

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P360935

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	90.0	81.1	P/P	43 - 128
Toxaphene	82.1	94.0	P/P	38 - 140

Reference Method: EPA 8321B
Batch ID: P360626

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	87.3		P	40 - 150
Aldicarb	96.1		P	30 - 150
Aldicarb Sulfone	98.4		P	40 - 150
Aldicarb Sulfoxide	90.8		P	40 - 150
Carbaryl	83.5		P	40 - 150
Carbofuran	86.6		P	40 - 150
Methiocarb	69.6		P	40 - 150
Methomyl	84.1		P	40 - 150
Oxamyl	94.9		P	40 - 150
Propoxur	78.5		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P360764

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	110		P	40 - 150
AMPA	99.0		P	40 - 150
Endothall	119		P	40 - 150
Glufosinate	91.7		P	40 - 150
Glyphosate	87.7		P	40 - 140

Reference Method: EPA 8321B
Batch ID: P360773

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	84.1		P	40 - 150
Acetaminophen	106		P	30 - 150
Bentazon	113		P	30 - 150
Carbamazepine	87.3		P	40 - 150
Diuron	103		P	40 - 150
Fenuron	148		P	40 - 150
Fluridone	114		P	40 - 150
Hydrocodone	122		P	40 - 150
Ibuprofen	63.6		P	40 - 150
Imazapyr	104		P	40 - 150
Imidacloprid	134		P	40 - 150
Linuron	80.6		P	40 - 150
MCPP	112		P	40 - 150
Naproxen	71.0		P	40 - 150
Primidone	114		P	40 - 150
Pyraclostrobin	72.3		P	40 - 150
Triclopyr	62.3		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P361315

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	108		P	40 - 150

Reference Method: SM 2120 B
Batch ID: P360823

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	102		P	85 - 115

Reference Method: SM 2320 B-97
Batch ID: P361243

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	105		P	98 - 107

Reference Method: SM 4500 F-C-97
Batch ID: P361247

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P361060

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.8		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P360846

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2071118	Barium	97.5		P	80 - 120
2071118	Calcium	98.3		P	80 - 120
2071118	Iron	97.7		P	80 - 120
2071118	Magnesium	96.6		P	80 - 120
2071118	Potassium	97.9		P	80 - 120
2071118	Sodium	96.9		P	80 - 120
2071118	Zinc	98.1		P	80 - 120
2071273	Barium	100	96.4	P/P	80 - 120
2071273	Calcium	97.3		P	80 - 120
2071273	Iron	100	98.2	P/P	80 - 120
2071273	Magnesium	102	97.8	P/P	80 - 120
2071273	Potassium	99.4	97.6	P/P	80 - 120
2071273	Sodium	95.7		P	80 - 120
2071273	Zinc	104	99.8	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P360846

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2071118	Aluminum	95.2		P	80 - 120
2071118	Antimony	97.7		P	80 - 120
2071118	Arsenic	99.1		P	80 - 120
2071118	Boron	96.7		P	80 - 120
2071118	Cadmium	98.9		P	80 - 120
2071118	Chromium	90.8		P	80 - 120
2071118	Copper	91.5		P	80 - 120
2071118	Lead	95.4		P	80 - 120
2071118	Nickel	92.0		P	80 - 120
2071118	Selenium	97.9		P	80 - 120
2071118	Silver	100		P	80 - 120
2071118	Thallium	102		P	80 - 120
2071273	Aluminum	95.5	93.3	P/P	80 - 120
2071273	Antimony	97.7	94.4	P/P	80 - 120
2071273	Arsenic	99.3	95.9	P/P	80 - 120
2071273	Boron	97.1	94.9	P/P	80 - 120
2071273	Cadmium	99.0	95.9	P/P	80 - 120
2071273	Chromium	92.3	90.0	P/P	80 - 120
2071273	Copper	94.8	91.7	P/P	80 - 120
2071273	Lead	97.0	94.3	P/P	80 - 120
2071273	Nickel	96.3	94.7	P/P	80 - 120
2071273	Selenium	99.4	92.8	P/P	80 - 120
2071273	Silver	101	103	P/P	80 - 120
2071273	Thallium	102	100	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P361126

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2071282	Chloride	98.0		P	90 - 110
2071499	Chloride	99.1		P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P361128

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2071282	Sulfate	101		P	90 - 110
2071499	Sulfate	99.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P361179

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2071252	Ammonia-N	109	108	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P360913

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2071252	Kjeldahl Nitrogen	89.1	87.2	F/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P360963

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2071253	NO2NO3-N	96.8	97.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P361119

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2071261	Total-P	102	94.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P360796

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2071256	O-Phosphate-P	96.2	97.5	P/P	90 - 110

Reference Method: EPA 8270D
Batch ID: P360678

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2071096	Acetochlor	103	101	P/P	63 - 129
2071096	Alachlor	103	102	P/P	65 - 127
2071096	Ametryn	83.3	98.8	P/P	40 - 164
2071096	Atrazine Desethyl	57.7	101	P/P	14 - 157
2071096	Azinphos Methyl	103	103	P/P	49 - 180
2071096	Butylate	39.1	58.2	P/P	10 - 94.0
2071096	Chlorpyrifos Ethyl	101	106	P/P	58 - 123
2071096	Chlorpyrifos Methyl	111	106	P/P	58 - 125
2071096	Cyanazine	100	127	P/P	24 - 253
2071096	Demeton	94.6	77.9	P/P	25 - 149
2071096	Diazinon	114	109	P/P	59 - 144
2071096	Dimethenamid	98.9	101	P/P	60 - 130
2071096	Disulfoton	101	92.2	P/P	54 - 132
2071096	Dithiopyr	103	103	P/P	60 - 130
2071096	EPTC	30.2	47.1	P/P	10 - 92.0

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P360678

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2071096	Ethion	96.1	94.9	P/P	30 - 148
2071096	Ethoprop	97.2	91.0	P/P	50 - 130
2071096	Fenamiphos	77.1	82.2	P/P	49 - 142
2071096	Fipronil	72.0	93.4	P/P	46 - 140
2071096	Fipronil Desulfinyl	56.7	82.3	F/P	60 - 130
2071096	Fipronil Sulfide	73.6	82.6	P/P	31 - 136
2071096	Fipronil Sulfone	41.9	67.9	P/P	16 - 136
2071096	Fonofos	97.2	93.8	P/P	55 - 129
2071096	Hexazinone	95.7	111	P/P	56 - 141
2071096	Malathion	81.4	75.2	P/P	56 - 135
2071096	Metribuzin	215	232	P/P	45 - 254
2071096	Mevinphos	79.2	83.4	P/P	33 - 131
2071096	Molinate	66.7	79.3	P/P	14 - 98.0
2071096	Oxadiazon	95.2	98.8	P/P	60 - 130
2071096	Parathion Ethyl	95.2	88.3	P/P	66 - 118
2071096	Parathion Methyl	105	98.7	P/P	64 - 136
2071096	Pendimethalin	112	97.9	P/P	59 - 144
2071096	Phorate	96.4	86.5	P/P	42 - 130
2071096	Prodiamine	115	115	P/P	60 - 130
2071096	Prometon	86.7	91.0	P/P	59 - 134
2071096	Prometryn	78.7	80.1	P/P	54 - 135
2071096	Tebuconazole	83.1	93.7	P/P	30 - 100
2071096	Terbufos	98.5	92.8	P/P	57 - 131
2071096	Terbuthylazine	92.3	95.6	P/P	68 - 125

Reference Method: EPA 8270D
Batch ID: P360935

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2071192	Aldrin	55.7	59.3	P/P	25 - 92.0
2071192	Alpha-BHC	111	116	P/P	49 - 130
2071192	Alpha-Chlordane	83.2	87.4	P/P	50 - 115
2071192	Beta-BHC	140	160	P/F	43 - 157
2071192	Bifenthrin	82.7	88.4	P/P	50 - 130
2071192	Carbophenothion	107	114	P/P	27 - 180
2071192	Chlorothalonil	29.1	28.3	P/P	10 - 216
2071192	Cis-Nonachlor	91.7	96.9	P/P	50 - 130
2071192	Cypermethrin	106	120	P/P	40 - 153
2071192	DDD-p,p'	88.3	92.2	P/P	53 - 128
2071192	DDE-p,p'	78.4	78.7	P/P	48 - 116
2071192	DDT-p,p'	96.3	104	P/P	47 - 128
2071192	Delta-BHC	158	173	P/P	51 - 196
2071192	Dicofol	92.2	97.5	P/P	10 - 147
2071192	Dieldrin	87.1	92.3	P/P	48 - 128
2071192	Endosulfan I	99.8	107	P/P	58 - 126
2071192	Endosulfan II	123	133	P/P	50 - 150
2071192	Endosulfan Sulfate	106	119	P/P	56 - 130
2071192	Endrin	99.8	105	P/P	50 - 126
2071192	Endrin Aldehyde	101	103	P/P	12 - 145
2071192	Endrin Ketone	103	114	P/P	59 - 132
2071192	Ethalfluralin	97.3	107	P/P	50 - 130
2071192	Gamma-BHC	125	142	P/P	50 - 155

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P360935

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2071192	Gamma-Chlordane	81.4	85.2	P/P	50 - 112
2071192	Heptachlor	78.5	85.4	P/P	41 - 98.0
2071192	Heptachlor Epoxide	84.2	88.8	P/P	55 - 117
2071192	Hexachlorobenzene	60.0	72.5	P/P	50 - 130
2071192	Methoxychlor	113	124	P/P	55 - 133
2071192	Mirex	72.3	75.2	P/P	44 - 101
2071192	Permethrin	75.8	81.4	P/P	52 - 124
2071192	Trans-Nonachlor	81.0	83.8	P/P	50 - 130
2071192	Trifluralin	85.4	93.6	P/P	10 - 201

Reference Method: EPA 8276
Batch ID: P360935

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2072200	Chlordane	62.6	81.4	P/P	34 - 136
2072200	Toxaphene	74.0	104	P/P	22 - 152

Reference Method: EPA 8321B
Batch ID: P360626

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2071082	3-Hydroxycarbofuran	92.3	93.5	P/P	40 - 150
2071082	Aldicarb	81.8	99.8	P/P	30 - 150
2071082	Aldicarb Sulfone	99.8	108	P/P	40 - 150
2071082	Aldicarb Sulfoxide	47.8	57.8	P/P	40 - 150
2071082	Carbaryl	76.7	76.2	P/P	40 - 150
2071082	Carbofuran	79.9	78.2	P/P	40 - 150
2071082	Methiocarb	67.3	76.9	P/P	40 - 150
2071082	Methomyl	89.9	104	P/P	40 - 150
2071082	Oxamyl	87.1	88.7	P/P	40 - 150
2071082	Propoxur	75.9	78.7	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P360764

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2071307	Acesulfame K	185	193	F/F	40 - 150
2071307	AMPA	108	102	P/P	40 - 150
2071307	Endothall	149	145	P/P	40 - 150
2071307	Glufosinate	108	103	P/P	40 - 150
2071307	Glyphosate	92.1	81.8	P/P	40 - 140

Reference Method: EPA 8321B
Batch ID: P360773

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2071546	2,4-D	68.7	89.6	P/P	40 - 150
2071546	Acetaminophen	137	128	P/P	30 - 150
2071546	Bentazon	100	94.2	P/P	30 - 150
2071546	Carbamazepine	114	103	P/P	40 - 150
2071546	Diuron	99.9	102	P/P	40 - 150
2071546	Fenuron	144	138	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P360773

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2071546	Fluridone	118	114	P/P	40 - 150
2071546	Hydrocodone	102	109	P/P	40 - 150
2071546	Ibuprofen	65.8	65.5	P/P	40 - 150
2071546	Imazapyr	113	98.6	P/P	40 - 150
2071546	Imidacloprid	184	174	F/F	40 - 150
2071546	Linuron	90.5	85.2	P/P	40 - 150
2071546	MCPP	114	105	P/P	40 - 150
2071546	Naproxen	99.4	87.0	P/P	40 - 150
2071546	Primidone	122	94.3	P/P	40 - 150
2071546	Pyraclostrobin	107	108	P/P	40 - 150
2071546	Triclopyr	62.1	58.9	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P361315

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2070592	Sucralose	99.2	63.5	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P361247

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2071227	Fluoride	97.3	97.3	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P361060

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2071261	Organic Carbon	99.6	99.8	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P360790

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2071282	Turbidity	0.881	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P360846

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2071273	Barium	3.89	Spike	P	0 - 20
2071273	Calcium	2.55	Spike	P	0 - 20
2071273	Iron	1.63	Spike	P	0 - 20
2071273	Magnesium	2.39	Spike	P	0 - 20
2071273	Potassium	1.45	Spike	P	0 - 20
2071273	Sodium	1.50	Spike	P	0 - 20
2071273	Zinc	4.45	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P360846

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2071273	Aluminum	2.15	Spike	P	0 - 20
2071273	Antimony	3.45	Spike	P	0 - 20
2071273	Arsenic	3.41	Spike	P	0 - 20
2071273	Boron	1.73	Spike	P	0 - 20
2071273	Cadmium	3.18	Spike	P	0 - 20
2071273	Chromium	2.58	Spike	P	0 - 20
2071273	Copper	2.47	Spike	P	0 - 20
2071273	Lead	2.78	Spike	P	0 - 20
2071273	Nickel	1.70	Spike	P	0 - 20
2071273	Selenium	6.86	Spike	P	0 - 20
2071273	Silver	2.23	Spike	P	0 - 20
2071273	Thallium	1.76	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P361126

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2071282	Chloride	0.425	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P361128

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2071282	Sulfate	0.294	Sample	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P361179

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2071252	Ammonia-N	0.143	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P360913

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2071252	Kjeldahl Nitrogen	1.14	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P360963

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2071253	NO2NO3-N	0.396	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P361119

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2071261	Total-P	6.30	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P360796

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2071256	O-Phosphate-P	1.19	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P360678

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2071096	Acetochlor	2.38	Spike	P	0 - 30
2071096	Alachlor	1.41	Spike	P	0 - 30
2071096	Ametryn	12.4	Spike	P	0 - 30
2071096	Atrazine	4.33	Spike	P	0 - 30
2071096	Atrazine Desethyl	38.0	Spike	F	0 - 30
2071096	Azinphos Methyl	0.490	Spike	P	0 - 30
2071096	Bromacil	12.7	Spike	P	0 - 30
2071096	Butylate	39.2	Spike	F	0 - 30
2071096	Chlorpyrifos Ethyl	4.78	Spike	P	0 - 30
2071096	Chlorpyrifos Methyl	4.67	Spike	P	0 - 30
2071096	Cyanazine	23.4	Spike	P	0 - 30
2071096	Demeton	19.4	Spike	P	0 - 30
2071096	Diazinon	4.00	Spike	P	0 - 30
2071096	Dimethenamid	1.64	Spike	P	0 - 30
2071096	Disulfoton	8.77	Spike	P	0 - 30
2071096	Dithiopyr	0.291	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270D
Batch ID: P360678

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2071096	EPTC	43.6	Spike	F	0 - 30
2071096	Ethion	1.32	Spike	P	0 - 30
2071096	Ethoprop	6.53	Spike	P	0 - 30
2071096	Fenamiphos	6.44	Spike	P	0 - 30
2071096	Fipronil	25.8	Spike	P	0 - 30
2071096	Fipronil Desulfinyl	36.9	Spike	F	0 - 30
2071096	Fipronil Sulfide	11.5	Spike	P	0 - 30
2071096	Fipronil Sulfone	47.3	Spike	F	0 - 30
2071096	Fonofos	3.56	Spike	P	0 - 30
2071096	Hexazinone	9.00	Spike	P	0 - 30
2071096	Malathion	7.95	Spike	P	0 - 30
2071096	Metalaxyl	7.53	Spike	P	0 - 30
2071096	Metolachlor	1.93	Spike	P	0 - 30
2071096	Metribuzin	7.46	Spike	P	0 - 30
2071096	Mevinphos	5.14	Spike	P	0 - 30
2071096	Molinate	17.2	Spike	P	0 - 30
2071096	Norflurazon	21.4	Spike	P	0 - 30
2071096	Oxadiazon	3.74	Spike	P	0 - 30
2071096	Parathion Ethyl	7.46	Spike	P	0 - 30
2071096	Parathion Methyl	6.25	Spike	P	0 - 30
2071096	Pendimethalin	13.8	Spike	P	0 - 30
2071096	Phorate	10.8	Spike	P	0 - 30
2071096	Prodiamine	0.196	Spike	P	0 - 30
2071096	Prometon	4.80	Spike	P	0 - 30
2071096	Prometryn	1.72	Spike	P	0 - 30
2071096	Simazine	3.04	Spike	P	0 - 30
2071096	Tebuconazole	12.1	Spike	P	0 - 30
2071096	Terbufos	5.94	Spike	P	0 - 30
2071096	Terbuthylazine	3.48	Spike	P	0 - 30
LFB	Acetochlor	1.89	LCS	P	0 - 30
LFB	Alachlor	5.78	LCS	P	0 - 30
LFB	Ametryn	3.05	LCS	P	0 - 30
LFB	Atrazine	11.4	LCS	P	0 - 30
LFB	Atrazine Desethyl	4.63	LCS	P	0 - 30
LFB	Azinphos Methyl	4.43	LCS	P	0 - 30
LFB	Bromacil	6.47	LCS	P	0 - 30
LFB	Butylate	7.21	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	3.63	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	1.20	LCS	P	0 - 30
LFB	Cyanazine	1.90	LCS	P	0 - 30
LFB	Demeton	3.54	LCS	P	0 - 30
LFB	Diazinon	2.58	LCS	P	0 - 30
LFB	Dimethenamid	8.87	LCS	P	0 - 30
LFB	Disulfoton	8.77	LCS	P	0 - 30
LFB	Dithiopyr	1.97	LCS	P	0 - 30
LFB	EPTC	0.724	LCS	P	0 - 30
LFB	Ethion	4.67	LCS	P	0 - 30
LFB	Ethoprop	3.62	LCS	P	0 - 30
LFB	Fenamiphos	4.32	LCS	P	0 - 30
LFB	Fipronil	3.52	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	0.266	LCS	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270D
Batch ID: P360678

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Fipronil Sulfide	6.87	LCS	P	0 - 30
LFB	Fipronil Sulfone	11.2	LCS	P	0 - 30
LFB	Fonofos	0.109	LCS	P	0 - 30
LFB	Hexazinone	8.90	LCS	P	0 - 30
LFB	Malathion	3.58	LCS	P	0 - 30
LFB	Metalaxyl	1.69	LCS	P	0 - 30
LFB	Metolachlor	2.56	LCS	P	0 - 30
LFB	Metribuzin	4.05	LCS	P	0 - 30
LFB	Mevinphos	7.03	LCS	P	0 - 30
LFB	Molinate	1.92	LCS	P	0 - 30
LFB	Norflurazon	4.80	LCS	P	0 - 30
LFB	Oxadiazon	11.4	LCS	P	0 - 30
LFB	Parathion Ethyl	5.78	LCS	P	0 - 30
LFB	Parathion Methyl	12.5	LCS	P	0 - 30
LFB	Pendimethalin	7.77	LCS	P	0 - 30
LFB	Phorate	2.56	LCS	P	0 - 30
LFB	Prodiamine	6.22	LCS	P	0 - 30
LFB	Prometon	9.10	LCS	P	0 - 30
LFB	Prometryn	5.52	LCS	P	0 - 30
LFB	Simazine	10.5	LCS	P	0 - 30
LFB	Tebuconazole	1.70	LCS	P	0 - 30
LFB	Terbufos	1.55	LCS	P	0 - 30
LFB	Terbuthylazine	10.2	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P360935

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2071192	Aldrin	6.13	Spike	P	0 - 30
2071192	Alpha-BHC	4.78	Spike	P	0 - 30
2071192	Alpha-Chlordane	4.95	Spike	P	0 - 30
2071192	Beta-BHC	13.2	Spike	P	0 - 30
2071192	Bifenthrin	6.61	Spike	P	0 - 30
2071192	Carbophenothion	6.73	Spike	P	0 - 30
2071192	Chlorothalonil	2.98	Spike	P	0 - 30
2071192	Cis-Nonachlor	5.48	Spike	P	0 - 30
2071192	Cypermethrin	12.0	Spike	P	0 - 30
2071192	DDD-p,p'	4.24	Spike	P	0 - 30
2071192	DDE-p,p'	0.397	Spike	P	0 - 30
2071192	DDT-p,p'	7.88	Spike	P	0 - 30
2071192	Delta-BHC	9.20	Spike	P	0 - 30
2071192	Dicofol	5.58	Spike	P	0 - 30
2071192	Dieldrin	5.76	Spike	P	0 - 30
2071192	Endosulfan I	6.70	Spike	P	0 - 30
2071192	Endosulfan II	8.09	Spike	P	0 - 30
2071192	Endosulfan Sulfate	12.0	Spike	P	0 - 30
2071192	Endrin	4.69	Spike	P	0 - 30
2071192	Endrin Aldehyde	1.95	Spike	P	0 - 30
2071192	Endrin Ketone	9.94	Spike	P	0 - 30
2071192	Ethalfluralin	9.76	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270D
Batch ID: P360935

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2071192	Gamma-BHC	12.3	Spike	P	0 - 30
2071192	Gamma-Chlordane	4.51	Spike	P	0 - 30
2071192	Heptachlor	8.35	Spike	P	0 - 30
2071192	Heptachlor Epoxide	5.36	Spike	P	0 - 30
2071192	Hexachlorobenzene	18.9	Spike	P	0 - 30
2071192	Methoxychlor	9.06	Spike	P	0 - 30
2071192	Mirex	3.93	Spike	P	0 - 30
2071192	Permethrin	7.05	Spike	P	0 - 30
2071192	Trans-Nonachlor	3.33	Spike	P	0 - 30
2071192	Trifluralin	9.24	Spike	P	0 - 30
LFB	Aldrin	15.2	LCS	P	0 - 30
LFB	Alpha-BHC	4.36	LCS	P	0 - 30
LFB	Alpha-Chlordane	1.34	LCS	P	0 - 30
LFB	Beta-BHC	3.64	LCS	P	0 - 30
LFB	Bifenthrin	3.84	LCS	P	0 - 30
LFB	Carbophenothion	0.467	LCS	P	0 - 30
LFB	Chlorothalonil	2.25	LCS	P	0 - 30
LFB	Cis-Nonachlor	3.25	LCS	P	0 - 30
LFB	Cypermethrin	3.65	LCS	P	0 - 30
LFB	DDD-p,p'	4.90	LCS	P	0 - 30
LFB	DDE-p,p'	0.859	LCS	P	0 - 30
LFB	DDT-p,p'	2.50	LCS	P	0 - 30
LFB	Delta-BHC	13.3	LCS	P	0 - 30
LFB	Dicofol	1.22	LCS	P	0 - 30
LFB	Dieldrin	7.16	LCS	P	0 - 30
LFB	Endosulfan I	11.0	LCS	P	0 - 30
LFB	Endosulfan II	13.5	LCS	P	0 - 30
LFB	Endosulfan Sulfate	12.7	LCS	P	0 - 30
LFB	Endrin	2.07	LCS	P	0 - 30
LFB	Endrin Aldehyde	0.0407	LCS	P	0 - 30
LFB	Endrin Ketone	10.1	LCS	P	0 - 30
LFB	Ethalfluralin	1.63	LCS	P	0 - 30
LFB	Gamma-BHC	0.145	LCS	P	0 - 30
LFB	Gamma-Chlordane	0.930	LCS	P	0 - 30
LFB	Heptachlor	5.29	LCS	P	0 - 30
LFB	Heptachlor Epoxide	5.71	LCS	P	0 - 30
LFB	Hexachlorobenzene	18.2	LCS	P	0 - 30
LFB	Methoxychlor	3.40	LCS	P	0 - 30
LFB	Mirex	4.83	LCS	P	0 - 30
LFB	Permethrin	2.03	LCS	P	0 - 30
LFB	Trans-Nonachlor	0.619	LCS	P	0 - 30
LFB	Trifluralin	1.77	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P360935

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2072200	Chlordane	26.1	Spike	P	0 - 30
2072200	Toxaphene	34.1	Spike	F	0 - 30
LFB	Chlordane	10.4	LCS	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8276
Batch ID: P360935

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

Reference Method: EPA 8321B
Batch ID: P360626

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2071082	3-Hydroxycarbofuran	1.30	Spike	P	0 - 30
2071082	Aldicarb	19.8	Spike	P	0 - 30
2071082	Aldicarb Sulfone	7.54	Spike	P	0 - 30
2071082	Aldicarb Sulfoxide	18.8	Spike	P	0 - 30
2071082	Carbaryl	0.658	Spike	P	0 - 30
2071082	Carbofuran	2.06	Spike	P	0 - 30
2071082	Methiocarb	13.4	Spike	P	0 - 30
2071082	Methomyl	14.7	Spike	P	0 - 30
2071082	Oxamyl	1.89	Spike	P	0 - 30
2071082	Propoxur	3.56	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P360764

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2071307	Acesulfame K	4.12	Spike	P	0 - 30
2071307	AMPA	4.39	Spike	P	0 - 30
2071307	Endothall	2.63	Spike	P	0 - 30
2071307	Glufosinate	5.06	Spike	P	0 - 30
2071307	Glyphosate	10.6	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P360773

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2071546	2,4-D	26.4	Spike	P	0 - 30
2071546	Acetaminophen	6.76	Spike	P	0 - 30
2071546	Bentazon	5.99	Spike	P	0 - 30
2071546	Carbamazepine	10.1	Spike	P	0 - 30
2071546	Diuron	1.87	Spike	P	0 - 30
2071546	Fenuron	3.97	Spike	P	0 - 30
2071546	Fluridone	2.86	Spike	P	0 - 30
2071546	Hydrocodone	5.95	Spike	P	0 - 30
2071546	Ibuprofen	0.352	Spike	P	0 - 30
2071546	Imazapyr	13.9	Spike	P	0 - 30
2071546	Imidacloprid	5.26	Spike	P	0 - 30
2071546	Linuron	5.94	Spike	P	0 - 30
2071546	MCPP	7.83	Spike	P	0 - 30
2071546	Naproxen	13.3	Spike	P	0 - 30
2071546	Primidone	25.9	Spike	P	0 - 30
2071546	Pyraclostrobin	0.860	Spike	P	0 - 30
2071546	Triclopyr	5.22	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P361315

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2070592	Sucralose	22.1	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P360823

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2071243	Color (true)	0.104	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P361243

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2071227	Total Alkalinity	0.471	Sample	P	0 - 1.6

Reference Method: SM 2540 C-97
Batch ID: P361340

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2071260	TDS	1.78	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P361247

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2071227	Fluoride	0.0	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
Batch ID: P361060

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2071261	Organic Carbon	0.0623	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: 2071306
Field Sample ID: G2SW0103

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	70.1	P	30 - 160

Lab Sample ID: 2071307
Field Sample ID: G2SW0103

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	55.6	P	30 - 160
EPA 8321B	Acetaminophen-d4	98.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	78.9	P	30 - 160
EPA 8321B	Diuron-d6	70.7	P	30 - 160
EPA 8321B	Endothall-d6	131	P	30 - 160
EPA 8321B	Endothall-d6	131	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	115	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	115	P	30 - 160
EPA 8321B	Ibuprofen-d3	50.8	P	30 - 160
EPA 8321B	Primidone-d5	77.3	P	30 - 160
EPA 8321B	Sucralose-d6	90.7	P	30 - 160
EPA 8321B	Sucralose-d6	90.7	P	30 - 160

Lab Sample ID: 2071308
Field Sample ID: G2SW0040

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	72.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	91.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	76.1	P	30 - 160
EPA 8321B	Diuron-d6	74.5	P	30 - 160
EPA 8321B	Endothall-d6	133	P	30 - 160
EPA 8321B	Endothall-d6	133	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	85.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	85.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	70.4	P	30 - 160
EPA 8321B	Primidone-d5	77.7	P	30 - 160
EPA 8321B	Sucralose-d6	86.6	P	30 - 160
EPA 8321B	Sucralose-d6	86.6	P	30 - 160

Lab Sample ID: 2071309
Field Sample ID: G2SW0103

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	77.7	P	39 - 109
EPA 8270D	Tetrachloro-m-xylene	66.4	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	61.0	P	30 - 103
EPA 8276	PCNB	135	P	37 - 143

Lab Sample ID: 2071310
Field Sample ID: G2SW0103

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	97.8	P	68 - 130
EPA 8270D	Terbufos-d10	95.2	P	61 - 136

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Reference Method: EPA 180.1 Rev. 2.0
Run ID: A90130
Included Lab Sample IDs: 2071296

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A90131
Included Lab Sample IDs: 2071298

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.8	97.7	P/P	90 - 110

Reference Method: SM 2120 B
Run ID: A90152
Included Lab Sample IDs: 2071296

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	103	103	P/P	90 - 115

Reference Method: EPA 8321B
Run ID: A90161
Included Lab Sample IDs: 2071307, 2071308

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	115	119	P/P	60 - 160
Glufosinate	106	95.4	P/P	60 - 160
Glyphosate	79.5	82.6	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A90203
Included Lab Sample IDs: 2071307, 2071308

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	126	120	P/P	60 - 160
Endothall	117	115	P/P	60 - 160

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A90208
Included Lab Sample IDs: 2071311

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	99.3	98.9	P/P	90 - 110
Calcium	99.3	98.0	P/P	90 - 110
Iron	98.2	98.6	P/P	90 - 110
Magnesium	98.6	99.1	P/P	90 - 110
Potassium	95.9	96.1	P/P	90 - 110
Sodium	98.0	98.0	P/P	90 - 110
Zinc	100	99.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A90215
Included Lab Sample IDs: 2071297

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits

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Reference Method: EPA 353.2 Rev. 2.0
Run ID: A90215
Included Lab Sample IDs: 2071297

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.0	99.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A90235
Included Lab Sample IDs: 2071297

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.7	94.9	P/P	90 - 110

Reference Method: SM 5310 B-00
Run ID: A90238
Included Lab Sample IDs: 2071297

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	93.5	94.4	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A90254
Included Lab Sample IDs: 2071311

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.3	98.3	P/P	90 - 110
Antimony	96.7	97.7	P/P	90 - 110
Arsenic	96.7	97.6	P/P	90 - 110
Boron	99.3	101	P/P	90 - 110
Cadmium	97.6	98.0	P/P	90 - 110
Chromium	98.3	97.8	P/P	90 - 110
Copper	96.2	97.2	P/P	90 - 110
Lead	97.5	98.1	P/P	90 - 110
Nickel	96.4	96.8	P/P	90 - 110
Selenium	97.8	97.1	P/P	90 - 110
Silver	102	102	P/P	90 - 110
Thallium	95.7	94.2	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A90259
Included Lab Sample IDs: 2071296

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.4	102	P/P	90 - 110
Sulfate	101	103	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A90274
Included Lab Sample IDs: 2071307, 2071308

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	105	90.9	P/P	50 - 150
3-Hydroxycarbofuran	101	106	P/P	60 - 150
Acetaminophen	109	92.7	P/P	60 - 160
Aldicarb	91.9	101	P/P	60 - 150

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Calibration Verification

Reference Method: EPA 8321B
Run ID: A90274
Included Lab Sample IDs: 2071306

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldicarb Sulfone	98.9	103	P/P	50 - 150
Aldicarb Sulfoxide	88.6	103	P/P	50 - 150
Bentazon	86.4	91.8	P/P	50 - 160
Carbamazepine	106	91.9	P/P	60 - 150
Carbaryl	92.9	97.9	P/P	60 - 150
Carbofuran	104	106	P/P	50 - 150
Diuron	94.9	108	P/P	60 - 150
Fenuron	108	109	P/P	60 - 150
Fluridone	124	93.4	P/P	60 - 160
Hydrocodone	105	99.1	P/P	60 - 150
Ibuprofen	113	108	P/P	50 - 160
Imazapyr	98.4	83.8	P/P	50 - 150
Imidacloprid	103	106	P/P	60 - 150
Linuron	88.8	104	P/P	60 - 150
MCPP	87.5	96.6	P/P	50 - 150
Methiocarb	89.3	98.9	P/P	50 - 150
Methomyl	91.2	94.4	P/P	50 - 150
Naproxen	97.8	125	P/P	50 - 160
Oxamyl	99.7	102	P/P	50 - 150
Primidone	121	135	P/P	60 - 150
Propoxur	97.7	101	P/P	50 - 150
Pyraclostrobin	87.2	87.3	P/P	60 - 150
Triclopyr	104	101	P/P	50 - 150

Reference Method: EPA 8270D
Run ID: A90287
Included Lab Sample IDs: 2071309

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	93.1		P	80 - 120
Alpha-BHC	95.8		P	80 - 120
Alpha-Chlordane	92.6		P	80 - 120
Beta-BHC	94.9		P	80 - 120
Bifenthrin	97.6		P	80 - 120
Carbophenothion	108		P	80 - 120
Chlorothalonil	102		P	80 - 120
Cis-Nonachlor	92.0		P	80 - 120
Cypermethrin	88.6		P	80 - 120
DDD-p,p'	96.1		P	80 - 120
DDE-p,p'	94.6		P	80 - 120
DDT-p,p'	103		P	80 - 120
Delta-BHC	97.8		P	80 - 120
Dicofol	99.4		P	80 - 120
Dieldrin	91.8		P	80 - 120
Endosulfan I	95.4		P	80 - 120
Endosulfan II	92.9		P	80 - 120
Endosulfan Sulfate	91.9		P	80 - 120
Endrin	92.3		P	80 - 120
Endrin Aldehyde	89.5		P	80 - 120
Endrin Ketone	93.2		P	80 - 120
Ethalfluralin	98.1		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270D
Run ID: A90287
Included Lab Sample IDs: 2071309

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Gamma-BHC	99.0		P	80 - 120
Gamma-Chlordane	91.1		P	80 - 120
Heptachlor	92.6		P	80 - 120
Heptachlor Epoxide	92.2		P	80 - 120
Hexachlorobenzene	99.7		P	80 - 120
Methoxychlor	101		P	80 - 120
Mirex	96.0		P	80 - 120
Permethrin	93.9		P	80 - 120
Trans-Nonachlor	92.1		P	80 - 120
Trifluralin	93.2		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A90288
Included Lab Sample IDs: 2071297

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A90290
Included Lab Sample IDs: 2071297

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	102	P/P	90 - 110

Reference Method: SM 2320 B-97
Run ID: A90311
Included Lab Sample IDs: 2071296

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

Reference Method: SM 4500 F-C-97
Run ID: A90311
Included Lab Sample IDs: 2071296

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

Reference Method: EPA 8276
Run ID: A90424
Included Lab Sample IDs: 2071309

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	102		P	80 - 120
Toxaphene	130*		F	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A90425
Included Lab Sample IDs: 2071307, 2071308

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

Reference Method: EPA 8270D
Run ID: A90451
Included Lab Sample IDs: 2071310

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	103		P	80 - 120
Alachlor	105		P	80 - 120
Ametryn	104		P	80 - 120
Atrazine	93.9		P	80 - 120
Atrazine Desethyl	99.5		P	80 - 120
Azinphos Methyl	93.0		P	80 - 120
Bromacil	99.9		P	80 - 120
Butylate	91.4		P	80 - 120
Chlorpyrifos Ethyl	97.3		P	80 - 120
Chlorpyrifos Methyl	99.1		P	80 - 120
Cyanazine	100		P	80 - 120
Demeton	99.8		P	80 - 120
Diazinon	101		P	80 - 120
Dimethenamid	101		P	80 - 120
Disulfoton	96.4		P	80 - 120
Dithiopyr	101		P	80 - 120
EPTC	97.7		P	80 - 120
Ethion	93.0		P	80 - 120
Ethoprop	102		P	80 - 120
Fenamiphos	95.0		P	80 - 120
Fipronil	93.3		P	80 - 120
Fipronil Desulfinyl	101		P	80 - 120
Fipronil Sulfide	96.5		P	80 - 120
Fipronil Sulfone	91.4		P	80 - 120
Fonofos	93.5		P	80 - 120
Hexazinone	99.6		P	80 - 120
Malathion	98.1		P	80 - 120
Metalaxyl	101		P	80 - 120
Metolachlor	104		P	80 - 120
Metribuzin	88.3		P	80 - 120
Mevinphos	96.2		P	80 - 120
Molinate	97.2		P	80 - 120
Norflurazon	101		P	80 - 120
Oxadiazon	102		P	80 - 120
Parathion Ethyl	96.7		P	80 - 120
Parathion Methyl	97.3		P	80 - 120
Pendimethalin	98.5		P	80 - 120
Phorate	96.2		P	80 - 120
Prodiamine	101		P	80 - 120
Prometon	104		P	80 - 120
Prometryn	102		P	80 - 120
Simazine	100		P	80 - 120
Tebuconazole	101		P	80 - 120
Terbufos	95.2		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270D
Run ID: A90451
Included Lab Sample IDs: 2071310

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Terbuthylazine	98.3		P	80 - 120

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

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			Precision		
							LCS	SMP	MS
EPA 180.1 Rev. 2.0	Turbidity							0.881	
EPA 200.7 Rev. 4.4	Barium	101		97.5	100	96.4			3.89
	Calcium	97.3		98.3	97.3				2.55
	Iron	100		97.7	100	98.2			1.63
	Magnesium	105		96.6	102	97.8			2.39
	Potassium	98.9		97.9	99.4	97.6			1.45
	Sodium	97.8		96.9	95.7				1.50
	Zinc	101		98.1	104	99.8			4.45
EPA 200.8 Rev. 5.4	Aluminum	95.1		95.2	95.5	93.3			2.15
	Antimony	94.8		97.7	97.7	94.4			3.45
	Arsenic	100		99.1	99.3	95.9			3.41
	Boron	93.0		96.7	97.1	94.9			1.73
	Cadmium	95.3		98.9	99.0	95.9			3.18
	Chromium	90.6		90.8	92.3	90.0			2.58
	Copper	96.7		91.5	94.8	91.7			2.47
	Lead	92.5		95.4	97.0	94.3			2.78
	Nickel	96.6		92.0	96.3	94.7			1.70
	Selenium	102		97.9	99.4	92.8			6.86
	Silver	101		100	101	103			2.23
	Thallium	97.5		102	102	100			1.76
EPA 300.0 Rev. 2.1	Chloride	101		98.0	99.1			0.425	
	Sulfate	102		101	99.2			0.294	
EPA 350.1 Rev. 2.0	Ammonia-N	102		109	108				0.143
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	98.2		89.1	87.2				1.14
EPA 353.2 Rev. 2.0	NO2NO3-N	98.5		96.8	97.3				0.396
EPA 365.1 Rev. 2.0	Total-P	96.8		102	94.8				6.30
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.4		96.2	97.5				1.19
EPA 8270D	Acetochlor	96.5	98.3	103	101		1.89		2.38
	Alachlor	94.4	100	103	102		5.78		1.41
	Aldrin	41.8	35.9	59.3	55.7		15.2		6.13
	Alpha-BHC	108	103	116	111		4.36		4.78
	Alpha-Chlordane	84.4	85.6	87.4	83.2		1.34		4.95
	Ametryn	95.2	98.2	98.8	83.3		3.05		12.4
	Atrazine	93.3	105				11.4		4.33
	Atrazine Desethyl	74.3	77.8	101	57.7		4.63		38.0
	Azinphos Methyl	106	111	103	103		4.43		0.490
	Beta-BHC	153	148	160	140		3.64		13.2
	Bifenthrin	87.5	90.9	88.4	82.7		3.84		6.61
	Bromacil	86.0	80.6				6.47		12.7
	Butylate	61.6	66.3	58.2	39.1		7.21		39.2
	Carbophenothion	82.2	82.6	107	114		0.467		6.73
	Chlorothalonil	126	123	29.1	28.3		2.25		2.98
	Chlorpyrifos Ethyl	102	98.2	106	101		3.63		4.78
	Chlorpyrifos Methyl	101	102	111	106		1.20		4.67
	Cis-Nonachlor	87.4	90.3	96.9	91.7		3.25		5.48
	Cyanazine	124	127	100	127		1.90		23.4
	Cypermethrin	96.9	101	120	106		3.65		12.0
	DDD-p,p'	92.4	97.0	92.2	88.3		4.90		4.24
	DDE-p,p'	76.1	75.5	78.7	78.4		0.859		0.397
	DDT-p,p'	98.5	101	104	96.3		2.50		7.88
	Delta-BHC	137	156	173	158		13.3		9.20
	Demeton	95.0	91.7	94.6	77.9		3.54		19.4
	Diazinon	95.4	97.9	114	109		2.58		4.00
	Dicofol	95.3	96.5	97.5	92.2		1.22		5.58

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision		
						LCS	SMP	MS
EPA 8270D	Dieldrin	86.5	93.0	92.3	87.1	7.16		5.76
	Dimethenamid	93.9	103	98.9	101	8.87		1.64
	Disulfoton	97.7	89.5	101	92.2	8.77		8.77
	Dithiopyr	96.3	98.2	103	103	1.97		0.291
	Endosulfan I	90.9	102	107	99.8	11.0		6.70
	Endosulfan II	104	119	133	123	13.5		8.09
	Endosulfan Sulfate	113	128	119	106	12.7		12.0
	Endrin	77.9	79.6	105	99.8	2.07		4.69
	Endrin Aldehyde	112	112	103	101	0.0407		1.95
	Endrin Ketone	105	116	114	103	10.1		9.94
	EPTC	61.8	62.2	30.2	47.1	0.724		43.6
	Ethalfluralin	97.4	95.8	107	97.3	1.63		9.76
	Ethion	82.7	86.6	96.1	94.9	4.67		1.32
	Ethoprop	85.4	88.6	97.2	91.0	3.62		6.53
	Fenamiphos	97.4	93.3	77.1	82.2	4.32		6.44
	Fipronil	84.4	81.5	72.0	93.4	3.52		25.8
	Fipronil Desulfinyl	76.1	76.3	56.7	82.3	0.266		36.9
	Fipronil Sulfide	84.5	78.9	73.6	82.6	6.87		11.5
	Fipronil Sulfone	90.3	80.8	41.9	67.9	11.2		47.3
	Fonofos	91.9	92.0	97.2	93.8	0.109		3.56
	Gamma-BHC	142	143	125	142	0.145		12.3
	Gamma-Chlordane	83.5	82.7	85.2	81.4	0.930		4.51
	Heptachlor	76.3	72.4	85.4	78.5	5.29		8.35
	Heptachlor Epoxide	86.2	91.3	88.8	84.2	5.71		5.36
	Hexachlorobenzene	71.6	59.7	72.5	60.0	18.2		18.9
	Hexazinone	88.0	96.2	111	95.7	8.90		9.00
	Malathion	102	98.1	75.2	81.4	3.58		7.95
	Metalaxyl	89.9	91.4			1.69		7.53
	Methoxychlor	122	126	124	113	3.40		9.06
	Metolachlor	94.8	97.3			2.56		1.93
	Metribuzin	140	135	232	215	4.05		7.46
	Mevinphos	86.0	80.1	83.4	79.2	7.03		5.14
	Mirex	65.7	62.6	75.2	72.3	4.83		3.93
	Molinate	72.6	74.0	79.3	66.7	1.92		17.2
	Norflurazon	88.0	83.9			4.80		21.4
	Oxadiazon	87.2	97.7	98.8	95.2	11.4		3.74
	Parathion Ethyl	84.4	89.5	88.3	95.2	5.78		7.46
	Parathion Methyl	96.0	109	98.7	105	12.5		6.25
	Pendimethalin	82.7	89.3	97.9	112	7.77		13.8
	Permethrin	77.1	75.6	81.4	75.8	2.03		7.05
	Phorate	101	98.4	86.5	96.4	2.56		10.8
	Prodiamine	99.3	93.3	115	115	6.22		0.196
	Prometon	86.6	94.8	91.0	86.7	9.10		4.80
	Prometryn	85.2	90.0	80.1	78.7	5.52		1.72
	Simazine	97.1	108			10.5		3.04
	Tebuconazole	74.3	73.1	93.7	83.1	1.70		12.1
	Terbufos	96.9	95.4	92.8	98.5	1.55		5.94
	Terbuthylazine	91.1	101	95.6	92.3	10.2		3.48
	Trans-Nonachlor	81.1	80.6	83.8	81.0	0.619		3.33
	Trifluralin	87.6	86.1	93.6	85.4	1.77		9.24
EPA 8276	Chlordane	90.0	81.1	62.6	81.4	10.4		26.1
	Toxaphene	82.1	94.0	74.0	104	13.5		34.1
EPA 8321B	2,4-D	84.1		68.7	89.6			26.4
	3-Hydroxycarbofuran	87.3		92.3	93.5			1.30

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Acesulfame K	110	185	193			4.12
	Acetaminophen	106	137	128			6.76
	Aldicarb	96.1	81.8	99.8			19.8
	Aldicarb Sulfone	98.4	99.8	108			7.54
	Aldicarb Sulfoxide	90.8	47.8	57.8			18.8
	AMPA	99.0	108	102			4.39
	Bentazon	113	100	94.2			5.99
	Carbamazepine	87.3	114	103			10.1
	Carbaryl	83.5	76.7	76.2			0.658
	Carbofuran	86.6	79.9	78.2			2.06
	Diuron	103	99.9	102			1.87
	Endothall	119	149	145			2.63
	Fenuron	148	144	138			3.97
	Fluridone	114	118	114			2.86
	Glufosinate	91.7	108	103			5.06
	Glyphosate	87.7	92.1	81.8			10.6
	Hydrocodone	122	102	109			5.95
	Ibuprofen	63.6	65.8	65.5			0.352
	Imazapyr	104	113	98.6			13.9
	Imidacloprid	134	184	174			5.26
	Linuron	80.6	90.5	85.2			5.94
	MCPP	112	114	105			7.83
	Methiocarb	69.6	67.3	76.9			13.4
	Methomyl	84.1	89.9	104			14.7
	Naproxen	71.0	99.4	87.0			13.3
	Oxamyl	94.9	87.1	88.7			1.89
	Primidone	114	122	94.3			25.9
	Propoxur	78.5	75.9	78.7			3.56
	Pyraclostrobin	72.3	107	108			0.860
	Sucralose	108	99.2	63.5			22.1
	Triclopyr	62.3	62.1	58.9			5.22
SM 2120 B	Color (true)	102				0.104	
SM 2320 B-97	Total Alkalinity	105				0.471	
SM 2540 C-97	TDS					1.78	
SM 4500 F-C-97	Fluoride	101	97.3	97.3			0.0
SM 5310 B-00	Organic Carbon	95.8	99.6	99.8			0.0623

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2071296
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2071311
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2071311
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2071296
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2071296
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2071297
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2071297

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2071297
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2071297
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2071298
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	2071309
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2071310
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2071309
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	2071306
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2071307, 2071308
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	2071307, 2071308
SM 2120 B / E31780	True Color measured at 450 nm	2071296
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	2071296
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2071296
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2071296
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2071296
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2071297

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	03/20/2019			03/20/2019 16:08	Adrian Shelby	2071296
EPA 200.7 Rev. 4.4	03/20/2019	03/21/2019 15:15	Elliott D. Healy	03/22/2019 18:22	Betina Topolski	2071311
EPA 200.8 Rev. 5.4	03/20/2019	03/21/2019 15:15	Elliott D. Healy	03/26/2019 22:16	Robert K Palmer	2071311
EPA 300.0 Rev. 2.1	03/20/2019			03/26/2019 18:25	Lipi Saha	2071296
EPA 350.1 Rev. 2.0	03/20/2019			03/27/2019 12:18	Ping Hua	2071297
EPA 351.2 Rev. 2.0	03/20/2019	03/22/2019 12:00	Adrian Shelby	03/26/2019 13:07	Joseph Suarez	2071297
EPA 353.2 Rev. 2.0	03/20/2019			03/22/2019 11:20	Beverly Y. Sanders	2071297
EPA 365.1 Rev. 2.0	03/20/2019	03/27/2019 12:00	Adrian Shelby	03/28/2019 10:59	Rosalyn Ballman	2071297
EPA 365.1 Rev. 2.0 dissolved	03/20/2019			03/20/2019 16:55	Julia Storbeck	2071298
EPA 8270D	03/20/2019	03/20/2019 11:00	Dinesh Mishra	03/25/2019 20:13	Vandana T. Nagar	2071310
	03/20/2019	03/20/2019 11:00	Dinesh Mishra	03/25/2019 20:37	Vandana T. Nagar	2071310
	03/20/2019	03/25/2019 08:00	Rasheda Ghaffari	03/27/2019 22:37	Dinesh Mishra	2071309
EPA 8276	03/20/2019	03/25/2019 08:00	Rasheda Ghaffari	04/03/2019 11:28	Arthur Maknenko	2071309
EPA 8321B	03/20/2019	03/20/2019 14:00	Hoor Shaik	03/26/2019 23:27	Juyoung Kim	2071306
	03/20/2019	03/20/2019 15:00	Rebecca Ware	03/20/2019 17:38	Juyoung Kim	2071307
	03/20/2019	03/20/2019 15:00	Rebecca Ware	03/21/2019 06:57	Juyoung Kim	2071307
	03/20/2019	03/20/2019 17:40	Hoor Shaik	03/20/2019 17:49	Juyoung Kim	2071308
	03/20/2019	03/20/2019 17:40	Hoor Shaik	03/21/2019 07:11	Juyoung Kim	2071308
	03/20/2019	03/26/2019 09:00	Hoor Shaik	03/27/2019 19:37	Juyoung Kim	2071307
	03/20/2019	03/26/2019 09:00	Hoor Shaik	03/27/2019 20:12	Juyoung Kim	2071308
	03/20/2019	04/01/2019 15:45	Rebecca Ware	04/02/2019 13:22	Rebecca Ware	2071307
	03/20/2019	04/01/2019 15:45	Rebecca Ware	04/02/2019 13:31	Rebecca Ware	2071308
SM 2120 B	03/20/2019			03/20/2019 16:04	Mariam Hanna	2071296
SM 2320 B-97	03/20/2019			03/28/2019 16:42	Dale L. Simmons	2071296
SM 2540 C-97	03/20/2019			03/22/2019 14:59	Yijie Li	2071296
SM 2540 D-97	03/20/2019			03/22/2019 14:59	Yijie Li	2071296
SM 4500 F-C-97	03/20/2019			03/28/2019 16:42	Dale L. Simmons	2071296
SM 5310 B-00	03/20/2019			03/26/2019 03:53	Julia Storbeck	2071297