

Chemical Analysis Report

NE-DIST-2018-11-01-01

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

Event Description: **LSJR Southside 1**
Request ID: **RQ-2018-10-29-26**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
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8800 Baymeadows Way West
Suite 100
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Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 27-NOV-2018 13:16

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive, flowing style with a horizontal line above the first name.

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 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: GOODBYS CR ABOVE WEST BRANCH AT SAN CLERC. **Collection Date/Time: 10/31/2018 10:00**

Field ID: 20030891

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2038075	EPA 180.1 Rev. 2.0	Turbidity	6.4	A	NTU	P354071	
	EPA 300.0 Rev. 2.1	Chloride	27		mg Cl/L	P355053	
		Sulfate	16		mg SO4/L	P355058	
	SM 2120 B	Color (true)	35		PCU	P354449	
	SM 2320 B-97	Total Alkalinity	150	A	mg CaCO3/L	P354358	
	SM 2540 C-97	TDS	238		mg/L	P354606	
	SM 2540 D-97	TSS	3	I	mg/L	P354527	
	SM 4500 F-C-97	Fluoride	0.16		mg F/L	P354364	
2038076	EPA 350.1 Rev. 2.0	Ammonia-N	0.048		mg N/L	P354508	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.49		mg N/L	P354291	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.31		mg N/L	P354295	
	EPA 365.1 Rev. 2.0	Total-P	0.089		mg P/L	P354224	
	SM 5310 B-00	Organic Carbon	7.9		mg C/L	P354326	
2038077	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.025		mg P/L	P354081	
2038089	EPA 8321B	2,4-D	0.086		ug/L	P354103	
		Bentazon	0.012		ug/L	P354103	
		MCP	0.0020	U	ug/L	P354103	MS
		Triclopyr**	0.0040	U	ug/L	P354103	
		Imidacloprid	0.017		ug/L	P354103	MS
		Diuron	0.094		ug/L	P354103	
		Pyraclostrobin**	0.0020	U	ug/L	P354103	
		Primidone**	0.0040	U	ug/L	P354103	
		Linuron	0.0040	U	ug/L	P354103	
		Acetaminophen**	0.0080	U	ug/L	P354103	
		Fenuron	0.019	I	ug/L	P354103	
		Imazapyr**	0.79		ug/L	P354103	
		Carbamazepine**	8.0E-04	U	ug/L	P354103	
		Fluridone**	0.016		ug/L	P354103	
		Hydrocodone**	8.0E-04	U	ug/L	P354103	
		Naproxen**	0.0080	U	ug/L	P354103	
		Ibuprofen**	0.020	U	ug/L	P354103	
		Sucralose**	0.062		ug/L	P354052	
		Acesulfame K**	0.16	I	ug/L	P354052	
2038093	EPA 200.7 Rev. 4.4	Calcium	58.3		mg/L	P354217	
		Iron	1.45E+03		ug/L	P354217	
		Magnesium	7.94		mg/L	P354217	
		Potassium	2.6		mg/L	P354217	
		Sodium	21.1		mg/L	P354217	
		Zinc	5.0	U	ug/L	P354217	
	EPA 200.8 Rev. 5.4	Arsenic	2.76		ug/L	P354217	
		Cadmium	0.020	U	ug/L	P354217	
		Chromium	0.40	U	ug/L	P354217	

Field ID: 20030891

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2038093	EPA 200.8 Rev. 5.4	Copper	0.39	I	ug/L	P354217	
		Lead	0.14	I	ug/L	P354217	
		Nickel	0.26	I	ug/L	P354217	
		Silver	0.010	U	ug/L	P354217	

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

Sample Location: MIRAMAR AT SAN JOSE

Collection Date/Time: 10/31/2018 09:05

Field ID: G2NE1164

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2038072	EPA 180.1 Rev. 2.0	Turbidity	2.2		NTU	P354071	
	EPA 300.0 Rev. 2.1	Chloride	110		mg Cl/L	P355053	
		Sulfate	87		mg SO4/L	P355058	
	SM 2120 B	Color (true)	19		PCU	P354449	
	SM 2320 B-97	Total Alkalinity	76		mg CaCO3/L	P354357	
	SM 2540 C-97	TDS	392	A	mg/L	P354606	
	SM 2540 D-97	TSS	2	IA	mg/L	P354527	
	SM 4500 F-C-97	Fluoride	0.14		mg F/L	P354363	
2038073	EPA 350.1 Rev. 2.0	Ammonia-N	0.079		mg N/L	P354508	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.47		mg N/L	P354291	
	EPA 353.2 Rev. 2.0	NO2NO3-N	1.5		mg N/L	P354295	
	EPA 365.1 Rev. 2.0	Total-P	0.052		mg P/L	P354224	
	SM 5310 B-00	Organic Carbon	4.2		mg C/L	P354326	
2038074	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.033		mg P/L	P354081	
2038087	EPA 8321B	Aldicarb	0.020	U	ug/L	P354103	
		Aldicarb Sulfone	0.0020	U	ug/L	P354103	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P354103	
		Carbaryl	0.0020	U	ug/L	P354103	
		Carbofuran	0.0020	U	ug/L	P354103	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P354103	
		Methiocarb	0.0020	U	ug/L	P354103	
		Methomyl	0.0020	U	ug/L	P354103	
		Oxamyl	0.0020	U	ug/L	P354103	
		Propoxur	0.0020	U	ug/L	P354103	
2038088		2,4-D	0.060		ug/L	P354103	
		Bentazon	0.039		ug/L	P354103	
		MCP	0.046	J	ug/L	P354103	MS
		Triclopyr**	0.0040	U	ug/L	P354103	
		Imidacloprid	0.024	J	ug/L	P354103	MS
		Diuron	0.028		ug/L	P354103	
		Pyraclostrobin**	0.0020	U	ug/L	P354103	
		Primidone**	0.0040	U	ug/L	P354103	
		Linuron	0.0040	U	ug/L	P354103	
		Acetaminophen**	0.0080	U	ug/L	P354103	
		Fenuron	0.016	U	ug/L	P354103	
		Imazapyr**	0.025		ug/L	P354103	
		Carbamazepine**	0.018		ug/L	P354103	
		Fluridone**	4.0E-04	U	ug/L	P354103	
		Hydrocodone**	8.0E-04	U	ug/L	P354103	
		Naproxen**	0.0080	U	ug/L	P354103	
		Ibuprofen**	0.020	U	ug/L	P354103	
		Sucralose**	0.92		ug/L	P354052	
		Glyphosate**	0.20	I	ug/L	P354052	

Field ID: G2NE1164

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes		
2038088	EPA 8321B	AMPA**	0.10	U	ug/L	P354052			
		Endothall**	0.25	U	ug/L	P354052			
		Glufosinate**	0.10	U	ug/L	P354052			
		Acesulfame K**	0.55		ug/L	P354052			
2038090	EPA 8270D	Aldrin	4.1	U	ng/L	P354276			
		Alpha-BHC	2.0	U	ng/L	P354276			
		Beta-BHC	4.1	U	ng/L	P354276			
		Delta-BHC	4.1	U	ng/L	P354276	MS		
		Gamma-BHC	4.1	U	ng/L	P354276			
		Carbophenothion	4.1	U	ng/L	P354276			
		Chlorothalonil	2.0	UJ	ng/L	P354276	LCS, RPD		
		Cypermethrin	20	U	ng/L	P354276			
		DDD-p,p'	3.0	U	ng/L	P354276			
		DDE-p,p'	3.0	U	ng/L	P354276			
		DDT-p,p'	3.0	U	ng/L	P354276			
		Dieldrin	13	I	ng/L	P354276			
		Endosulfan I	4.1	U	ng/L	P354276			
		Endosulfan II	4.1	U	ng/L	P354276			
		Endosulfan Sulfate	2.0	U	ng/L	P354276			
		Endrin	2.0	U	ng/L	P354276			
		Endrin Aldehyde	2.0	U	ng/L	P354276			
		Heptachlor	1.5	U	ng/L	P354276			
		Heptachlor Epoxide	2.0	U	ng/L	P354276			
		Methoxychlor	4.1	U	ng/L	P354276			
		Mirex	2.0	U	ng/L	P354276			
		Permethrin	10	U	ng/L	P354276			
		Trifluralin	1.0	U	ng/L	P354276			
		Alpha-Chlordane	1.0	U	ng/L	P354276			
		Gamma-Chlordane	1.0	U	ng/L	P354276			
		Endrin Ketone	2.0	U	ng/L	P354276			
		Dicofol	30	U	ng/L	P354276			
			EPA 8276	Chlordane	6.4	I	ng/L	P354276	
				Toxaphene	30	U	ng/L	P354276	
	2038091	EPA 8270D	Alachlor	0.24	U	ng/L	P354130		
			Ametryn	0.31	U	ng/L	P354130		
			Atrazine	7.0		ng/L	P354130	MS	
Atrazine Desethyl			5.5	I	ng/L	P354130	MS		
Azinphos Methyl			2.1	U	ng/L	P354130			
Bromacil			2.3		ng/L	P354130			
Butylate			0.38	U	ng/L	P354130	RPD		
Chlorpyrifos Ethyl			0.24	U	ng/L	P354130			
Chlorpyrifos Methyl			0.095	U	ng/L	P354130			
Demeton			1.9	U	ng/L	P354130			
Diazinon			0.12	U	ng/L	P354130	MS		
Disulfoton			0.48	U	ng/L	P354130			

Field ID: G2NE1164

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2038091	EPA 8270D	EPTC	1.2	U	ng/L	P354130	RPD
		Ethion	0.14	UJ	ng/L	P354130	RPD
		Ethoprop	0.095	UJ	ng/L	P354130	LCS
		Fenamiphos	0.24	U	ng/L	P354130	
		Fipronil	6.2	J	ng/L	P354130	RPD
		Fipronil Sulfide	3.9		ng/L	P354130	
		Fipronil Sulfone	10		ng/L	P354130	
		Hexazinone	0.48	U	ng/L	P354130	
		Malathion	0.33	U	ng/L	P354130	
		Metribuzin	0.19	UJ	ng/L	P354130	MS, RPD
		Mevinphos	0.48	U	ng/L	P354130	
		Molinate	0.29	U	ng/L	P354130	
		Norflurazon	0.48	U	ng/L	P354130	
		Pendimethalin	0.95	U	ng/L	P354130	
		Phorate	0.24	U	ng/L	P354130	
		Prometon	2.6	I	ng/L	P354130	
		Prometryn	0.19	U	ng/L	P354130	
		Simazine	4.5		ng/L	P354130	
		Terbufos	0.095	UJ	ng/L	P354130	RPD
		Terbutylazine	0.41	U	ng/L	P354130	MS
		Fonofos	0.19	U	ng/L	P354130	
		Metalaxyl	0.24	U	ng/L	P354130	
		Metolachlor	0.70	I	ng/L	P354130	
		Acetochlor	0.24	U	ng/L	P354130	
		Cyanazine	0.48	U	ng/L	P354130	
		Parathion Ethyl	0.24	U	ng/L	P354130	
		Parathion Methyl	0.24	U	ng/L	P354130	
		Dimethenamid**	0.095	U	ng/L	P354130	
		Fipronil Desulfinyl**	0.61	J	ng/L	P354130	
		Dithiopyr**	0.18	I	ng/L	P354130	
		Prodiamine**	0.48	IJ	ng/L	P354130	LCS, RPD
		Oxadiazon**	0.47		ng/L	P354130	
		Tebuconazole**	1.0	IJ	ng/L	P354130	LCS, RPD
2038092	EPA 200.7 Rev. 4.4	Calcium	46.9		mg/L	P354217	
		Iron	420		ug/L	P354217	
		Magnesium	20.2		mg/L	P354217	
		Potassium	4.9		mg/L	P354217	
		Sodium	68.7		mg/L	P354217	
		Zinc	5.1	I	ug/L	P354217	
	EPA 200.8 Rev. 5.4	Arsenic	0.58		ug/L	P354217	
		Cadmium	0.020	I	ug/L	P354217	
		Chromium	0.40	U	ug/L	P354217	
		Copper	0.49	I	ug/L	P354217	
		Lead	0.37		ug/L	P354217	
		Nickel	0.67	I	ug/L	P354217	

Field ID: G2NE1164

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2038092	EPA 200.8 Rev. 5.4	Silver	0.010	U	ug/L	P354217	

Ref. Method and Comment:
SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 4500 F-C-97: Batch matrix spike recoveries are unavailable because of high 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 8270D: Estimated value for Fipronil Desulfinyl due to lack of the second source standard. Refer to the narrative for an explanation of QC Codes.

Sample Location: FIELD BLANK NE ROC DI

Collection Date/Time: 10/31/2018 09:30

Field ID: BLANK 10312018

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2038078	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P354071	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P355053	
		Sulfate	0.20	U	mg SO4/L	P355058	
		Color (true)	2.5	U	PCU	P354449	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P354357	
	SM 2540 C-97	TDS	15	U	mg/L	P354606	
	SM 2540 D-97	TSS	2	U	mg/L	P354527	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P354363	
2038079	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P354508	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P354291	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P354295	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P354224	
	SM 5310 B-00	Organic Carbon	0.50	U	mg C/L	P354326	
2038080	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P354081	
2038094	EPA 200.7 Rev. 4.4	Calcium	0.075	U	mg/L	P354217	
		Iron	30	U	ug/L	P354217	
		Magnesium	0.040	U	mg/L	P354217	
		Potassium	0.30	U	mg/L	P354217	
		Sodium	0.50	U	mg/L	P354217	
		Zinc	5.0	U	ug/L	P354217	
	EPA 200.8 Rev. 5.4	Arsenic	0.050	U	ug/L	P354217	
		Cadmium	0.020	U	ug/L	P354217	
		Chromium	0.40	U	ug/L	P354217	
		Copper	0.20	U	ug/L	P354217	
		Lead	0.050	U	ug/L	P354217	
		Nickel	0.20	U	ug/L	P354217	
		Silver	0.010	U	ug/L	P354217	

Ref. Method and Comment:

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

SM 4500 F-C-97: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P354071

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P354217

Component	Result	Code	Units
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: P354217

Component	Result	Code	Units
Arsenic	0.050	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Copper	0.20	U	ug/L
Lead	0.050	U	ug/L
Nickel	0.20	U	ug/L
Silver	0.010	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P355053

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P355058

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P354508

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P354291

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P354295

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P354224

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P354081

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

Reference Method: EPA 8270D
Batch ID: P354130

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
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	0.25	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	0.25	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
Oxadiazon	0.10	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D
Batch ID: P354130

Component	Result	Code	Units
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.25	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: P354276

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
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 8276
Batch ID: P354276

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P354052

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L
Endothall	0.25	U	ug/L
Glufosinate	0.10	U	ug/L
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B
Batch ID: P354103

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	8.0E-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
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
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Oxamyl	0.0020	U	ug/L
Primidone	0.0040	U	ug/L
Propoxur	0.0020	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2120 B
Batch ID: P354449

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P354357

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P354358

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

Reference Method: SM 2540 C-97
Batch ID: P354606

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P354527

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P354363

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P354364

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P354326

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: P354217

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	108		P	85 - 115
Iron	108		P	85 - 115
Magnesium	113		P	85 - 115
Potassium	109		P	85 - 115
Sodium	112		P	85 - 115
Zinc	105		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P354217

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	105		P	85 - 115
Cadmium	102		P	85 - 115
Chromium	101		P	85 - 115
Copper	102		P	85 - 115
Lead	99.4		P	85 - 115
Nickel	102		P	85 - 115
Silver	96.4		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P355053

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P355058

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P354508

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P354291

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P354295

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P354224

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P354081

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

Reference Method: EPA 8270D
Batch ID: P354130

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	95.5	107	P/P	74 - 119
Alachlor	93.8	96.1	P/P	75 - 118
Ametryn	111	111	P/P	59 - 137
Atrazine	99.1	102	P/P	73 - 120
Atrazine Desethyl	92.4	74.7	P/P	19 - 129
Azinphos Methyl	108	113	P/P	65 - 181
Bromacil	77.6	91.0	P/P	43 - 123
Butylate	44.3	49.1	P/P	28 - 85.0
Chlorpyrifos Ethyl	90.8	94.5	P/P	55 - 112
Chlorpyrifos Methyl	97.2	84.5	P/P	35 - 124
Cyanazine	101	82.0	P/P	26 - 262
Demeton	77.1	63.5	P/P	43 - 122
Diazinon	102	95.8	P/P	72 - 120
Dimethenamid	91.9	105	P/P	60 - 130
Disulfoton	103	77.5	P/P	45 - 137
Dithiopyr	105	107	P/P	60 - 130
EPTC	39.5	46.3	P/P	28 - 95.0
Ethion	69.2	96.2	P/P	63 - 127
Ethoprop	57.6	67.1	F/P	63 - 109
Fenamiphos	75.9	88.4	P/P	66 - 136
Fipronil	79.3	114	P/P	63 - 126
Fipronil Sulfide	81.5	99.6	P/P	59 - 123
Fipronil Sulfone	75.3	97.2	P/P	56 - 122
Fonofos	95.7	79.7	P/P	64 - 114
Hexazinone	94.0	99.1	P/P	49 - 144
Malathion	78.6	101	P/P	68 - 131
Metaxalyl	99.6	94.5	P/P	57 - 126
Metolachlor	80.6	102	P/P	75 - 118
Metribuzin	118	83.1	P/P	46 - 169
Mevinphos	92.1	80.4	P/P	34 - 126
Molinate	52.0	57.3	P/P	37 - 101
Norflurazon	98.1	111	P/P	63 - 127
Oxadiazon	83.9	108	P/P	60 - 130
Parathion Ethyl	83.4	84.6	P/P	78 - 109
Parathion Methyl	111	93.3	P/P	74 - 123
Pendimethalin	82.7	75.1	P/P	51 - 130
Phorate	77.6	63.7	P/P	53 - 116
Prodiamine	110	139	P/F	60 - 130
Prometon	88.0	90.6	P/P	66 - 124
Prometryn	94.8	95.6	P/P	66 - 124

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P354130

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Simazine	105	107	P/P	62 - 134
Tebuconazole	43.8	103	P/F	30 - 100
Terbufos	104	72.2	P/P	59 - 115
Terbutylazine	96.8	103	P/P	76 - 113

Reference Method: EPA 8270D
Batch ID: P354276

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	66.4	68.3	P/P	24 - 89.0
Alpha-BHC	103	105	P/P	58 - 117
Alpha-Chlordane	94.4	91.8	P/P	56 - 115
Beta-BHC	129	126	P/P	55 - 137
Carbophenothion	88.8	94.1	P/P	37 - 145
Chlorothalonil	63.2	25.5	P/F	26 - 163
Cypermethrin	61.2	71.6	P/P	42 - 156
DDD-p,p'	97.8	99.3	P/P	59 - 129
DDE-p,p'	92.8	89.1	P/P	52 - 117
DDT-p,p'	105	102	P/P	48 - 128
Delta-BHC	135	135	P/P	59 - 158
Dicofol	101	98.0	P/P	19 - 124
Dieldrin	104	98.8	P/P	57 - 126
Endosulfan I	96.9	88.8	P/P	59 - 133
Endosulfan II	80.0	81.3	P/P	58 - 148
Endosulfan Sulfate	83.5	86.5	P/P	56 - 135
Endrin	101	99.8	P/P	50 - 140
Endrin Aldehyde	96.5	95.4	P/P	47 - 141
Endrin Ketone	87.1	89.8	P/P	63 - 123
Gamma-BHC	120	123	P/P	59 - 132
Gamma-Chlordane	91.7	87.8	P/P	55 - 112
Heptachlor	73.8	72.6	P/P	45 - 102
Heptachlor Epoxide	97.0	94.1	P/P	61 - 116
Methoxychlor	106	109	P/P	60 - 133
Mirex	68.8	71.3	P/P	40 - 98.0
Permethrin	66.9	73.2	P/P	45 - 131
Trifluralin	92.0	92.6	P/P	38 - 179

Reference Method: EPA 8276
Batch ID: P354276

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	72.9	65.3	P/P	47 - 125
Toxaphene	73.5	68.1	P/P	46 - 147

Reference Method: EPA 8321B
Batch ID: P354052

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	83.2		P	40 - 150
AMPA	104		P	40 - 150
Endothall	106		P	40 - 150
Glufosinate	99.0		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P354052

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Glyphosate	94.3		P	40 - 140
Sucralose	88.1		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P354103

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	105		P	40 - 150
3-Hydroxycarbofuran	107		P	40 - 150
Acetaminophen	131		P	30 - 150
Aldicarb	95.0		P	30 - 150
Aldicarb Sulfone	129		P	40 - 150
Aldicarb Sulfoxide	72.6		P	40 - 150
Bentazon	85.8		P	30 - 150
Carbamazepine	93.3		P	40 - 150
Carbaryl	85.7		P	40 - 150
Carbofuran	81.0		P	40 - 150
Diuron	81.1		P	40 - 150
Fenuron	129		P	40 - 150
Fluridone	113		P	40 - 150
Hydrocodone	124		P	40 - 150
Ibuprofen	86.1		P	40 - 150
Imazapyr	112		P	40 - 150
Imidacloprid	129		P	40 - 160
Linuron	91.7		P	40 - 150
MCPP	118		P	40 - 150
Methiocarb	75.3		P	40 - 150
Methomyl	119		P	40 - 150
Naproxen	80.0		P	40 - 150
Oxamyl	103		P	40 - 150
Primidone	115		P	40 - 150
Propoxur	81.1		P	40 - 150
Pyraclostrobin	82.7		P	40 - 150
Triclopyr	112		P	40 - 150

Reference Method: SM 2120 B
Batch ID: P354449

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	100		P	85 - 115

Reference Method: SM 2320 B-97
Batch ID: P354357

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

Reference Method: SM 2320 B-97
Batch ID: P354358

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	98 - 107

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P354363

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

Reference Method: SM 4500 F-C-97
Batch ID: P354364

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P354326

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P354217

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2037787	Calcium	109		P	80 - 120
2037787	Iron	110		P	80 - 120
2037787	Magnesium	111		P	80 - 120
2037787	Potassium	112		P	80 - 120
2037787	Sodium	110		P	80 - 120
2037787	Zinc	107		P	80 - 120
2037931	Calcium	110		P	80 - 120
2037931	Iron	106		P	80 - 120
2037931	Magnesium	114	114	P/P	80 - 120
2037931	Potassium	117	116	P/P	80 - 120
2037931	Sodium	111	112	P/P	80 - 120
2037931	Zinc	105	106	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P354217

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2037787	Arsenic	103		P	80 - 120
2037787	Cadmium	101		P	80 - 120
2037787	Chromium	103		P	80 - 120
2037787	Copper	100		P	80 - 120
2037787	Lead	98.5		P	80 - 120
2037787	Nickel	100		P	80 - 120
2037787	Silver	94.0		P	80 - 120
2037931	Arsenic	104	103	P/P	80 - 120
2037931	Cadmium	105	104	P/P	80 - 120
2037931	Chromium	102	102	P/P	80 - 120
2037931	Copper	99.7	99.4	P/P	80 - 120
2037931	Lead	99.2	98.5	P/P	80 - 120
2037931	Nickel	100	99.7	P/P	80 - 120
2037931	Silver	97.6	97.6	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P355053

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2037915	Chloride	99.3		P	90 - 110
2038130	Chloride	98.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P355058

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2037915	Sulfate	98.1		P	90 - 110
2038130	Sulfate	95.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P354508

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2038076	Ammonia-N	100	102	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P354291

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2038055	Kjeldahl Nitrogen	98.2	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P354295

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2037916	NO2NO3-N	103	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P354224

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2038076	Total-P	100	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P354081

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2038077	O-Phosphate-P	95.2	96.4	P/P	90 - 110

Reference Method: EPA 8270D
 Batch ID: P354130

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2038293	Acetochlor	123	118	P/P	67 - 125
2038293	Alachlor	113	111	P/P	69 - 123
2038293	Ametryn	121	128	P/P	52 - 151
2038293	Atrazine	128	113	F/P	71 - 125
2038293	Atrazine Desethyl	133	150	F/F	10 - 129
2038293	Azinphos Methyl	139	157	P/P	48 - 200
2038293	Bromacil	112	106	P/P	46 - 130
2038293	Butylate	32.7	65.3	P/P	10 - 85.0
2038293	Chlorpyrifos Ethyl	96.0	87.2	P/P	54 - 115
2038293	Chlorpyrifos Methyl	89.8	88.7	P/P	44 - 117
2038293	Cyanazine	186	206	P/P	10 - 262
2038293	Demeton	67.3	87.3	P/P	24 - 145
2038293	Diazinon	128	129	P/F	66 - 129
2038293	Dimethenamid	122	115	P/P	60 - 130
2038293	Disulfoton	94.7	105	P/P	45 - 139
2038293	Dithiopyr	122	119	P/P	60 - 130
2038293	EPTC	29.1	50.4	P/P	10 - 86.0
2038293	Ethion	97.6	69.2	P/P	59 - 133
2038293	Ethoprop	80.0	80.2	P/P	54 - 116
2038293	Fenamiphos	95.1	77.0	P/P	55 - 140
2038293	Fipronil	121	117	P/P	37 - 142
2038293	Fipronil Sulfide	94.2	90.3	P/P	37 - 130
2038293	Fipronil Sulfone	83.1	81.5	P/P	18 - 143
2038293	Fonofos	89.4	96.1	P/P	55 - 118
2038293	Hexazinone	123	115	P/P	62 - 140
2038293	Malathion	99.0	98.7	P/P	64 - 132
2038293	Metalaxyl	118	115	P/P	55 - 129
2038293	Metolachlor	116	105	P/P	56 - 137

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P354130

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2038293	Metribuzin	220	225	F/F	16 - 218
2038293	Mevinphos	89.2	99.6	P/P	34 - 129
2038293	Molinate	42.7	54.9	P/P	16 - 99.0
2038293	Norflurazon	118	122	P/P	43 - 135
2038293	Oxadiazon	113	104	P/P	60 - 130
2038293	Parathion Ethyl	99.6	93.0	P/P	71 - 112
2038293	Parathion Methyl	108	107	P/P	65 - 127
2038293	Pendimethalin	127	122	P/P	35 - 159
2038293	Phorate	81.4	97.5	P/P	41 - 129
2038293	Prodiamine	111	77.3	P/P	60 - 130
2038293	Prometon	119	115	P/P	56 - 140
2038293	Prometryn	115	109	P/P	65 - 130
2038293	Simazine	115	98.9	P/P	54 - 148
2038293	Tebuconazole	96.9	54.2	P/P	30 - 100
2038293	Terbufos	101	112	P/P	53 - 126
2038293	Terbutylazine	123	119	F/F	73 - 114

Reference Method: EPA 8270D
Batch ID: P354276

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2038799	Aldrin	64.7	61.5	P/P	26 - 96.0
2038799	Alpha-BHC	119	106	P/P	51 - 123
2038799	Alpha-Chlordane	82.1	77.5	P/P	45 - 120
2038799	Beta-BHC	124	121	P/P	43 - 146
2038799	Carbophenothion	106	113	P/P	26 - 179
2038799	Chlorothalonil	79.3	55.7	P/P	10 - 215
2038799	Cypermethrin	91.4	84.6	P/P	35 - 169
2038799	DDD-p,p'	81.9	79.9	P/P	49 - 131
2038799	DDE-p,p'	83.5	79.0	P/P	39 - 127
2038799	DDT-p,p'	106	107	P/P	49 - 120
2038799	Delta-BHC	194	146	F/P	49 - 187
2038799	Dicofol	105	106	P/P	10 - 129
2038799	Dieldrin	87.5	80.9	P/P	46 - 132
2038799	Endosulfan I	94.9	76.8	P/P	57 - 130
2038799	Endosulfan II	98.1	107	P/P	52 - 148
2038799	Endosulfan Sulfate	95.3	91.7	P/P	55 - 129
2038799	Endrin	87.4	77.3	P/P	45 - 133
2038799	Endrin Aldehyde	78.7	68.7	P/P	26 - 140
2038799	Endrin Ketone	95.6	98.7	P/P	60 - 125
2038799	Gamma-BHC	141	135	P/P	50 - 145
2038799	Gamma-Chlordane	80.0	77.1	P/P	44 - 118
2038799	Heptachlor	68.9	61.7	P/P	35 - 106
2038799	Heptachlor Epoxide	84.1	80.8	P/P	52 - 123
2038799	Methoxychlor	104	106	P/P	54 - 132
2038799	Mirex	77.4	74.6	P/P	36 - 107
2038799	Permethrin	87.4	81.1	P/P	47 - 135
2038799	Trifluralin	98.9	99.0	P/P	32 - 228

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8276

Batch ID: P354276

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2038815	Chlordane	89.0	80.2	P/P	41 - 134
2038815	Toxaphene	70.7	77.6	P/P	39 - 158

Reference Method: EPA 8321B

Batch ID: P354052

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2038088	Acesulfame K	106	108	P/P	40 - 150
2038088	AMPA	77.4	72.5	P/P	40 - 150
2038088	Endothall	133	133	P/P	40 - 150
2038088	Glufosinate	80.1	72.6	P/P	40 - 150
2038088	Glyphosate	60.9	55.1	P/P	40 - 140
2038088	Sucralose	81.4	103	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P354103

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2038087	3-Hydroxycarbofuran	96.4	91.7	P/P	40 - 150
2038087	Aldicarb	73.2	76.6	P/P	30 - 150
2038087	Aldicarb Sulfone	110	109	P/P	40 - 150
2038087	Aldicarb Sulfoxide	43.2	42.6	P/P	40 - 150
2038087	Carbaryl	68.2	69.0	P/P	40 - 150
2038087	Carbofuran	64.0	66.0	P/P	40 - 150
2038087	Methiocarb	59.0	59.6	P/P	40 - 150
2038087	Methomyl	102	101	P/P	40 - 150
2038087	Oxamyl	83.4	85.8	P/P	40 - 150
2038087	Propoxur	63.5	62.8	P/P	40 - 150
2038088	2,4-D	125	138	P/P	40 - 150
2038088	Acetaminophen	131	127	P/P	30 - 150
2038088	Bentazon	48.3	48.5	P/P	30 - 150
2038088	Carbamazepine	73.3	71.8	P/P	40 - 150
2038088	Diuron	58.9	53.6	P/P	40 - 150
2038088	Fenuron	132	122	P/P	40 - 150
2038088	Fluridone	114	106	P/P	40 - 150
2038088	Hydrocodone	120	111	P/P	40 - 150
2038088	Ibuprofen	78.1	79.6	P/P	40 - 150
2038088	Imazapyr	116	108	P/P	40 - 150
2038088	Imidacloprid	204	177	F/F	40 - 160
2038088	Linuron	62.7	64.9	P/P	40 - 150
2038088	MCPP	151	145	F/P	40 - 150
2038088	Naproxen	81.8	80.5	P/P	40 - 150
2038088	Primidone	114	107	P/P	40 - 150
2038088	Pyraclostrobin	75.0	73.5	P/P	40 - 150
2038088	Triclopyr	131	132	P/P	40 - 150

Reference Method: SM 4500 F-C-97

Batch ID: P354364

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2038075	Fluoride	101	101	P/P	91 - 105

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 5310 B-00
Batch ID: P354326

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2038052	Organic Carbon	97.4	95.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P354071

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2038075	Turbidity	5.46	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P354217

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2037931	Calcium	0.493	Spike	P	0 - 20
2037931	Iron	0.557	Spike	P	0 - 20
2037931	Magnesium	0.406	Spike	P	0 - 20
2037931	Potassium	0.861	Spike	P	0 - 20
2037931	Sodium	0.488	Spike	P	0 - 20
2037931	Zinc	0.619	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P354217

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2037931	Arsenic	0.157	Spike	P	0 - 20
2037931	Cadmium	0.945	Spike	P	0 - 20
2037931	Chromium	0.536	Spike	P	0 - 20
2037931	Copper	0.317	Spike	P	0 - 20
2037931	Lead	0.663	Spike	P	0 - 20
2037931	Nickel	0.395	Spike	P	0 - 20
2037931	Silver	0.0233	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P355053

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2037915	Chloride	0.165	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P355058

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2037915	Sulfate	0.664	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P354508

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2038076	Ammonia-N	0.805	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P354291

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2038055	Kjeldahl Nitrogen	4.19	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P354295

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2037916	NO2NO3-N	0.966	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P354224

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2038076	Total-P	1.48	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P354081

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2038077	O-Phosphate-P	0.993	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P354130

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2038293	Acetochlor	3.94	Spike	P	0 - 30
2038293	Alachlor	2.18	Spike	P	0 - 30
2038293	Ametryn	5.12	Spike	P	0 - 30
2038293	Atrazine	9.20	Spike	P	0 - 30
2038293	Atrazine Desethyl	11.8	Spike	P	0 - 30
2038293	Azinphos Methyl	12.1	Spike	P	0 - 30
2038293	Bromacil	5.43	Spike	P	0 - 30
2038293	Butylate	66.6	Spike	F	0 - 30
2038293	Chlorpyrifos Ethyl	9.67	Spike	P	0 - 30
2038293	Chlorpyrifos Methyl	1.16	Spike	P	0 - 30
2038293	Cyanazine	10.4	Spike	P	0 - 30
2038293	Demeton	25.8	Spike	P	0 - 30
2038293	Diazinon	1.01	Spike	P	0 - 30
2038293	Dimethenamid	5.84	Spike	P	0 - 30
2038293	Disulfoton	10.3	Spike	P	0 - 30
2038293	Dithiopyr	2.01	Spike	P	0 - 30
2038293	EPTC	53.6	Spike	F	0 - 30
2038293	Ethion	34.1	Spike	F	0 - 30
2038293	Ethoprop	0.331	Spike	P	0 - 30
2038293	Fenamiphos	21.0	Spike	P	0 - 30
2038293	Fipronil	3.58	Spike	P	0 - 30
2038293	Fipronil Sulfide	4.24	Spike	P	0 - 30
2038293	Fipronil Sulfone	1.77	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P354130

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2038293	Fonofos	7.21	Spike	P	0 - 30
2038293	Hexazinone	6.61	Spike	P	0 - 30
2038293	Malathion	0.264	Spike	P	0 - 30
2038293	Metalaxyl	2.17	Spike	P	0 - 30
2038293	Metolachlor	9.95	Spike	P	0 - 30
2038293	Metribuzin	2.20	Spike	P	0 - 30
2038293	Mevinphos	10.9	Spike	P	0 - 30
2038293	Molinate	24.9	Spike	P	0 - 30
2038293	Norflurazon	3.26	Spike	P	0 - 30
2038293	Oxadiazon	8.62	Spike	P	0 - 30
2038293	Parathion Ethyl	6.80	Spike	P	0 - 30
2038293	Parathion Methyl	0.640	Spike	P	0 - 30
2038293	Pendimethalin	4.65	Spike	P	0 - 30
2038293	Phorate	18.0	Spike	P	0 - 30
2038293	Prodiamine	36.2	Spike	F	0 - 30
2038293	Prometon	3.05	Spike	P	0 - 30
2038293	Prometryn	5.67	Spike	P	0 - 30
2038293	Simazine	14.6	Spike	P	0 - 30
2038293	Tebuconazole	53.0	Spike	F	0 - 30
2038293	Terbufos	10.4	Spike	P	0 - 30
2038293	Terbutylazine	3.20	Spike	P	0 - 30
LFB	Acetochlor	11.7	LCS	P	0 - 30
LFB	Alachlor	2.50	LCS	P	0 - 30
LFB	Ametryn	0.595	LCS	P	0 - 30
LFB	Atrazine	2.80	LCS	P	0 - 30
LFB	Atrazine Desethyl	21.3	LCS	P	0 - 30
LFB	Azinphos Methyl	3.89	LCS	P	0 - 30
LFB	Bromacil	15.8	LCS	P	0 - 30
LFB	Butylate	10.3	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	4.02	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	13.9	LCS	P	0 - 30
LFB	Cyanazine	20.7	LCS	P	0 - 30
LFB	Demeton	19.3	LCS	P	0 - 30
LFB	Diazinon	6.40	LCS	P	0 - 30
LFB	Dimethenamid	13.3	LCS	P	0 - 30
LFB	Disulfoton	28.4	LCS	P	0 - 30
LFB	Dithiopyr	1.88	LCS	P	0 - 30
LFB	EPTC	15.7	LCS	P	0 - 30
LFB	Ethion	32.7	LCS	F	0 - 30
LFB	Ethoprop	15.2	LCS	P	0 - 30
LFB	Fenamiphos	15.2	LCS	P	0 - 30
LFB	Fipronil	36.1	LCS	F	0 - 30
LFB	Fipronil Sulfide	20.0	LCS	P	0 - 30
LFB	Fipronil Sulfone	25.4	LCS	P	0 - 30
LFB	Fonofos	18.2	LCS	P	0 - 30
LFB	Hexazinone	5.28	LCS	P	0 - 30
LFB	Malathion	24.8	LCS	P	0 - 30
LFB	Metalaxyl	5.31	LCS	P	0 - 30
LFB	Metolachlor	23.6	LCS	P	0 - 30
LFB	Metribuzin	35.0	LCS	F	0 - 30
LFB	Mevinphos	13.6	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P354130

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Molinate	9.57	LCS	P	0 - 30
LFB	Norflurazon	12.0	LCS	P	0 - 30
LFB	Oxadiazon	25.3	LCS	P	0 - 30
LFB	Parathion Ethyl	1.51	LCS	P	0 - 30
LFB	Parathion Methyl	17.0	LCS	P	0 - 30
LFB	Pendimethalin	9.63	LCS	P	0 - 30
LFB	Phorate	19.7	LCS	P	0 - 30
LFB	Prodiamine	23.0	LCS	P	0 - 30
LFB	Prometon	2.94	LCS	P	0 - 30
LFB	Prometryn	0.872	LCS	P	0 - 30
LFB	Simazine	1.96	LCS	P	0 - 30
LFB	Tebuconazole	80.8	LCS	F	0 - 30
LFB	Terbufos	36.1	LCS	F	0 - 30
LFB	Terbutylazine	5.81	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P354276

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2038799	Aldrin	5.06	Spike	P	0 - 30
2038799	Alpha-BHC	11.5	Spike	P	0 - 30
2038799	Alpha-Chlordane	5.82	Spike	P	0 - 30
2038799	Beta-BHC	2.32	Spike	P	0 - 30
2038799	Carbophenothion	7.07	Spike	P	0 - 30
2038799	Chlorothalonil	35.0	Spike	F	0 - 30
2038799	Cypermethrin	7.69	Spike	P	0 - 30
2038799	DDD-p,p'	2.42	Spike	P	0 - 30
2038799	DDE-p,p'	5.50	Spike	P	0 - 30
2038799	DDT-p,p'	0.467	Spike	P	0 - 30
2038799	Delta-BHC	28.7	Spike	P	0 - 30
2038799	Dicofol	0.213	Spike	P	0 - 30
2038799	Dieldrin	7.80	Spike	P	0 - 30
2038799	Endosulfan I	21.1	Spike	P	0 - 30
2038799	Endosulfan II	8.29	Spike	P	0 - 30
2038799	Endosulfan Sulfate	3.83	Spike	P	0 - 30
2038799	Endrin	12.3	Spike	P	0 - 30
2038799	Endrin Aldehyde	13.6	Spike	P	0 - 30
2038799	Endrin Ketone	3.21	Spike	P	0 - 30
2038799	Gamma-BHC	4.61	Spike	P	0 - 30
2038799	Gamma-Chlordane	3.68	Spike	P	0 - 30
2038799	Heptachlor	11.0	Spike	P	0 - 30
2038799	Heptachlor Epoxide	3.94	Spike	P	0 - 30
2038799	Methoxychlor	1.45	Spike	P	0 - 30
2038799	Mirex	3.71	Spike	P	0 - 30
2038799	Permethrin	7.51	Spike	P	0 - 30
2038799	Trifluralin	0.121	Spike	P	0 - 30
LFB	Aldrin	2.81	LCS	P	0 - 30
LFB	Alpha-BHC	1.58	LCS	P	0 - 30
LFB	Alpha-Chlordane	2.85	LCS	P	0 - 30
LFB	Beta-BHC	2.25	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P354276

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Carbophenothion	5.77	LCS	P	0 - 30
LFB	Chlorothalonil	85.2	LCS	F	0 - 30
LFB	Cypermethrin	15.6	LCS	P	0 - 30
LFB	DDD-p,p'	1.56	LCS	P	0 - 30
LFB	DDE-p,p'	4.07	LCS	P	0 - 30
LFB	DDT-p,p'	2.59	LCS	P	0 - 30
LFB	Delta-BHC	0.00851	LCS	P	0 - 30
LFB	Dicofol	3.05	LCS	P	0 - 30
LFB	Dieldrin	5.43	LCS	P	0 - 30
LFB	Endosulfan I	8.72	LCS	P	0 - 30
LFB	Endosulfan II	1.55	LCS	P	0 - 30
LFB	Endosulfan Sulfate	3.45	LCS	P	0 - 30
LFB	Endrin	0.804	LCS	P	0 - 30
LFB	Endrin Aldehyde	1.11	LCS	P	0 - 30
LFB	Endrin Ketone	3.00	LCS	P	0 - 30
LFB	Gamma-BHC	3.24	LCS	P	0 - 30
LFB	Gamma-Chlordane	4.28	LCS	P	0 - 30
LFB	Heptachlor	1.58	LCS	P	0 - 30
LFB	Heptachlor Epoxide	3.08	LCS	P	0 - 30
LFB	Methoxychlor	2.81	LCS	P	0 - 30
LFB	Mirex	3.45	LCS	P	0 - 30
LFB	Permethrin	8.96	LCS	P	0 - 30
LFB	Trifluralin	0.607	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P354276

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2038815	Chlordane	10.4	Spike	P	0 - 30
2038815	Toxaphene	9.38	Spike	P	0 - 30
LFB	Chlordane	11.0	LCS	P	0 - 30
LFB	Toxaphene	7.55	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P354052

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2038088	Acesulfame K	0.918	Spike	P	0 - 30
2038088	AMPA	6.60	Spike	P	0 - 30
2038088	Endothall	0.246	Spike	P	0 - 30
2038088	Glufosinate	9.80	Spike	P	0 - 30
2038088	Glyphosate	7.53	Spike	P	0 - 30
2038088	Sucralose	16.7	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P354103

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

Reference Method: EPA 8321B
 Batch ID: P354103

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2038087	3-Hydroxycarbofuran	5.00	Spike	P	0 - 30
2038087	Aldicarb	4.58	Spike	P	0 - 30
2038087	Aldicarb Sulfone	1.16	Spike	P	0 - 30
2038087	Aldicarb Sulfoxide	1.44	Spike	P	0 - 30
2038087	Carbaryl	1.24	Spike	P	0 - 30
2038087	Carbofuran	3.01	Spike	P	0 - 30
2038087	Methiocarb	1.05	Spike	P	0 - 30
2038087	Methomyl	0.557	Spike	P	0 - 30
2038087	Oxamyl	2.79	Spike	P	0 - 30
2038087	Propoxur	1.17	Spike	P	0 - 30
2038088	2,4-D	6.27	Spike	P	0 - 30
2038088	Acetaminophen	2.80	Spike	P	0 - 30
2038088	Bentazon	0.207	Spike	P	0 - 30
2038088	Carbamazepine	1.63	Spike	P	0 - 30
2038088	Diuron	5.85	Spike	P	0 - 30
2038088	Fenuron	7.71	Spike	P	0 - 30
2038088	Fluridone	7.93	Spike	P	0 - 30
2038088	Hydrocodone	8.07	Spike	P	0 - 30
2038088	Ibuprofen	1.97	Spike	P	0 - 30
2038088	Imazapyr	6.30	Spike	P	0 - 30
2038088	Imidacloprid	12.1	Spike	P	0 - 30
2038088	Linuron	3.45	Spike	P	0 - 30
2038088	MCP	2.76	Spike	P	0 - 30
2038088	Naproxen	1.51	Spike	P	0 - 30
2038088	Primidone	5.94	Spike	P	0 - 30
2038088	Pyraclostrobin	2.10	Spike	P	0 - 30
2038088	Triclopyr	1.01	Spike	P	0 - 30

Reference Method: SM 2120 B
 Batch ID: P354449

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2038049	Color (true)	0.305	Sample	P	0 - 20

Reference Method: SM 2320 B-97
 Batch ID: P354357

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2037675	Total Alkalinity	0.756	Sample	P	0 - 1.6

Reference Method: SM 2320 B-97
 Batch ID: P354358

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2038075	Total Alkalinity	0.592	Sample	P	0 - 1.6

Quality Assurance Report Precision

Reference Method: SM 2540 C-97
Batch ID: P354606

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2038072	TDS	0.766	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P354363

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2037675	Fluoride	0.469	Spike	P	0 - 3.5

Reference Method: SM 4500 F-C-97
Batch ID: P354364

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2038075	Fluoride	0.0	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
Batch ID: P354326

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2038052	Organic Carbon	0.948	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: 2038087
Field Sample ID: G2NE1164

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	74.7	P	30 - 160

Lab Sample ID: 2038088
Field Sample ID: G2NE1164

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	115	P	30 - 160
EPA 8321B	Acetaminophen-d4	124	P	30 - 160
EPA 8321B	Carbamazepine-d10	83.0	P	30 - 160
EPA 8321B	Diuron-d6	96.5	P	30 - 160
EPA 8321B	Endothall-d6	117	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	77.3	P	40 - 160
EPA 8321B	Ibuprofen-d3	91.7	P	30 - 160
EPA 8321B	Primidone-d5	89.9	P	30 - 160
EPA 8321B	Sucralose-d6	88.2	P	40 - 160

Lab Sample ID: 2038089
Field Sample ID: 20030891

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	95.0	P	30 - 160
EPA 8321B	Acetaminophen-d4	127	P	30 - 160
EPA 8321B	Carbamazepine-d10	69.7	P	30 - 160
EPA 8321B	Diuron-d6	81.7	P	30 - 160
EPA 8321B	Endothall-d6	123	P	40 - 160
EPA 8321B	Ibuprofen-d3	77.6	P	30 - 160
EPA 8321B	Primidone-d5	103	P	30 - 160
EPA 8321B	Sucralose-d6	109	P	40 - 160

Lab Sample ID: 2038090
Field Sample ID: G2NE1164

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	69.1	P	37 - 117
EPA 8270D	Tetrachloro-m-xylene	53.0	P	34 - 101
EPA 8276	Decachlorobiphenyl	58.2	P	31 - 108
EPA 8276	PCNB	76.5	P	62 - 142

Lab Sample ID: 2038091
Field Sample ID: G2NE1164

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	98.7	P	71 - 126
EPA 8270D	Terbufos-d10	101	P	59 - 149

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A87461

Included Lab Sample IDs: 2038072, 2038075, 2038078

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A87463

Included Lab Sample IDs: 2038074, 2038077, 2038080

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	101	99.0	P/P	90 - 110
O-Phosphate-P	99.0	99.9	P/P	90 - 110
O-Phosphate-P	99.8	99.3	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A87506

Included Lab Sample IDs: 2038088, 2038089

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	88.5	91.0	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A87510

Included Lab Sample IDs: 2038088, 2038089

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	92.2	82.4	P/P	60 - 160
Endothall	123	105	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A87521

Included Lab Sample IDs: 2038088

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	135	142	P/P	60 - 160
Glufosinate	123	117	P/P	60 - 160
Glyphosate	122	120	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A87559

Included Lab Sample IDs: 2038073, 2038076

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	103	P/P	90 - 110
Total-P	103	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A87560

Included Lab Sample IDs: 2038073, 2038076, 2038079

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	102	P/P	90 - 110
NO2NO3-N	102	103	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A87578

Included Lab Sample IDs: 2038079

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.8	99.8	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A87579

Included Lab Sample IDs: 2038092, 2038093, 2038094

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	100	98.5	P/P	90 - 110
Calcium	102	102	P/P	95 - 105
Iron	100	98.0	P/P	90 - 110
Iron	104	105	P/P	95 - 105
Magnesium	101	98.8	P/P	90 - 110
Magnesium	104	105	P/P	95 - 105
Potassium	102	104	P/P	95 - 105
Potassium	98.8	98.0	P/P	90 - 110
Sodium	102	105	P/P	95 - 105
Sodium	99.6	99.4	P/P	90 - 110
Zinc	100	102	P/P	95 - 105
Zinc	102	103	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A87585

Included Lab Sample IDs: 2038073, 2038076, 2038079

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.8	96.4	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A87599

Included Lab Sample IDs: 2038072, 2038075, 2038078

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	104	100	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A87599

Included Lab Sample IDs: 2038072, 2038075, 2038078

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A87623

Included Lab Sample IDs: 2038092, 2038093, 2038094

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	102	101	P/P	90 - 110
Arsenic	102	102	P/P	90 - 110
Arsenic	102	103	P/P	90 - 110
Cadmium	100	99.1	P/P	90 - 110
Cadmium	101	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A87623

Included Lab Sample IDs: 2038092, 2038093, 2038094

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chromium	101	98.9	P/P	90 - 110
Chromium	101	100	P/P	90 - 110
Chromium	100	102	P/P	90 - 110
Copper	100	101	P/P	90 - 110
Copper	101	102	P/P	90 - 110
Copper	103	102	P/P	90 - 110
Lead	100	100	P/P	90 - 110
Lead	100	100	P/P	90 - 110
Lead	101	99.8	P/P	90 - 110
Nickel	101	101	P/P	90 - 110
Nickel	101	101	P/P	90 - 110
Nickel	102	101	P/P	90 - 110
Silver	94.1	94.8	P/P	90 - 110
Silver	94.7	94.1	P/P	90 - 110
Silver	94.8	94.1	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A87626

Included Lab Sample IDs: 2038088, 2038089

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	79.8	102	P/P	50 - 150
2,4-D	86.5	101	P/P	50 - 150
3-Hydroxycarbofuran	112	109	P/P	50 - 150
Acetaminophen	118	97.7	P/P	60 - 160
Acetaminophen	97.7	122	P/P	60 - 160
Aldicarb	88.8	100	P/P	60 - 150
Aldicarb Sulfone	114	112	P/P	50 - 150
Aldicarb Sulfoxide	110	101	P/P	50 - 150
Bentazon	109	116	P/P	50 - 160
Bentazon	98.4	106	P/P	50 - 160
Carbamazepine	111	116	P/P	60 - 160
Carbamazepine	113	111	P/P	60 - 160
Carbaryl	121	118	P/P	60 - 150
Carbofuran	112	111	P/P	50 - 150
Diuron	111	99.8	P/P	60 - 150
Diuron	99.8	109	P/P	60 - 150
Fenuron	106	118	P/P	60 - 150
Fenuron	118	115	P/P	60 - 150
Fluridone	123	128	P/P	60 - 160
Fluridone	128	123	P/P	60 - 160
Hydrocodone	109	109	P/P	60 - 150
Hydrocodone	109	110	P/P	60 - 150
Ibuprofen	76.0	106	P/P	50 - 160
Ibuprofen	86.7	116	P/P	50 - 160
Imazapyr	104	109	P/P	50 - 150
Imazapyr	76.6	104	P/P	50 - 150
Imidacloprid	112	113	P/P	60 - 160
Imidacloprid	113	101	P/P	60 - 160
Linuron	116	127	P/P	60 - 150
Linuron	127	116	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A87626

Included Lab Sample IDs: 2038088, 2038089

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
MCPP	100	99.3	P/P	50 - 150
MCPP	93.9	102	P/P	50 - 150
Methiocarb	113	111	P/P	50 - 150
Methomyl	102	108	P/P	50 - 150
Naproxen	74.6	110	P/P	50 - 160
Naproxen	95.9	96.8	P/P	50 - 160
Oxamyl	103	93.6	P/P	50 - 150
Primidone	107	111	P/P	60 - 160
Primidone	115	107	P/P	60 - 160
Propoxur	107	108	P/P	50 - 150
Pyraclostrobin	101	92.3	P/P	60 - 150
Pyraclostrobin	92.3	97.2	P/P	60 - 150
Triclopyr	106	106	P/P	50 - 160
Triclopyr	98.7	99.2	P/P	50 - 160

Reference Method: SM 2120 B

Run ID: A87642

Included Lab Sample IDs: 2038072, 2038075, 2038078

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	97.1	99.8	P/P	90 - 115

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A87646

Included Lab Sample IDs: 2038073, 2038076, 2038079

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	104	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A87674

Included Lab Sample IDs: 2038073, 2038076, 2038079

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	101	P/P	90 - 110
Ammonia-N	101	99.5	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A87705

Included Lab Sample IDs: 2038092

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

Reference Method: EPA 8270D

Run ID: A87724

Included Lab Sample IDs: 2038090

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	89.7		P	80 - 120
Alpha-BHC	92.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A87724

Included Lab Sample IDs: 2038090

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Alpha-Chlordane	93.2		P	80 - 120
Beta-BHC	91.6		P	80 - 120
Carbophenothion	116		P	80 - 120
Chlorothalonil	82.9		P	80 - 120
Cypermethrin	91.9		P	80 - 120
DDD-p,p'	94.3		P	80 - 120
DDE-p,p'	93.0		P	80 - 120
DDT-p,p'	98.6		P	80 - 120
Delta-BHC	90.1		P	80 - 120
Dicofol	103		P	80 - 120
Dieldrin	96.9		P	80 - 120
Endosulfan I	88.8		P	80 - 120
Endosulfan II	96.7		P	80 - 120
Endosulfan Sulfate	94.3		P	80 - 120
Endrin	92.2		P	80 - 120
Endrin Aldehyde	88.8		P	80 - 120
Endrin Ketone	96.0		P	80 - 120
Gamma-BHC	92.3		P	80 - 120
Gamma-Chlordane	92.3		P	80 - 120
Heptachlor	86.8		P	80 - 120
Heptachlor Epoxide	91.2		P	80 - 120
Methoxychlor	104		P	80 - 120
Mirex	91.1		P	80 - 120
Permethrin	91.0		P	80 - 120
Trifluralin	88.8		P	80 - 120

Reference Method: EPA 8276

Run ID: A87764

Included Lab Sample IDs: 2038090

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	93.5		P	80 - 120
Toxaphene	95.6		P	80 - 120

Reference Method: EPA 8270D

Run ID: A87841

Included Lab Sample IDs: 2038091

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	97.4		P	80 - 120
Alachlor	101		P	80 - 120
Ametryn	95.1		P	80 - 120
Atrazine	102		P	80 - 120
Atrazine Desethyl	107		P	80 - 120
Azinphos Methyl	99.1		P	80 - 120
Bromacil	94.1		P	80 - 120
Butylate	99.2		P	80 - 120
Chlorpyrifos Ethyl	98.3		P	80 - 120
Chlorpyrifos Methyl	97.5		P	80 - 120
Cyanazine	113		P	80 - 120
Demeton	98.8		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A87841

Included Lab Sample IDs: 2038091

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Diazinon	97.9		P	80 - 120
Dimethenamid	98.7		P	80 - 120
Disulfoton	96.2		P	80 - 120
Dithiopyr	102		P	80 - 120
EPTC	102		P	80 - 120
Ethion	96.9		P	80 - 120
Ethoprop	106		P	80 - 120
Fenamiphos	95.9		P	80 - 120
Fipronil	97.5		P	80 - 120
Fipronil Desulfinyl	101		P	80 - 120
Fipronil Sulfide	97.0		P	80 - 120
Fipronil Sulfone	98.0		P	80 - 120
Fonofos	98.0		P	80 - 120
Hexazinone	97.2		P	80 - 120
Malathion	96.8		P	80 - 120
Metalaxyl	99.5		P	80 - 120
Metolachlor	102		P	80 - 120
Metribuzin	100		P	80 - 120
Mevinphos	101		P	80 - 120
Molinate	97.4		P	80 - 120
Norflurazon	93.0		P	80 - 120
Oxadiazon	102		P	80 - 120
Parathion Ethyl	96.1		P	80 - 120
Parathion Methyl	96.7		P	80 - 120
Pendimethalin	102		P	80 - 120
Phorate	93.5		P	80 - 120
Prodiamine	101		P	80 - 120
Prometon	97.5		P	80 - 120
Prometryn	97.8		P	80 - 120
Simazine	101		P	80 - 120
Tebuconazole	98.2		P	80 - 120
Terbufos	96.0		P	80 - 120
Terbuthylazine	98.6		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A87936

Included Lab Sample IDs: 2038072, 2038075, 2038078

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

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision	MS
							SMP	
EPA 180.1 Rev. 2.0	Turbidity						5.46	
EPA 200.7 Rev. 4.4	Calcium	108		109	110			0.493
	Iron	108		110	106			0.557
	Magnesium	113		111	114	114		0.406
	Potassium	109		112	117	116		0.861
	Sodium	112		110	111	112		0.488
	Zinc	105		107	105	106		0.619
EPA 200.8 Rev. 5.4	Arsenic	105		103	104	103		0.157
	Cadmium	102		101	105	104		0.945
	Chromium	101		103	102	102		0.536
	Copper	102		100	99.7	99.4		0.317
	Lead	99.4		98.5	99.2	98.5		0.663
	Nickel	102		100	100	99.7		0.395
	Silver	96.4		94.0	97.6	97.6		0.0233
EPA 300.0 Rev. 2.1	Chloride	102		99.3	98.0		0.165	
	Sulfate	101		98.1	95.4		0.664	
EPA 350.1 Rev. 2.0	Ammonia-N	99.6		100	102			0.805
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103		98.2	104			4.19
EPA 353.2 Rev. 2.0	NO2NO3-N	104		103	104			0.966
EPA 365.1 Rev. 2.0	Total-P	102		100	102			1.48
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.2		95.2	96.4			0.993
EPA 8270D	Acetochlor	95.5	107	123	118	11.7		3.94
	Alachlor	93.8	96.1	113	111	2.50		2.18
	Aldrin	66.4	68.3	64.7	61.5	2.81		5.06
	Alpha-BHC	103	105	119	106	1.58		11.5
	Alpha-Chlordane	94.4	91.8	82.1	77.5	2.85		5.82
	Ametryn	111	111	121	128	0.595		5.12
	Atrazine	99.1	102	128	113	2.80		9.20
	Atrazine Desethyl	92.4	74.7	133	150	21.3		11.8
	Azinphos Methyl	108	113	139	157	3.89		12.1
	Beta-BHC	129	126	124	121	2.25		2.32
	Bromacil	77.6	91.0	112	106	15.8		5.43
	Butylate	44.3	49.1	32.7	65.3	10.3		66.6
	Carbophenothion	88.8	94.1	106	113	5.77		7.07
	Chlorothalonil	63.2	25.5	79.3	55.7	85.2		35.0
	Chlorpyrifos Ethyl	90.8	94.5	96.0	87.2	4.02		9.67
	Chlorpyrifos Methyl	97.2	84.5	89.8	88.7	13.9		1.16
	Cyanazine	101	82.0	186	206	20.7		10.4
	Cypermethrin	61.2	71.6	91.4	84.6	15.6		7.69
	DDD-p,p'	97.8	99.3	81.9	79.9	1.56		2.42
	DDE-p,p'	92.8	89.1	83.5	79.0	4.07		5.50
	DDT-p,p'	105	102	106	107	2.59		0.467
	Delta-BHC	135	135	194	146	0.0085		28.7
	Demeton	77.1	63.5	67.3	87.3	19.3		25.8
	Diazinon	102	95.8	128	129	6.40		1.01
	Dicofol	101	98.0	105	106	3.05		0.213
	Dieldrin	104	98.8	87.5	80.9	5.43		7.80
	Dimethenamid	91.9	105	122	115	13.3		5.84
	Disulfoton	103	77.5	94.7	105	28.4		10.3
	Dithiopyr	105	107	122	119	1.88		2.01
	Endosulfan I	96.9	88.8	94.9	76.8	8.72		21.1
	Endosulfan II	80.0	81.3	98.1	107	1.55		8.29
	Endosulfan Sulfate	83.5	86.5	95.3	91.7	3.45		3.83
	Endrin	101	99.8	87.4	77.3	0.804		12.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Endrin Aldehyde	96.5	95.4	78.7	68.7	1.11	13.6
	Endrin Ketone	87.1	89.8	95.6	98.7	3.00	3.21
	EPTC	39.5	46.3	29.1	50.4	15.7	53.6
	Ethion	69.2	96.2	97.6	69.2	32.7	34.1
	Ethoprop	57.6	67.1	80.0	80.2	15.2	0.331
	Fenamiphos	75.9	88.4	95.1	77.0	15.2	21.0
	Fipronil	79.3	114	121	117	36.1	3.58
	Fipronil Sulfide	81.5	99.6	94.2	90.3	20.0	4.24
	Fipronil Sulfone	75.3	97.2	83.1	81.5	25.4	1.77
	Fonofos	95.7	79.7	89.4	96.1	18.2	7.21
	Gamma-BHC	120	123	141	135	3.24	4.61
	Gamma-Chlordane	91.7	87.8	80.0	77.1	4.28	3.68
	Heptachlor	73.8	72.6	68.9	61.7	1.58	11.0
	Heptachlor Epoxide	97.0	94.1	84.1	80.8	3.08	3.94
	Hexazinone	94.0	99.1	123	115	5.28	6.61
	Malathion	78.6	101	99.0	98.7	24.8	0.264
	Metalaxyl	99.6	94.5	118	115	5.31	2.17
	Methoxychlor	106	109	104	106	2.81	1.45
	Metolachlor	80.6	102	116	105	23.6	9.95
	Metribuzin	118	83.1	220	225	35.0	2.20
	Mevinphos	92.1	80.4	89.2	99.6	13.6	10.9
	Mirex	68.8	71.3	77.4	74.6	3.45	3.71
	Molinate	52.0	57.3	42.7	54.9	9.57	24.9
	Norflurazon	98.1	111	118	122	12.0	3.26
	Oxadiazon	83.9	108	113	104	25.3	8.62
	Parathion Ethyl	83.4	84.6	99.6	93.0	1.51	6.80
	Parathion Methyl	111	93.3	108	107	17.0	0.640
	Pendimethalin	82.7	75.1	127	122	9.63	4.65
	Permethrin	66.9	73.2	87.4	81.1	8.96	7.51
	Phorate	77.6	63.7	81.4	97.5	19.7	18.0
	Prodimamine	110	139	111	77.3	23.0	36.2
	Prometon	88.0	90.6	119	115	2.94	3.05
	Prometryn	94.8	95.6	115	109	0.872	5.67
	Simazine	105	107	115	98.9	1.96	14.6
	Tebuconazole	43.8	103	96.9	54.2	80.8	53.0
	Terbufos	104	72.2	101	112	36.1	10.4
	Terbutylazine	96.8	103	123	119	5.81	3.20
	Trifluralin	92.0	92.6	98.9	99.0	0.607	0.121
EPA 8276	Chlordane	72.9	65.3	89.0	80.2	11.0	10.4
	Toxaphene	73.5	68.1	70.7	77.6	7.55	9.38
EPA 8321B	2,4-D	105		125	138		6.27
	3-Hydroxycarbofuran	107		96.4	91.7		5.00
	Acesulfame K	83.2		106	108		0.918
	Acetaminophen	131		131	127		2.80
	Aldicarb	95.0		73.2	76.6		4.58
	Aldicarb Sulfone	129		110	109		1.16
	Aldicarb Sulfoxide	72.6		43.2	42.6		1.44
	AMPA	104		77.4	72.5		6.60
	Bentazon	85.8		48.3	48.5		0.207
	Carbamazepine	93.3		73.3	71.8		1.63
	Carbaryl	85.7		68.2	69.0		1.24
	Carbofuran	81.0		64.0	66.0		3.01
	Diuron	81.1		58.9	53.6		5.85
	Endothall	106		133	133		0.246

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Fenuron	129	132	122		7.71
	Fluridone	113	114	106		7.93
	Glufosinate	99.0	80.1	72.6		9.80
	Glyphosate	94.3	60.9	55.1		7.53
	Hydrocodone	124	120	111		8.07
	Ibuprofen	86.1	78.1	79.6		1.97
	Imazapyr	112	116	108		6.30
	Imidacloprid	129	204	177		12.1
	Linuron	91.7	62.7	64.9		3.45
	MCPP	118	151	145		2.76
	Methiocarb	75.3	59.0	59.6		1.05
	Methomyl	119	102	101		0.557
	Naproxen	80.0	81.8	80.5		1.51
	Oxamyl	103	83.4	85.8		2.79
	Primidone	115	114	107		5.94
	Propoxur	81.1	63.5	62.8		1.17
	Pyraclostrobin	82.7	75.0	73.5		2.10
	Sucralose	88.1	81.4	103		16.7
	Triclopyr	112	131	132		1.01
SM 2120 B	Color (true)	100			0.305	
SM 2320 B-97	Total Alkalinity	101			0.756	
	Total Alkalinity	103			0.592	
SM 2540 C-97	TDS				0.766	
SM 4500 F-C-97	Fluoride	101				0.469
	Fluoride	102	101	101		0.0
SM 5310 B-00	Organic Carbon	97.0	97.4	95.8		0.948

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2038072, 2038075, 2038078
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2038092, 2038093, 2038094
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2038092, 2038093, 2038094
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2038072, 2038075, 2038078
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2038072, 2038075, 2038078
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2038073, 2038076, 2038079
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2038073, 2038076, 2038079
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2038073, 2038076, 2038079
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2038073, 2038076, 2038079
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2038074, 2038077, 2038080
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	2038090
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2038091
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2038090
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	2038087

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2038088, 2038089
SM 2120 B / E31780	True Color measured at 450 nm	2038072, 2038075, 2038078
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2038072, 2038075, 2038078
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2038072, 2038075, 2038078
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2038072, 2038075, 2038078
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2038072, 2038075, 2038078
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2038073, 2038076, 2038079

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	11/01/2018			11/01/2018 16:10	Megan Treadwell	2038072, 2038075, 2038078
EPA 200.7 Rev. 4.4	11/01/2018	11/05/2018 14:50	Elliott D. Healy	11/06/2018 12:51	Betina Topolski	2038094
	11/01/2018	11/05/2018 14:50	Elliott D. Healy	11/06/2018 17:38	Betina Topolski	2038092
	11/01/2018	11/05/2018 14:50	Elliott D. Healy	11/06/2018 17:45	Betina Topolski	2038093
EPA 200.8 Rev. 5.4	11/01/2018	11/05/2018 14:50	Elliott D. Healy	11/07/2018 14:04	Allison Taylor	2038094
	11/01/2018	11/05/2018 14:50	Elliott D. Healy	11/07/2018 18:34	Allison Taylor	2038092
	11/01/2018	11/05/2018 14:50	Elliott D. Healy	11/07/2018 19:13	Allison Taylor	2038093
	11/01/2018	11/05/2018 14:50	Elliott D. Healy	11/09/2018 15:49	Allison Taylor	2038092
EPA 300.0 Rev. 2.1	11/01/2018			11/21/2018 22:23	Lipi Saha	2038072
	11/01/2018			11/21/2018 22:35	Lipi Saha	2038078
	11/01/2018			11/21/2018 23:00	Lipi Saha	2038075
EPA 350.1 Rev. 2.0	11/01/2018			11/08/2018 12:13	Ping Hua	2038073
	11/01/2018			11/08/2018 12:14	Ping Hua	2038076
	11/01/2018			11/08/2018 12:26	Ping Hua	2038079
EPA 351.2 Rev. 2.0	11/01/2018	11/06/2018 12:30	Adrian Shelby	11/08/2018 13:42	Joseph Suarez	2038073
	11/01/2018	11/06/2018 12:30	Adrian Shelby	11/08/2018 13:44	Joseph Suarez	2038076
	11/01/2018	11/06/2018 12:30	Adrian Shelby	11/08/2018 13:45	Joseph Suarez	2038079
EPA 353.2 Rev. 2.0	11/01/2018			11/06/2018 12:28	Lauren Bottorf	2038079
	11/01/2018			11/06/2018 13:51	Lauren Bottorf	2038073
	11/01/2018			11/06/2018 13:53	Lauren Bottorf	2038076
EPA 365.1 Rev. 2.0	11/01/2018	11/05/2018 11:55	Sima Feizi	11/06/2018 11:25	Beverly Y. Sanders	2038076
	11/01/2018	11/05/2018 11:55	Sima Feizi	11/06/2018 11:36	Beverly Y. Sanders	2038073
	11/01/2018	11/05/2018 11:55	Sima Feizi	11/06/2018 16:32	Beverly Y. Sanders	2038079
EPA 365.1 Rev. 2.0 dissolved	11/01/2018			11/01/2018 14:49	Julia Storbeck	2038077
	11/01/2018			11/01/2018 15:17	Julia Storbeck	2038074
	11/01/2018			11/01/2018 15:26	Julia Storbeck	2038080
EPA 8270D	11/01/2018	11/05/2018 08:30	Fe-Val Siddell	11/06/2018 16:20	Vandana T. Nagar	2038091
	11/01/2018	11/06/2018 08:00	Fe-Val Siddell	11/10/2018 01:45	Arthur Maknenko	2038090
EPA 8276	11/01/2018	11/06/2018 08:00	Fe-Val Siddell	11/14/2018 18:48	Dinesh Mishra	2038090
EPA 8321B	11/01/2018	11/02/2018 09:30	Rebecca Ware	11/02/2018 10:18	Rebecca Ware	2038088
	11/01/2018	11/02/2018 12:30	Rebecca Ware	11/02/2018 13:19	Rebecca Ware	2038088
	11/01/2018	11/02/2018 12:30	Rebecca Ware	11/02/2018 13:34	Rebecca Ware	2038089
	11/01/2018	11/02/2018 12:30	Rebecca Ware	11/03/2018 05:03	Mohammad Ghaffari	2038088
	11/01/2018	11/02/2018 12:30	Rebecca Ware	11/03/2018 05:18	Mohammad Ghaffari	2038089
	11/01/2018	11/06/2018 10:00	Hoor Shaik	11/06/2018 18:38	Juyoung Kim	2038087
	11/01/2018	11/06/2018 10:00	Hoor Shaik	11/06/2018 23:15	Juyoung Kim	2038088
	11/01/2018	11/06/2018 10:00	Hoor Shaik	11/07/2018 03:52	Juyoung Kim	2038089
	11/01/2018	11/06/2018 10:00	Hoor Shaik	11/07/2018 11:22	Juyoung Kim	2038088
	11/01/2018	11/06/2018 10:00	Hoor Shaik	11/08/2018 10:59	Juyoung Kim	2038089
SM 2120 B	11/01/2018			11/01/2018 15:15	Chelsea Hernandez	2038072

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2120 B	11/01/2018			11/01/2018 15:16	Chelsea Hernandez	2038075
	11/01/2018			11/01/2018 15:17	Chelsea Hernandez	2038078
SM 2320 B-97	11/01/2018			11/07/2018 06:41	Dale L. Simmons	2038072
	11/01/2018			11/07/2018 06:55	Dale L. Simmons	2038078
	11/01/2018			11/07/2018 07:40	Dale L. Simmons	2038075
SM 2540 C-97	11/01/2018			11/06/2018 15:10	Yijie Li	2038072, 2038075, 2038078
SM 2540 D-97	11/01/2018			11/06/2018 15:10	Yijie Li	2038072, 2038075, 2038078
SM 4500 F-C-97	11/01/2018			11/07/2018 06:41	Dale L. Simmons	2038072
	11/01/2018			11/07/2018 06:55	Dale L. Simmons	2038078
	11/01/2018			11/07/2018 07:32	Dale L. Simmons	2038075
SM 5310 B-00	11/01/2018			11/06/2018 03:13	Megan Treadwell	2038073
	11/01/2018			11/06/2018 03:25	Megan Treadwell	2038076
	11/01/2018			11/06/2018 03:37	Megan Treadwell	2038079