

Chemical Analysis Report

CEN-DIST-2018-07-17-03

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

Event Description: **Site**
Request ID: **RQ-2018-07-09-46**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
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3319 Maguire Blvd., Suite 232
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Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 09-AUG-2018 13:36

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: GREENWOOD LAKE WEST LOBE @ CENTER (2986F) **Collection Date/Time: 07/16/2018 10:40**

Field ID: G2CE0112

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2007885	EPA 180.1 Rev. 2.0	Turbidity	3.5		NTU	P348730	
	EPA 300.0 Rev. 2.1	Chloride	25		mg Cl/L	P349064	
		Sulfate	5.6		mg SO4/L	P349067	
	SM 2120 B	Color (true)	30		PCU	P348608	
	SM 2320 B-97	Total Alkalinity	40	A	mg CaCO3/L	P348736	
	SM 2540 C-97	TDS	115		mg/L	P349268	
	SM 2540 D-97	TSS	4	I	mg/L	P349274	
	SM 4500 F-C-97	Fluoride	0.051	I	mg F/L	P348739	
2007888	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P348711	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P348839	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P348669	
	EPA 365.1 Rev. 2.0	Total-P	0.032		mg P/L	P348882	
	SM 5310 B-00	Organic Carbon	11		mg C/L	P348823	
2007891	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P348599	
2007907	EPA 200.7 Rev. 4.4	Calcium	16.3		mg/L	P348660	
		Iron	69	I	ug/L	P348660	
		Magnesium	2.53		mg/L	P348660	
		Potassium	2.7		mg/L	P348660	
		Sodium	17.2		mg/L	P348660	
	EPA 200.8 Rev. 5.4	Zinc	5.0	U	ug/L	P348660	
		Arsenic	0.74		ug/L	P348660	
		Cadmium	0.020	U	ug/L	P348660	
		Chromium	0.40	U	ug/L	P348660	
		Copper	1.04		ug/L	P348660	
		Lead	0.050	U	ug/L	P348660	
		Nickel	0.21	I	ug/L	P348660	
		Silver	0.010	U	ug/L	P349023	

Ref. Method and Comment:

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

SM 5310 B-00: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: GREENWOOD LAKE WEST LOBE @ 250m SW of CENTER (2986F) **Collection Date/Time: 07/16/2018 10:50**

Field ID: G2CE0136

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2007886	EPA 180.1 Rev. 2.0	Turbidity	4.7		NTU	P348730	
	EPA 300.0 Rev. 2.1	Chloride	27		mg Cl/L	P349064	
		Sulfate	5.9		mg SO4/L	P349067	
		Color (true)	30		PCU	P348608	
	SM 2320 B-97	Total Alkalinity	41		mg CaCO3/L	P348736	
	SM 2540 C-97	TDS	105		mg/L	P349268	
	SM 2540 D-97	TSS	6	I	mg/L	P349274	
	SM 4500 F-C-97	Fluoride	0.051	I	mg F/L	P348739	
2007889	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P348711	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P348839	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P348669	
	EPA 365.1 Rev. 2.0	Total-P	0.034		mg P/L	P348882	
	SM 5310 B-00	Organic Carbon	11		mg C/L	P348823	
2007892	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P348599	
2007908	EPA 200.7 Rev. 4.4	Calcium	16.1		mg/L	P348660	
		Iron	92	I	ug/L	P348660	
		Magnesium	2.44		mg/L	P348660	
		Potassium	2.7		mg/L	P348660	
		Sodium	16.8		mg/L	P348660	
	EPA 200.8 Rev. 5.4	Zinc	5.0	U	ug/L	P348660	
		Arsenic	0.72		ug/L	P348660	
		Cadmium	0.020	U	ug/L	P348660	
		Chromium	0.40	U	ug/L	P348660	
		Copper	1.09		ug/L	P348660	
		Lead	0.056	I	ug/L	P348660	
		Nickel	0.23	I	ug/L	P348660	
		Silver	0.010	U	ug/L	P349023	

Ref. Method and Comment:

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

SM 5310 B-00: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: GREENWOOD LAKE WEST LOBE @ 250m SW of CENTER (2986F) **Collection Date/Time: 07/16/2018 10:50**

Field ID: G2CE0136

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2007900	EPA 8321B	Aldicarb	0.020	U	ug/L	P348391	
		Aldicarb Sulfone	0.0020	U	ug/L	P348391	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P348391	
		Carbaryl	0.0020	U	ug/L	P348391	
		Carbofuran	0.0020	U	ug/L	P348391	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P348391	
		Methiocarb	0.0020	U	ug/L	P348391	
		Methomyl	0.0020	U	ug/L	P348391	
		Oxamyl	0.0020	U	ug/L	P348391	
		Propoxur	0.0020	UJ	ug/L	P348391	MS
2007901		2,4-D	0.024		ug/L	P348391	
		Bentazon	0.037		ug/L	P348391	
		MCP	0.0042	I	ug/L	P348391	MS
		Triclopyr**	0.0040	U	ug/L	P348391	MS
		Imidacloprid	0.014		ug/L	P348391	
		Diuron	0.0020	U	ug/L	P348391	
		Pyraclostrobin**	0.0020	U	ug/L	P348391	
		Primidone**	0.0076	I	ug/L	P348391	
		Linuron	0.0040	U	ug/L	P348391	
		Acetaminophen**	0.0080	U	ug/L	P348391	
		Fenuron	0.016	U	ug/L	P348391	
		Imazapyr**	0.012	I	ug/L	P348391	
		Carbamazepine**	0.0017		ug/L	P348391	
		Fluridone**	9.1E-04	I	ug/L	P348391	
		Hydrocodone**	8.0E-04	U	ug/L	P348391	
		Naproxen**	0.0080	U	ug/L	P348391	
		Ibuprofen**	0.020	U	ug/L	P348391	
		Sucralose**	2.4		ug/L	P348751	
		Glyphosate**	0.10	U	ug/L	P348751	
		AMPA**	0.10	U	ug/L	P348751	
		Endothal**	0.10	U	ug/L	P348751	
		Glufosinate**	0.10	U	ug/L	P348751	
		Acesulfame K**	0.41		ug/L	P348751	
2007905	EPA 8270D	Aldrin	4.1	U	ng/L	P348579	
		Alpha-BHC	2.0	U	ng/L	P348579	
		Beta-BHC	4.1	U	ng/L	P348579	MS
		Delta-BHC	4.1	U	ng/L	P348579	
		Gamma-BHC	4.1	U	ng/L	P348579	
		Carbophenothion	4.1	U	ng/L	P348579	
		Chlorothalonil	2.0	U	ng/L	P348579	MS
		Cypermethrin	20	U	ng/L	P348579	
		DDD-p,p'	3.1	U	ng/L	P348579	
		DDE-p,p'	3.1	U	ng/L	P348579	

Field ID: G2CE0136

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2007905	EPA 8270D	DDT-p,p'	3.1	U	ng/L	P348579	
		Dieldrin	4.1	U	ng/L	P348579	
		Endosulfan I	4.1	U	ng/L	P348579	
		Endosulfan II	4.1	U	ng/L	P348579	
		Endosulfan Sulfate	2.0	U	ng/L	P348579	
		Endrin	2.0	U	ng/L	P348579	
		Endrin Aldehyde	2.0	U	ng/L	P348579	
		Heptachlor	1.5	U	ng/L	P348579	
		Heptachlor Epoxide	2.0	U	ng/L	P348579	
		Methoxychlor	4.1	U	ng/L	P348579	
		Mirex	2.0	U	ng/L	P348579	
		Permethrin	10	U	ng/L	P348579	
		Trifluralin	1.0	U	ng/L	P348579	
		Alpha-Chlordane	1.0	U	ng/L	P348579	
		Gamma-Chlordane	1.0	U	ng/L	P348579	
		Endrin Ketone	2.0	U	ng/L	P348579	
		Dicofol	31	U	ng/L	P348579	
	EPA 8276	Chlordane	2.8	I	ng/L	P348579	
		Toxaphene	31	U	ng/L	P348579	
2007906	EPA 8270D	Alachlor	0.24	U	ng/L	P349016	
		Ametryn	2.1		ng/L	P349016	
		Atrazine	76		ng/L	P349016	
		Atrazine Desethyl	8.2		ng/L	P349016	
		Azinphos Methyl	2.1	U	ng/L	P349016	
		Bromacil	0.47	U	ng/L	P349016	
		Butylate	0.38	U	ng/L	P349016	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P349016	
		Chlorpyrifos Methyl	0.095	U	ng/L	P349016	
		Demeton	1.9	UJ	ng/L	P349016	MS
		Diazinon	0.12	U	ng/L	P349016	
		Disulfoton	0.47	U	ng/L	P349016	
		EPTC	1.2	U	ng/L	P349016	
		Ethion	0.14	U	ng/L	P349016	
		Ethoprop	0.095	U	ng/L	P349016	
		Fenamiphos	0.24	U	ng/L	P349016	
		Fipronil	0.41	IJ	ng/L	P349016	RPD
		Fipronil Sulfide	1.7	J	ng/L	P349016	MS, RPD
		Fipronil Sulfone	6.3	J	ng/L	P349016	RPD
		Hexazinone	0.47	UJ	ng/L	P349016	RPD
		Malathion	0.33	U	ng/L	P349016	
		Metribuzin	0.19	U	ng/L	P349016	
		Mevinphos	0.47	U	ng/L	P349016	
		Molinate	0.28	U	ng/L	P349016	
		Norflurazon	0.47	UJ	ng/L	P349016	RPD
		Pendimethalin	0.95	U	ng/L	P349016	

Field ID: G2CE0136

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2007906	EPA 8270D	Phorate	0.24	U	ng/L	P349016	
		Prometon	0.85	U	ng/L	P349016	
		Prometryn	0.19	U	ng/L	P349016	
		Simazine	0.47	UJ	ng/L	P349016	MS
		Terbufos	0.095	U	ng/L	P349016	
		Terbuthylazine	0.40	U	ng/L	P349016	
		Fonofos	0.19	U	ng/L	P349016	
		Metalaxyl	0.24	U	ng/L	P349016	
		Metolachlor	0.24	U	ng/L	P349016	
		Acetochlor	0.24	U	ng/L	P349016	
		Cyanazine	0.47	UJ	ng/L	P349016	RPD
		Parathion Ethyl	0.24	U	ng/L	P349016	
		Parathion Methyl	0.24	U	ng/L	P349016	

Ref. Method and Comment:

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

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

Sample Location: GREENWOOD LAKE WEST LOBE @ 110m N of REFLECTION PARK BOAT RAMP (2986F) **Collection Date/Time: 07/16/2018 11:03**

Field ID: G2CE0135

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2007887	EPA 180.1 Rev. 2.0	Turbidity	3.9		NTU	P348730	
	EPA 300.0 Rev. 2.1	Chloride	26		mg Cl/L	P349064	
		Sulfate	5.8		mg SO4/L	P349067	
		Color (true)	29		PCU	P348608	
	SM 2320 B-97	Total Alkalinity	41		mg CaCO3/L	P348736	
	SM 2540 C-97	TDS	105		mg/L	P349268	
	SM 2540 D-97	TSS	6	I	mg/L	P349274	
	SM 4500 F-C-97	Fluoride	0.050	I	mg F/L	P348739	
2007890	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P348996	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P348839	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P348669	
	EPA 365.1 Rev. 2.0	Total-P	0.035		mg P/L	P348882	
	SM 5310 B-00	Organic Carbon	13		mg C/L	P348929	
2007893	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P348600	
2007909	EPA 200.7 Rev. 4.4	Calcium	15.4		mg/L	P348660	
		Iron	74	I	ug/L	P348660	
		Magnesium	2.35		mg/L	P348660	
		Potassium	2.5		mg/L	P348660	
		Sodium	16.1		mg/L	P348660	
	EPA 200.8 Rev. 5.4	Zinc	5.0	U	ug/L	P348660	
		Arsenic	0.71		ug/L	P348660	
		Cadmium	0.020	U	ug/L	P348660	
		Chromium	0.40	U	ug/L	P348660	
		Copper	1.01		ug/L	P348660	
		Lead	0.050	U	ug/L	P348660	
		Nickel	0.20	U	ug/L	P348660	
		Silver	0.010	U	ug/L	P349023	

Ref. Method and Comment:

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P348730

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P348660

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: P348660

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

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P349023

Component	Result	Code	Units
Silver	0.010	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349064

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349067

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P348711

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P348996

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P348996

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P348839

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P348669

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P348882

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P348599

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P348600

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

Reference Method: EPA 8270D
Batch ID: P348579

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270D
 Batch ID: P348579

Component	Result	Code	Units
Endrin	2.0	U	ng/L
Endrin Aldehyde	2.0	U	ng/L
Endrin Ketone	2.0	U	ng/L
Gamma-BHC	4.0	U	ng/L
Gamma-Chlordane	1.0	U	ng/L
Heptachlor	1.5	U	ng/L
Heptachlor Epoxide	2.0	U	ng/L
Methoxychlor	4.0	U	ng/L
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Trifluralin	1.0	U	ng/L

Reference Method: EPA 8270D
 Batch ID: P349016

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.32	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.2	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Cyanazine	0.50	U	ng/L
Demeton	2.0	U	ng/L
Diazinon	0.12	U	ng/L
Disulfoton	0.50	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Fenamiphos	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.25	U	ng/L
Metolachlor	0.25	U	ng/L
Metribuzin	0.20	U	ng/L
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Norflurazon	0.50	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.25	U	ng/L
Pendimethalin	1.0	U	ng/L
Phorate	0.25	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270D
Batch ID: P349016

Component	Result	Code	Units
Simazine	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L

Reference Method: EPA 8276
Batch ID: P348579

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

Reference Method: EPA 8321B
Batch ID: P348391

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
3-Hydroxycarbofuran	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Aldicarb	0.020	U	ug/L
Aldicarb Sulfone	0.0020	U	ug/L
Aldicarb Sulfoxide	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Carbamazepine	4.0E-04	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	4.0E-04	U	ug/L
Hydrocodone	8.0E-04	U	ug/L
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: EPA 8321B
Batch ID: P348751

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P348751

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: SM 2120 B
Batch ID: P348608

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P348736

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

Reference Method: SM 2540 C-97
Batch ID: P349268

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P349274

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P348739

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P348823

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

Reference Method: SM 5310 B-00
Batch ID: P348929

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: P348660

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	105		P	85 - 115
Iron	108		P	85 - 115
Magnesium	107		P	85 - 115
Potassium	105		P	85 - 115
Sodium	101		P	85 - 115
Zinc	102		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P348660

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	102		P	85 - 115
Cadmium	103		P	85 - 115
Chromium	99.9		P	85 - 115
Copper	99.2		P	85 - 115
Lead	99.9		P	85 - 115
Nickel	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P349023

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Silver	101		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349064

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349067

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	108		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P348711

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P348996

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P348839

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P348839

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: P348669

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P348882

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	99.2		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P348599

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.2		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P348600

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

Reference Method: EPA 8270D
 Batch ID: P348579

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	60.7	52.7	P/P	24 - 89.0
Alpha-BHC	90.8	91.1	P/P	58 - 117
Alpha-Chlordane	85.1	80.5	P/P	56 - 115
Beta-BHC	120	117	P/P	55 - 137
Carbophenothion	89.3	77.4	P/P	37 - 145
Chlorothalonil	54.2	64.6	P/P	26 - 163
Cypermethrin	94.8	88.8	P/P	42 - 156
DDD-p,p'	98.8	94.8	P/P	59 - 129
DDE-p,p'	88.9	83.8	P/P	52 - 117
DDT-p,p'	88.5	88.9	P/P	48 - 128
Delta-BHC	101	128	P/P	59 - 158
Dicofol	85.0	86.5	P/P	19 - 124
Diieldrin	93.6	89.5	P/P	57 - 126
Endosulfan I	94.2	90.2	P/P	59 - 133
Endosulfan II	96.5	90.9	P/P	58 - 148
Endosulfan Sulfate	98.4	84.8	P/P	56 - 135
Endrin	90.6	86.9	P/P	50 - 140
Endrin Aldehyde	96.9	90.8	P/P	47 - 141
Endrin Ketone	98.3	83.2	P/P	63 - 123
Gamma-BHC	98.1	98.0	P/P	59 - 132
Gamma-Chlordane	82.3	76.9	P/P	55 - 112
Heptachlor	73.6	66.4	P/P	45 - 102

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270D

Batch ID: P348579

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Heptachlor Epoxide	89.7	84.3	P/P	61 - 116
Methoxychlor	96.6	91.9	P/P	60 - 133
Mirex	78.7	69.7	P/P	40 - 98.0
Permethrin	83.9	76.7	P/P	45 - 131
Trifluralin	84.4	84.0	P/P	38 - 179

Reference Method: EPA 8270D

Batch ID: P349016

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	81.6	87.8	P/P	74 - 119
Alachlor	89.5	92.3	P/P	75 - 118
Ametryn	88.2	93.0	P/P	59 - 137
Atrazine	105	102	P/P	73 - 120
Atrazine Desethyl	61.9	64.2	P/P	19 - 129
Azinphos Methyl	110	114	P/P	65 - 181
Bromacil	74.3	92.8	P/P	43 - 123
Butylate	57.2	52.6	P/P	28 - 85.0
Chlorpyrifos Ethyl	88.1	95.0	P/P	55 - 112
Chlorpyrifos Methyl	90.7	88.4	P/P	35 - 124
Cyanazine	76.4	77.8	P/P	26 - 262
Demeton	73.1	56.4	P/P	43 - 122
Diazinon	92.6	88.5	P/P	72 - 120
Disulfoton	79.7	63.7	P/P	45 - 137
EPTC	59.3	58.6	P/P	28 - 95.0
Ethion	96.7	104	P/P	63 - 127
Ethoprop	85.5	88.4	P/P	63 - 109
Fenamiphos	77.5	70.8	P/P	66 - 136
Fipronil	74.4	83.1	P/P	63 - 126
Fipronil Sulfide	70.3	83.7	P/P	59 - 123
Fipronil Sulfone	67.4	82.7	P/P	56 - 122
Fonofos	78.2	83.8	P/P	64 - 114
Hexazinone	109	104	P/P	49 - 144
Malathion	87.4	92.9	P/P	68 - 131
Metaxyl	81.3	82.5	P/P	57 - 126
Metolachlor	82.1	93.8	P/P	75 - 118
Metribuzin	80.7	75.7	P/P	46 - 169
Mevinphos	83.2	83.1	P/P	34 - 126
Molinate	68.6	68.4	P/P	37 - 101
Norflurazon	71.6	79.5	P/P	63 - 127
Parathion Ethyl	84.2	86.6	P/P	78 - 109
Parathion Methyl	98.8	93.8	P/P	74 - 123
Pendimethalin	93.9	89.1	P/P	51 - 130
Phorate	74.9	67.0	P/P	53 - 116
Prometon	85.1	90.6	P/P	66 - 124
Prometryn	87.7	91.5	P/P	66 - 124
Simazine	101	111	P/P	62 - 134
Terbufos	78.6	68.7	P/P	59 - 115
Terbutylazine	94.1	99.1	P/P	76 - 113

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8276

Batch ID: P348579

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	112	111	P/P	47 - 125
Toxaphene	89.2	81.9	P/P	46 - 147

Reference Method: EPA 8321B

Batch ID: P348391

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	65.0		P	40 - 150
3-Hydroxycarbofuran	97.8		P	40 - 150
Acetaminophen	100		P	30 - 150
Aldicarb	86.4		P	30 - 150
Aldicarb Sulfone	102		P	40 - 150
Aldicarb Sulfoxide	101		P	40 - 150
Bentazon	76.4		P	30 - 150
Carbamazepine	79.8		P	40 - 150
Carbaryl	68.9		P	40 - 150
Carbofuran	73.9		P	40 - 150
Diuron	75.6		P	40 - 150
Fenuron	107		P	40 - 150
Fluridone	92.9		P	40 - 150
Hydrocodone	101		P	40 - 150
Ibuprofen	59.9		P	40 - 150
Imazapyr	94.7		P	40 - 150
Imidacloprid	110		P	40 - 160
Linuron	93.2		P	40 - 150
MCPP	97.9		P	40 - 150
Methiocarb	87.9		P	40 - 150
Methomyl	103		P	40 - 150
Naproxen	75.3		P	40 - 150
Oxamyl	88.0		P	40 - 150
Primidone	114		P	40 - 150
Propoxur	66.3		P	40 - 150
Pyraclostrobin	90.1		P	40 - 150
Triclopyr	86.9		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P348751

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	78.3		P	40 - 140
AMPA	78.4		P	40 - 140
Endothall	105		P	40 - 140
Glufosinate	95.2		P	40 - 140
Glyphosate	99.3		P	40 - 140
Sucralose	92.0		P	40 - 150

Reference Method: SM 2120 B

Batch ID: P348608

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-97
Batch ID: P348736

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	98 - 107

Reference Method: SM 4500 F-C-97
Batch ID: P348739

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.6		P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P348823

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

Reference Method: SM 5310 B-00
Batch ID: P348929

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	93.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P348660

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2007909	Calcium	104		P	80 - 120
2007909	Iron	106		P	80 - 120
2007909	Magnesium	108		P	80 - 120
2007909	Potassium	100		P	80 - 120
2007909	Sodium	99.3		P	80 - 120
2007909	Zinc	107		P	80 - 120
2008233	Calcium	106		P	80 - 120
2008233	Iron	107	107	P/P	80 - 120
2008233	Magnesium	107		P	80 - 120
2008233	Potassium	103	102	P/P	80 - 120
2008233	Sodium	101		P	80 - 120
2008233	Zinc	101	102	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P348660

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2007909	Arsenic	105		P	80 - 120
2007909	Cadmium	107		P	80 - 120
2007909	Chromium	101		P	80 - 120
2007909	Copper	103		P	80 - 120
2007909	Lead	104		P	80 - 120
2007909	Nickel	103		P	80 - 120
2008233	Arsenic	102	103	P/P	80 - 120
2008233	Cadmium	104	106	P/P	80 - 120
2008233	Chromium	96.4	98.1	P/P	80 - 120
2008233	Copper	94.8	96.1	P/P	80 - 120
2008233	Lead	101	102	P/P	80 - 120
2008233	Nickel	97.5	99.5	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P349023

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2008001	Silver	99.2		P	80 - 120
2008141	Silver	103	103	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349064

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2007742	Chloride	107		P	90 - 110
2008648	Chloride	103		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349067

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2007742	Sulfate	106		P	90 - 110
2008648	Sulfate	99.5		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P348711

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2007763	Ammonia-N	100	98.6	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P348996

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2007575	Ammonia-N	101	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P348839

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2007890	Kjeldahl Nitrogen	90.4	99.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P348669

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2007888	NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P348882

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2007874	Total-P	98.0	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P348599

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2007746	O-Phosphate-P	96.0	97.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P348600

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2007893	O-Phosphate-P	95.2	93.8	P/P	90 - 110

Reference Method: EPA 8270D
Batch ID: P348579

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2008048	Aldrin	52.0	52.6	P/P	26 - 96.0
2008048	Alpha-BHC	101	96.8	P/P	51 - 123
2008048	Alpha-Chlordane	78.1	74.7	P/P	45 - 120
2008048	Beta-BHC	148	134	F/P	43 - 146
2008048	Carbophenothion	99.8	90.5	P/P	26 - 179
2008048	Chlorothalonil	7.25	9.40	F/F	10 - 215
2008048	Cypermethrin	105	91.0	P/P	35 - 169
2008048	DDD-p,p'	92.6	85.6	P/P	49 - 131
2008048	DDE-p,p'	79.4	73.5	P/P	39 - 127
2008048	DDT-p,p'	89.9	84.7	P/P	49 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P348579

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2008048	Delta-BHC	143	133	P/P	49 - 187
2008048	Dicofol	101	102	P/P	10 - 129
2008048	Dieldrin	82.3	82.4	P/P	46 - 132
2008048	Endosulfan I	92.8	86.7	P/P	57 - 130
2008048	Endosulfan II	97.7	95.8	P/P	52 - 148
2008048	Endosulfan Sulfate	101	89.3	P/P	55 - 129
2008048	Endrin	84.1	80.6	P/P	45 - 133
2008048	Endrin Aldehyde	59.1	68.1	P/P	26 - 140
2008048	Endrin Ketone	108	99.9	P/P	60 - 125
2008048	Gamma-BHC	114	125	P/P	50 - 145
2008048	Gamma-Chlordane	77.1	72.2	P/P	44 - 118
2008048	Heptachlor	67.9	60.0	P/P	35 - 106
2008048	Heptachlor Epoxide	85.0	82.6	P/P	52 - 123
2008048	Methoxychlor	101	95.5	P/P	54 - 132
2008048	Mirex	85.5	76.5	P/P	36 - 107
2008048	Permethrin	88.6	81.9	P/P	47 - 135
2008048	Trifluralin	91.5	86.4	P/P	32 - 228

Reference Method: EPA 8270D
Batch ID: P349016

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2007906	Acetochlor	86.7	93.7	P/P	67 - 125
2007906	Alachlor	89.4	101	P/P	69 - 123
2007906	Ametryn	91.7	93.6	P/P	52 - 151
2007906	Atrazine Desethyl	13.0	19.4	P/P	10 - 129
2007906	Azinphos Methyl	129	140	P/P	48 - 200
2007906	Bromacil	76.5	94.1	P/P	46 - 130
2007906	Butylate	74.5	72.5	P/P	10 - 85.0
2007906	Chlorpyrifos Ethyl	90.1	90.2	P/P	54 - 115
2007906	Chlorpyrifos Methyl	87.1	95.7	P/P	44 - 117
2007906	Cyanazine	68.5	120	P/P	10 - 262
2007906	Demeton	179	188	F/F	24 - 145
2007906	Diazinon	86.9	96.3	P/P	66 - 129
2007906	Disulfoton	87.4	93.6	P/P	45 - 139
2007906	EPTC	72.3	70.9	P/P	10 - 86.0
2007906	Ethion	101	105	P/P	59 - 133
2007906	Ethoprop	83.8	91.4	P/P	54 - 116
2007906	Fenamiphos	86.4	95.3	P/P	55 - 140
2007906	Fipronil	55.6	92.5	P/P	37 - 142
2007906	Fipronil Sulfide	13.2	75.6	F/P	37 - 130
2007906	Fonofos	82.3	86.2	P/P	55 - 118
2007906	Hexazinone	65.7	94.1	P/P	62 - 140
2007906	Malathion	97.0	107	P/P	64 - 132
2007906	Metalaxyl	76.1	88.1	P/P	55 - 129
2007906	Metolachlor	97.1	106	P/P	56 - 137
2007906	Metribuzin	94.2	107	P/P	16 - 218
2007906	Mevinphos	98.6	103	P/P	34 - 129
2007906	Molinate	80.3	87.7	P/P	16 - 99.0
2007906	Norflurazon	47.6	95.7	P/P	43 - 135
2007906	Parathion Ethyl	81.3	81.2	P/P	71 - 112
2007906	Parathion Methyl	81.0	92.7	P/P	65 - 127

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P349016

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2007906	Pendimethalin	81.1	87.3	P/P	35 - 159
2007906	Phorate	91.3	88.9	P/P	41 - 129
2007906	Prometon	101	103	P/P	56 - 140
2007906	Prometryn	73.4	89.9	P/P	65 - 130
2007906	Simazine	192	211	F/F	54 - 148
2007906	Terbufos	84.3	93.5	P/P	53 - 126
2007906	Terbuthylazine	77.4	87.9	P/P	73 - 114

Reference Method: EPA 8276
Batch ID: P348579

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2007905	Chlordane	86.2	82.9	P/P	41 - 134
2007905	Toxaphene	64.1	61.1	P/P	39 - 158

Reference Method: EPA 8321B
Batch ID: P348391

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2007900	3-Hydroxycarbofuran	64.2	69.6	P/P	40 - 150
2007900	Aldicarb	31.8	36.5	P/P	30 - 150
2007900	Aldicarb Sulfone	64.6	71.0	P/P	40 - 150
2007900	Aldicarb Sulfoxide	48.7	60.9	P/P	40 - 150
2007900	Carbaryl	40.3	41.5	P/P	40 - 150
2007900	Carbofuran	40.4	40.6	P/P	40 - 150
2007900	Methiocarb	54.9	58.7	P/P	40 - 150
2007900	Methomyl	61.6	69.8	P/P	40 - 150
2007900	Oxamyl	60.0	63.4	P/P	40 - 150
2007900	Propoxur	35.3	38.3	F/F	40 - 150
2007965	2,4-D	119	121	P/P	40 - 150
2007965	Acetaminophen	96.2	90.0	P/P	30 - 150
2007965	Bentazon	65.5	62.6	P/P	30 - 150
2007965	Carbamazepine	61.5	59.0	P/P	40 - 150
2007965	Diuron	51.8	51.4	P/P	40 - 150
2007965	Fenuron	71.2	65.1	P/P	40 - 150
2007965	Fluridone	83.5	79.3	P/P	40 - 150
2007965	Hydrocodone	69.6	64.1	P/P	40 - 150
2007965	Ibuprofen	107	100	P/P	40 - 150
2007965	Imazapyr	73.3	75.6	P/P	40 - 150
2007965	Imidacloprid	112	104	P/P	40 - 160
2007965	Linuron	78.8	76.4	P/P	40 - 150
2007965	MCPP	150	160	F/F	40 - 150
2007965	Naproxen	128	123	P/P	40 - 150
2007965	Primidone	86.4	78.7	P/P	40 - 150
2007965	Pyraclostrobin	86.4	89.4	P/P	40 - 150
2007965	Triclopyr	174	193	F/F	40 - 150

Reference Method: EPA 8321B
Batch ID: P348751

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2007901	AMPA	78.0	82.6	P/P	40 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P348751

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2007901	Glufosinate	94.6	99.1	P/P	40 - 140
2007901	Glyphosate	85.8	88.4	P/P	40 - 140
2008140	Acesulfame K	82.6	97.8	P/P	40 - 140
2008140	Endothall	99.3	79.8	P/P	40 - 140
2008140	Sucralose	81.0	81.9	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P348739

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2007885	Fluoride	97.5	96.9	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P348929

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2007890	Organic Carbon	92.6	91.3	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P348730

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2007876	Turbidity	4.86	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P348660

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2008233	Calcium	0.369	Spike	P	0 - 20
2008233	Iron	0.0186	Spike	P	0 - 20
2008233	Magnesium	0.143	Spike	P	0 - 20
2008233	Potassium	0.710	Spike	P	0 - 20
2008233	Sodium	0.220	Spike	P	0 - 20
2008233	Zinc	0.966	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P348660

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2008233	Arsenic	1.35	Spike	P	0 - 20
2008233	Cadmium	1.86	Spike	P	0 - 20
2008233	Chromium	1.66	Spike	P	0 - 20
2008233	Copper	1.31	Spike	P	0 - 20
2008233	Lead	1.16	Spike	P	0 - 20
2008233	Nickel	2.08	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P349023

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2008141	Silver	0.366	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349064

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2007742	Chloride	5.53	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349067

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2007742	Sulfate	6.36	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P348711

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2007763	Ammonia-N	1.59	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P348996

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2007575	Ammonia-N	0.591	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P348839

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2007890	Kjeldahl Nitrogen	4.73	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P348669

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2007888	NO2NO3-N	0.491	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P348882

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2007874	Total-P	1.98	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P348599

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2007746	O-Phosphate-P	1.24	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P348600

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2007893	O-Phosphate-P	1.48	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P348579

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2008048	Aldrin	1.27	Spike	P	0 - 30
2008048	Alpha-BHC	4.10	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D

Batch ID: P348579

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2008048	Alpha-Chlordane	4.48	Spike	P	0 - 30
2008048	Beta-BHC	9.46	Spike	P	0 - 30
2008048	Carbophenothion	9.76	Spike	P	0 - 30
2008048	Chlorothalonil	25.8	Spike	P	0 - 30
2008048	Cypermethrin	14.5	Spike	P	0 - 30
2008048	DDD-p,p'	7.84	Spike	P	0 - 30
2008048	DDE-p,p'	7.65	Spike	P	0 - 30
2008048	DDT-p,p'	5.91	Spike	P	0 - 30
2008048	Delta-BHC	7.50	Spike	P	0 - 30
2008048	Dicofol	0.508	Spike	P	0 - 30
2008048	Dieldrin	0.190	Spike	P	0 - 30
2008048	Endosulfan I	6.83	Spike	P	0 - 30
2008048	Endosulfan II	2.03	Spike	P	0 - 30
2008048	Endosulfan Sulfate	11.9	Spike	P	0 - 30
2008048	Endrin	4.25	Spike	P	0 - 30
2008048	Endrin Aldehyde	14.2	Spike	P	0 - 30
2008048	Endrin Ketone	7.70	Spike	P	0 - 30
2008048	Gamma-BHC	9.29	Spike	P	0 - 30
2008048	Gamma-Chlordane	6.59	Spike	P	0 - 30
2008048	Heptachlor	12.3	Spike	P	0 - 30
2008048	Heptachlor Epoxide	2.88	Spike	P	0 - 30
2008048	Methoxychlor	5.16	Spike	P	0 - 30
2008048	Mirex	11.0	Spike	P	0 - 30
2008048	Permethrin	7.87	Spike	P	0 - 30
2008048	Trifluralin	5.78	Spike	P	0 - 30
LFB	Aldrin	14.1	LCS	P	0 - 30
LFB	Alpha-BHC	0.310	LCS	P	0 - 30
LFB	Alpha-Chlordane	5.52	LCS	P	0 - 30
LFB	Beta-BHC	2.79	LCS	P	0 - 30
LFB	Carbophenothion	14.3	LCS	P	0 - 30
LFB	Chlorothalonil	17.5	LCS	P	0 - 30
LFB	Cypermethrin	6.55	LCS	P	0 - 30
LFB	DDD-p,p'	4.12	LCS	P	0 - 30
LFB	DDE-p,p'	5.83	LCS	P	0 - 30
LFB	DDT-p,p'	0.503	LCS	P	0 - 30
LFB	Delta-BHC	22.9	LCS	P	0 - 30
LFB	Dicofol	1.74	LCS	P	0 - 30
LFB	Dieldrin	4.54	LCS	P	0 - 30
LFB	Endosulfan I	4.30	LCS	P	0 - 30
LFB	Endosulfan II	5.98	LCS	P	0 - 30
LFB	Endosulfan Sulfate	14.9	LCS	P	0 - 30
LFB	Endrin	4.17	LCS	P	0 - 30
LFB	Endrin Aldehyde	6.44	LCS	P	0 - 30
LFB	Endrin Ketone	16.6	LCS	P	0 - 30
LFB	Gamma-BHC	0.0844	LCS	P	0 - 30
LFB	Gamma-Chlordane	6.74	LCS	P	0 - 30
LFB	Heptachlor	10.3	LCS	P	0 - 30
LFB	Heptachlor Epoxide	6.28	LCS	P	0 - 30
LFB	Methoxychlor	4.90	LCS	P	0 - 30
LFB	Mirex	12.1	LCS	P	0 - 30
LFB	Permethrin	9.06	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D

Batch ID: P348579

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Trifluralin	0.408	LCS	P	0 - 30

Reference Method: EPA 8270D

Batch ID: P349016

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2007906	Acetochlor	7.72	Spike	P	0 - 30
2007906	Alachlor	12.5	Spike	P	0 - 30
2007906	Ametryn	1.25	Spike	P	0 - 30
2007906	Atrazine	4.27	Spike	P	0 - 30
2007906	Atrazine Desethyl	9.10	Spike	P	0 - 30
2007906	Azinphos Methyl	8.19	Spike	P	0 - 30
2007906	Bromacil	20.6	Spike	P	0 - 30
2007906	Butylate	2.69	Spike	P	0 - 30
2007906	Chlorpyrifos Ethyl	0.166	Spike	P	0 - 30
2007906	Chlorpyrifos Methyl	9.44	Spike	P	0 - 30
2007906	Cyanazine	54.6	Spike	F	0 - 30
2007906	Demeton	5.00	Spike	P	0 - 30
2007906	Diazinon	10.3	Spike	P	0 - 30
2007906	Disulfoton	6.92	Spike	P	0 - 30
2007906	EPTC	1.96	Spike	P	0 - 30
2007906	Ethion	3.05	Spike	P	0 - 30
2007906	Ethoprop	8.65	Spike	P	0 - 30
2007906	Fenamiphos	9.83	Spike	P	0 - 30
2007906	Fipronil	43.4	Spike	F	0 - 30
2007906	Fipronil Sulfide	47.0	Spike	F	0 - 30
2007906	Fipronil Sulfone	54.6	Spike	F	0 - 30
2007906	Fonofos	4.66	Spike	P	0 - 30
2007906	Hexazinone	35.6	Spike	F	0 - 30
2007906	Malathion	10.1	Spike	P	0 - 30
2007906	Metalaxyl	14.6	Spike	P	0 - 30
2007906	Metolachlor	8.90	Spike	P	0 - 30
2007906	Metribuzin	12.8	Spike	P	0 - 30
2007906	Mevinphos	4.05	Spike	P	0 - 30
2007906	Molinate	8.86	Spike	P	0 - 30
2007906	Norflurazon	67.2	Spike	F	0 - 30
2007906	Parathion Ethyl	0.109	Spike	P	0 - 30
2007906	Parathion Methyl	13.4	Spike	P	0 - 30
2007906	Pendimethalin	7.36	Spike	P	0 - 30
2007906	Phorate	2.67	Spike	P	0 - 30
2007906	Prometon	1.74	Spike	P	0 - 30
2007906	Prometryn	20.2	Spike	P	0 - 30
2007906	Simazine	9.10	Spike	P	0 - 30
2007906	Terbufos	10.4	Spike	P	0 - 30
2007906	Terbutylazine	12.7	Spike	P	0 - 30
LFB	Acetochlor	7.28	LCS	P	0 - 30
LFB	Alachlor	3.08	LCS	P	0 - 30
LFB	Ametryn	5.33	LCS	P	0 - 30
LFB	Atrazine	2.58	LCS	P	0 - 30
LFB	Atrazine Desethyl	3.63	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D

Batch ID: P349016

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Azinphos Methyl	3.73	LCS	P	0 - 30
LFB	Bromacil	22.1	LCS	P	0 - 30
LFB	Butylate	8.42	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	7.47	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	2.57	LCS	P	0 - 30
LFB	Cyanazine	1.90	LCS	P	0 - 30
LFB	Demeton	25.8	LCS	P	0 - 30
LFB	Diazinon	4.56	LCS	P	0 - 30
LFB	Disulfoton	22.2	LCS	P	0 - 30
LFB	EPTC	1.16	LCS	P	0 - 30
LFB	Ethion	6.96	LCS	P	0 - 30
LFB	Ethoprop	3.28	LCS	P	0 - 30
LFB	Fenamiphos	8.98	LCS	P	0 - 30
LFB	Fipronil	11.1	LCS	P	0 - 30
LFB	Fipronil Sulfide	17.4	LCS	P	0 - 30
LFB	Fipronil Sulfone	20.3	LCS	P	0 - 30
LFB	Fonofos	7.00	LCS	P	0 - 30
LFB	Hexazinone	4.18	LCS	P	0 - 30
LFB	Malathion	6.07	LCS	P	0 - 30
LFB	Metalaxyl	1.47	LCS	P	0 - 30
LFB	Metolachlor	13.3	LCS	P	0 - 30
LFB	Metribuzin	6.34	LCS	P	0 - 30
LFB	Mevinphos	0.111	LCS	P	0 - 30
LFB	Molinate	0.372	LCS	P	0 - 30
LFB	Norflurazon	10.5	LCS	P	0 - 30
LFB	Parathion Ethyl	2.86	LCS	P	0 - 30
LFB	Parathion Methyl	5.22	LCS	P	0 - 30
LFB	Pendimethalin	5.28	LCS	P	0 - 30
LFB	Phorate	11.2	LCS	P	0 - 30
LFB	Prometon	6.25	LCS	P	0 - 30
LFB	Prometryn	4.29	LCS	P	0 - 30
LFB	Simazine	9.58	LCS	P	0 - 30
LFB	Terbufos	13.5	LCS	P	0 - 30
LFB	Terbutylazine	5.18	LCS	P	0 - 30

Reference Method: EPA 8276

Batch ID: P348579

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2007905	Chlordane	3.64	Spike	P	0 - 30
2007905	Toxaphene	4.70	Spike	P	0 - 30
LFB	Chlordane	1.35	LCS	P	0 - 30
LFB	Toxaphene	8.51	LCS	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P348391

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2007900	3-Hydroxycarbofuran	8.06	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8321B

Batch ID: P348391

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2007900	Aldicarb	13.7	Spike	P	0 - 30
2007900	Aldicarb Sulfone	9.41	Spike	P	0 - 30
2007900	Aldicarb Sulfoxide	22.2	Spike	P	0 - 30
2007900	Carbaryl	2.82	Spike	P	0 - 30
2007900	Carbofuran	0.555	Spike	P	0 - 30
2007900	Methiocarb	6.77	Spike	P	0 - 30
2007900	Methomyl	12.4	Spike	P	0 - 30
2007900	Oxamyl	5.47	Spike	P	0 - 30
2007900	Propoxur	8.01	Spike	P	0 - 30
2007965	2,4-D	1.56	Spike	P	0 - 30
2007965	Acetaminophen	6.71	Spike	P	0 - 30
2007965	Bentazon	2.71	Spike	P	0 - 30
2007965	Carbamazepine	4.17	Spike	P	0 - 30
2007965	Diuron	0.777	Spike	P	0 - 30
2007965	Fenuron	8.95	Spike	P	0 - 30
2007965	Fluridone	5.04	Spike	P	0 - 30
2007965	Hydrocodone	8.17	Spike	P	0 - 30
2007965	Ibuprofen	6.40	Spike	P	0 - 30
2007965	Imazapyr	0.964	Spike	P	0 - 30
2007965	Imidacloprid	5.92	Spike	P	0 - 30
2007965	Linuron	3.04	Spike	P	0 - 30
2007965	MCPP	6.23	Spike	P	0 - 30
2007965	Naproxen	4.18	Spike	P	0 - 30
2007965	Primidone	9.34	Spike	P	0 - 30
2007965	Pyraclostrobin	3.42	Spike	P	0 - 30
2007965	Triclopyr	9.96	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P348751

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2007901	AMPA	5.66	Spike	P	0 - 30
2007901	Glufosinate	4.64	Spike	P	0 - 30
2007901	Glyphosate	2.96	Spike	P	0 - 30
2008140	Acesulfame K	16.8	Spike	P	0 - 30
2008140	Endothall	21.8	Spike	P	0 - 30
2008140	Sucralose	1.05	Spike	P	0 - 30

Reference Method: SM 2120 B

Batch ID: P348608

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2007831	Color (true)	0.625	Sample	P	0 - 20

Reference Method: SM 2320 B-97

Batch ID: P348736

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

Reference Method: SM 2320 B-97
 Batch ID: P348736

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2007885	Total Alkalinity	0.368	Sample	P	0 - 1.6

Reference Method: SM 2540 C-97
 Batch ID: P349268

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2007831	TDS	5.30	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
 Batch ID: P348739

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2007885	Fluoride	0.516	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
 Batch ID: P348823

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2007729	Organic Carbon	0.278	Spike	P	0 - 20

Reference Method: SM 5310 B-00
 Batch ID: P348929

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2007890	Organic Carbon	0.839	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: 2007900
Field Sample ID: G2CE0136

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	44.3	P	30 - 160

Lab Sample ID: 2007901
Field Sample ID: G2CE0136

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	103	P	30 - 160
EPA 8321B	Acetaminophen-d4	69.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	47.5	P	30 - 160
EPA 8321B	Diuron-d6	44.0	P	30 - 160
EPA 8321B	Endothall-d6	70.4	P	50 - 160
EPA 8321B	Glyphosate 13C 15N	92.4	P	40 - 160
EPA 8321B	Ibuprofen-d3	97.1	P	40 - 160
EPA 8321B	Primidone-d5	73.2	P	30 - 160
EPA 8321B	Sucralose-d6	107	P	40 - 160

Lab Sample ID: 2007905
Field Sample ID: G2CE0136

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	90.1	P	37 - 117
EPA 8270D	Tetrachloro-m-xylene	56.8	P	34 - 101
EPA 8276	Decachlorobiphenyl	58.5	P	31 - 108
EPA 8276	PCNB	90.1	P	62 - 142

Lab Sample ID: 2007906
Field Sample ID: G2CE0136

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	91.0	P	71 - 126
EPA 8270D	Terbufos-d10	86.2	P	59 - 149

Quality Assurance Report

Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A85281

Included Lab Sample IDs: 2007891, 2007892, 2007893

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.2	97.3	P/P	90 - 110
O-Phosphate-P	98.7	98.5	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A85283

Included Lab Sample IDs: 2007885, 2007886, 2007887

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A85308

Included Lab Sample IDs: 2007888, 2007889, 2007890

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A85320

Included Lab Sample IDs: 2007888, 2007889

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A85325

Included Lab Sample IDs: 2007885, 2007886, 2007887

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	97.5	98.0	P/P	95 - 105

Reference Method: SM 2320 B-97

Run ID: A85328

Included Lab Sample IDs: 2007885, 2007886, 2007887

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	102	99.8	P/P	90 - 110
Total Alkalinity	99.8	104	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A85328

Included Lab Sample IDs: 2007885, 2007886, 2007887

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A85355

Included Lab Sample IDs: 2007907, 2007908, 2007909

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	102	104	P/P	90 - 110
Calcium	104	102	P/P	90 - 110
Iron	104	104	P/P	90 - 110
Iron	104	104	P/P	90 - 110
Magnesium	105	105	P/P	90 - 110
Magnesium	105	105	P/P	90 - 110
Potassium	100	101	P/P	90 - 110
Potassium	101	100	P/P	90 - 110
Sodium	100	101	P/P	90 - 110
Sodium	99.1	100	P/P	90 - 110
Zinc	102	102	P/P	90 - 110
Zinc	102	105	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A85362

Included Lab Sample IDs: 2007888, 2007889

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.0	96.2	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A85391

Included Lab Sample IDs: 2007901

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	98.2	101	P/P	60 - 150
Glufosinate	116	108	P/P	60 - 150
Glyphosate	110	99.5	P/P	60 - 150

Reference Method: SM 5310 B-00

Run ID: A85392

Included Lab Sample IDs: 2007890

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.8	96.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A85393

Included Lab Sample IDs: 2007901

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	101	95.0	P/P	60 - 150

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A85394

Included Lab Sample IDs: 2007907, 2007908, 2007909

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	100	102	P/P	90 - 110
Cadmium	101	102	P/P	90 - 110
Chromium	97.3	98.8	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A85394

Included Lab Sample IDs: 2007907, 2007908, 2007909

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Copper	98.7	100	P/P	90 - 110
Lead	98.0	98.9	P/P	90 - 110
Nickel	99.1	101	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A85396

Included Lab Sample IDs: 2007901

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	120	118	P/P	60 - 160
Endothall	93.0	114	P/P	60 - 160

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A85405

Included Lab Sample IDs: 2007888, 2007889, 2007890

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.6	92.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A85408

Included Lab Sample IDs: 2007888, 2007889, 2007890

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	99.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A85415

Included Lab Sample IDs: 2007890

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A85417

Included Lab Sample IDs: 2007885, 2007886, 2007887

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

Reference Method: EPA 8270D

Run ID: A85438

Included Lab Sample IDs: 2007905

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	97.5		P	80 - 120
Alpha-BHC	103		P	80 - 120
Alpha-Chlordane	96.0		P	80 - 120
Beta-BHC	119		P	80 - 120
Carbophenothion	85.6		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D
 Run ID: A85438
 Included Lab Sample IDs: 2007905

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlorothalonil	85.7		P	80 - 120
Cypermethrin	97.6		P	80 - 120
DDD-p,p'	97.9		P	80 - 120
DDE-p,p'	99.0		P	80 - 120
DDT-p,p'	103		P	80 - 120
Delta-BHC	97.2		P	80 - 120
Dicofol	108		P	80 - 120
Dieldrin	95.6		P	80 - 120
Endosulfan I	95.0		P	80 - 120
Endosulfan II	86.9		P	80 - 120
Endosulfan Sulfate	94.1		P	80 - 120
Endrin	95.4		P	80 - 120
Endrin Aldehyde	90.1		P	80 - 120
Endrin Ketone	95.9		P	80 - 120
Gamma-BHC	104		P	80 - 120
Gamma-Chlordane	94.5		P	80 - 120
Heptachlor	97.4		P	80 - 120
Heptachlor Epoxide	97.6		P	80 - 120
Methoxychlor	99.3		P	80 - 120
Mirex	102		P	80 - 120
Permethrin	95.3		P	80 - 120
Trifluralin	101		P	80 - 120

Reference Method: EPA 8321B
 Run ID: A85482
 Included Lab Sample IDs: 2007900

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	110	112	P/P	60 - 150
Aldicarb	99.9	108	P/P	60 - 150
Aldicarb Sulfone	104	106	P/P	50 - 150
Aldicarb Sulfoxide	105	109	P/P	50 - 150
Carbaryl	96.0	91.3	P/P	60 - 150
Carbofuran	109	111	P/P	50 - 150
Methiocarb	99.7	99.1	P/P	50 - 150
Methomyl	104	105	P/P	50 - 150
Oxamyl	108	104	P/P	50 - 150
Propoxur	107	108	P/P	50 - 150

Reference Method: EPA 8276
 Run ID: A85520
 Included Lab Sample IDs: 2007905

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	98.5		P	80 - 120
Toxaphene	98.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A85557

Included Lab Sample IDs: 2007907, 2007908, 2007909

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Silver	101	99.7	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A85612

Included Lab Sample IDs: 2007901

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	107	111	P/P	50 - 150
Bentazon	127	146	P/P	50 - 150
Ibuprofen	123	97.7	P/P	50 - 150
MCPD	120	113	P/P	50 - 150
Naproxen	111	122	P/P	60 - 150
Triclopyr	118	116	P/P	50 - 160

Reference Method: EPA 8321B

Run ID: A85626

Included Lab Sample IDs: 2007901

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetaminophen	109	105	P/P	60 - 150
Carbamazepine	108	109	P/P	60 - 150
Diuron	95.7	94.2	P/P	60 - 150
Fenuron	106	103	P/P	60 - 150
Fluridone	109	109	P/P	60 - 160
Hydrocodone	109	105	P/P	60 - 150
Imazapyr	92.4	96.0	P/P	50 - 150
Imidacloprid	104	105	P/P	60 - 150
Linuron	104	110	P/P	60 - 150
Primidone	105	113	P/P	60 - 150
Pyraclostrobin	114	106	P/P	60 - 150

Reference Method: EPA 8270D

Run ID: A85665

Included Lab Sample IDs: 2007906

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	95.0		P	80 - 120
Alachlor	96.5		P	80 - 120
Ametryn	95.5		P	80 - 120
Atrazine Desethyl	108		P	80 - 120
Azinphos Methyl	113		P	80 - 120
Bromacil	102		P	80 - 120
Butylate	99.4		P	80 - 120
Chlorpyrifos Ethyl	83.0		P	80 - 120
Chlorpyrifos Methyl	85.3		P	80 - 120
Cyanazine	94.5		P	80 - 120
Demeton	96.8		P	80 - 120
Diazinon	92.0		P	80 - 120
Disulfoton	84.1		P	80 - 120
EPTC	101		P	80 - 120
Ethion	90.0		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D
 Run ID: A85665
 Included Lab Sample IDs: 2007906

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ethoprop	99.3		P	80 - 120
Fenamiphos	88.8		P	80 - 120
Fipronil	91.9		P	80 - 120
Fipronil Sulfide	82.5		P	80 - 120
Fipronil Sulfone	88.3		P	80 - 120
Fonofos	88.8		P	80 - 120
Hexazinone	97.1		P	80 - 120
Malathion	84.5		P	80 - 120
Metalaxyl	98.2		P	80 - 120
Metolachlor	95.3		P	80 - 120
Metribuzin	91.2		P	80 - 120
Mevinphos	102		P	80 - 120
Molinate	104		P	80 - 120
Norflurazon	91.4		P	80 - 120
Parathion Ethyl	93.6		P	80 - 120
Parathion Methyl	90.3		P	80 - 120
Pendimethalin	83.2		P	80 - 120
Phorate	95.1		P	80 - 120
Prometon	96.2		P	80 - 120
Prometryn	90.8		P	80 - 120
Simazine	102		P	80 - 120
Terbufos	83.6		P	80 - 120
Terbuthylazine	94.0		P	80 - 120

Reference Method: EPA 8270D
 Run ID: A85697
 Included Lab Sample IDs: 2007906

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	95.4		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		LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity						4.86	
EPA 200.7 Rev. 4.4	Calcium	105		104	106			0.369
	Iron	108		106	107	107		0.0186
	Magnesium	107		108	107			0.143
	Potassium	105		100	103	102		0.710
	Sodium	101		99.3	101			0.220
	Zinc	102		107	101	102		0.966
EPA 200.8 Rev. 5.4	Arsenic	102		105	102	103		1.35
	Cadmium	103		107	104	106		1.86
	Chromium	99.9		101	96.4	98.1		1.66
	Copper	99.2		103	94.8	96.1		1.31
	Lead	99.9		104	101	102		1.16
	Nickel	101		103	97.5	99.5		2.08
	Silver	101		99.2	103	103		0.366
EPA 300.0 Rev. 2.1	Chloride	101		107	103		5.53	
	Sulfate	108		106	99.5		6.36	
EPA 350.1 Rev. 2.0	Ammonia-N	102		100	98.6			1.59
	Ammonia-N	103		101	102			0.591
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103		90.4	99.0			4.73
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	101		102	102			0.491
EPA 365.1 Rev. 2.0	Total-P	99.2		98.0	100			1.98
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.2		96.0	97.2			1.24
	O-Phosphate-P	97.1		95.2	93.8			1.48
EPA 8270D	Acetochlor	81.6	87.8	93.7	86.7	7.28		7.72
	Alachlor	89.5	92.3	89.4	101	3.08		12.5
	Aldrin	60.7	52.7	52.0	52.6	14.1		1.27
	Alpha-BHC	90.8	91.1	101	96.8	0.310		4.10
	Alpha-Chlordane	85.1	80.5	78.1	74.7	5.52		4.48
	Ametryn	88.2	93.0	91.7	93.6	5.33		1.25
	Atrazine	105	102			2.58		4.27
	Atrazine Desethyl	61.9	64.2	13.0	19.4	3.63		9.10
	Azinphos Methyl	110	114	129	140	3.73		8.19
	Beta-BHC	120	117	148	134	2.79		9.46
	Bromacil	74.3	92.8	76.5	94.1	22.1		20.6
	Butylate	57.2	52.6	72.5	74.5	8.42		2.69
	Carbophenothion	89.3	77.4	99.8	90.5	14.3		9.76
	Chlorothalonil	54.2	64.6	7.25	9.40	17.5		25.8
	Chlorpyrifos Ethyl	88.1	95.0	90.2	90.1	7.47		0.166
	Chlorpyrifos Methyl	90.7	88.4	95.7	87.1	2.57		9.44
	Cyanazine	76.4	77.8	68.5	120	1.90		54.6
	Cypermethrin	94.8	88.8	105	91.0	6.55		14.5
	DDD-p,p'	98.8	94.8	92.6	85.6	4.12		7.84
	DDE-p,p'	88.9	83.8	79.4	73.5	5.83		7.65
	DDT-p,p'	88.5	88.9	89.9	84.7	0.503		5.91
	Delta-BHC	101	128	143	133	22.9		7.50
	Demeton	73.1	56.4	179	188	25.8		5.00
	Diazinon	92.6	88.5	86.9	96.3	4.56		10.3
	Dicofol	85.0	86.5	101	102	1.74		0.508
	Dieldrin	93.6	89.5	82.3	82.4	4.54		0.190
	Disulfoton	79.7	63.7	87.4	93.6	22.2		6.92
	Endosulfan I	94.2	90.2	92.8	86.7	4.30		6.83
	Endosulfan II	96.5	90.9	97.7	95.8	5.98		2.03
	Endosulfan Sulfate	98.4	84.8	101	89.3	14.9		11.9
	Endrin	90.6	86.9	84.1	80.6	4.17		4.25

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Endrin Aldehyde	96.9	90.8	59.1	68.1	6.44	14.2
	Endrin Ketone	98.3	83.2	108	99.9	16.6	7.70
	EPTC	59.3	58.6	72.3	70.9	1.16	1.96
	Ethion	96.7	104	101	105	6.96	3.05
	Ethoprop	85.5	88.4	83.8	91.4	3.28	8.65
	Fenamiphos	77.5	70.8	86.4	95.3	8.98	9.83
	Fipronil	74.4	83.1	55.6	92.5	11.1	43.4
	Fipronil Sulfide	70.3	83.7	13.2	75.6	17.4	47.0
	Fipronil Sulfone	67.4	82.7			20.3	54.6
	Fonofos	78.2	83.8	82.3	86.2	7.00	4.66
	Gamma-BHC	98.1	98.0	114	125	0.0844	9.29
	Gamma-Chlordane	82.3	76.9	77.1	72.2	6.74	6.59
	Heptachlor	73.6	66.4	67.9	60.0	10.3	12.3
	Heptachlor Epoxide	89.7	84.3	85.0	82.6	6.28	2.88
	Hexazinone	109	104	65.7	94.1	4.18	35.6
	Malathion	87.4	92.9	97.0	107	6.07	10.1
	Metalaxyl	81.3	82.5	76.1	88.1	1.47	14.6
	Methoxychlor	96.6	91.9	101	95.5	4.90	5.16
	Metolachlor	82.1	93.8	97.1	106	13.3	8.90
	Metribuzin	80.7	75.7	94.2	107	6.34	12.8
	Mevinphos	83.2	83.1	98.6	103	0.111	4.05
	Mirex	78.7	69.7	85.5	76.5	12.1	11.0
	Molinate	68.6	68.4	80.3	87.7	0.372	8.86
	Norflurazon	71.6	79.5	47.6	95.7	10.5	67.2
	Parathion Ethyl	84.2	86.6	81.3	81.2	2.86	0.109
	Parathion Methyl	98.8	93.8	81.0	92.7	5.22	13.4
	Pendimethalin	93.9	89.1	81.1	87.3	5.28	7.36
	Permethrin	83.9	76.7	88.6	81.9	9.06	7.87
	Phorate	74.9	67.0	91.3	88.9	11.2	2.67
	Prometon	85.1	90.6	101	103	6.25	1.74
	Prometryn	87.7	91.5	73.4	89.9	4.29	20.2
	Simazine	101	111	192	211	9.58	9.10
	Terbufos	78.6	68.7	84.3	93.5	13.5	10.4
	Terbutylazine	94.1	99.1	77.4	87.9	5.18	12.7
	Trifluralin	84.4	84.0	91.5	86.4	0.408	5.78
EPA 8276	Chlordane	112	111	86.2	82.9	1.35	3.64
	Toxaphene	89.2	81.9	64.1	61.1	8.51	4.70
EPA 8321B	2,4-D	65.0		119	121		1.56
	3-Hydroxycarbofuran	97.8		64.2	69.6		8.06
	Acesulfame K	78.3		82.6	97.8		16.8
	Acetaminophen	100		96.2	90.0		6.71
	Aldicarb	86.4		31.8	36.5		13.7
	Aldicarb Sulfone	102		64.6	71.0		9.41
	Aldicarb Sulfoxide	101		48.7	60.9		22.2
	AMPA	78.4		78.0	82.6		5.66
	Bentazon	76.4		65.5	62.6		2.71
	Carbamazepine	79.8		61.5	59.0		4.17
	Carbaryl	68.9		40.3	41.5		2.82
	Carbofuran	73.9		40.4	40.6		0.555
	Diuron	75.6		51.8	51.4		0.777
	Endothall	105		99.3	79.8		21.8
	Fenuron	107		71.2	65.1		8.95
	Fluridone	92.9		83.5	79.3		5.04
	Glufosinate	95.2		94.6	99.1		4.64

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Glyphosate	99.3	85.8	88.4		2.96
	Hydrocodone	101	69.6	64.1		8.17
	Ibuprofen	59.9	107	100		6.40
	Imazapyr	94.7	73.3	75.6		0.964
	Imidacloprid	110	112	104		5.92
	Linuron	93.2	78.8	76.4		3.04
	MCP	97.9	150	160		6.23
	Methiocarb	87.9	54.9	58.7		6.77
	Methomyl	103	61.6	69.8		12.4
	Naproxen	75.3	128	123		4.18
	Oxamyl	88.0	60.0	63.4		5.47
	Primidone	114	86.4	78.7		9.34
	Propoxur	66.3	35.3	38.3		8.01
	Pyraclonitrobin	90.1	86.4	89.4		3.42
	Sucralose	92.0	81.0	81.9		1.05
	Triclopyr	86.9	174	193		9.96
SM 2120 B	Color (true)	100			0.625	
SM 2320 B-97	Total Alkalinity	102			0.368	
SM 2540 C-97	TDS				5.30	
SM 4500 F-C-97	Fluoride	97.6	97.5	96.9		0.516
SM 5310 B-00	Organic Carbon	97.4				0.278
	Organic Carbon	93.2	92.6	91.3		0.839

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2007885, 2007886, 2007887
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2007907, 2007908, 2007909
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2007907, 2007908, 2007909
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2007885, 2007886, 2007887
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2007885, 2007886, 2007887
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2007888, 2007889, 2007890
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2007888, 2007889, 2007890
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2007888, 2007889, 2007890
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2007888, 2007889, 2007890
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2007891, 2007892, 2007893
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	2007905
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	2007906
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2007905
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	2007900
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2007901
SM 2120 B / E31780	True Color measured at 450 nm	2007885, 2007886, 2007887
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	2007885, 2007886, 2007887

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2007885, 2007886, 2007887
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2007885, 2007886, 2007887
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2007885, 2007886, 2007887
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2007888, 2007889, 2007890

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	07/17/2018			07/17/2018 16:55	Blanca Fach	2007885, 2007886, 2007887
EPA 200.7 Rev. 4.4	07/17/2018	07/18/2018 14:50	Elliott D. Healy	07/19/2018 14:06	Betina Topolski	2007907
	07/17/2018	07/18/2018 14:50	Elliott D. Healy	07/19/2018 14:13	Betina Topolski	2007908
	07/17/2018	07/18/2018 14:50	Elliott D. Healy	07/19/2018 14:43	Betina Topolski	2007909
EPA 200.8 Rev. 5.4	07/17/2018	07/18/2018 14:50	Elliott D. Healy	07/20/2018 16:50	Allison Taylor	2007907
	07/17/2018	07/18/2018 14:50	Elliott D. Healy	07/20/2018 16:59	Allison Taylor	2007908
	07/17/2018	07/18/2018 14:50	Elliott D. Healy	07/20/2018 17:09	Allison Taylor	2007909
	07/17/2018	07/24/2018 14:10	Elliott D. Healy	07/30/2018 12:18	Robert K Palmer	2007907
	07/17/2018	07/24/2018 14:10	Elliott D. Healy	07/30/2018 12:24	Robert K Palmer	2007908
	07/17/2018	07/24/2018 14:10	Elliott D. Healy	07/30/2018 12:29	Robert K Palmer	2007909
EPA 300.0 Rev. 2.1	07/17/2018			07/24/2018 04:20	Lipi Saha	2007885
	07/17/2018			07/24/2018 04:32	Lipi Saha	2007886
	07/17/2018			07/24/2018 04:44	Lipi Saha	2007887
EPA 350.1 Rev. 2.0	07/17/2018			07/18/2018 15:11	Ping Hua	2007888
	07/17/2018			07/18/2018 15:13	Ping Hua	2007889
	07/17/2018			07/23/2018 12:00	Ping Hua	2007890
EPA 351.2 Rev. 2.0	07/17/2018	07/20/2018 11:00	Adrian Shelby	07/23/2018 10:16	Joseph Suarez	2007888
	07/17/2018	07/20/2018 11:00	Adrian Shelby	07/23/2018 10:18	Joseph Suarez	2007889
	07/17/2018	07/20/2018 11:00	Adrian Shelby	07/23/2018 10:19	Joseph Suarez	2007890
EPA 353.2 Rev. 2.0	07/17/2018			07/18/2018 12:57	Lauren Bottorf	2007888
	07/17/2018			07/18/2018 12:58	Lauren Bottorf	2007889
	07/17/2018			07/18/2018 12:59	Lauren Bottorf	2007890
EPA 365.1 Rev. 2.0	07/17/2018	07/20/2018 13:40	Sima Feizi	07/23/2018 13:34	Beverly Y. Sanders	2007888
	07/17/2018	07/20/2018 13:40	Sima Feizi	07/23/2018 13:35	Beverly Y. Sanders	2007889
	07/17/2018	07/20/2018 13:40	Sima Feizi	07/23/2018 13:36	Beverly Y. Sanders	2007890
EPA 365.1 Rev. 2.0 dissolved	07/17/2018			07/17/2018 15:23	Julia Storbeck	2007893
	07/17/2018			07/17/2018 15:53	Julia Storbeck	2007891
	07/17/2018			07/17/2018 15:54	Julia Storbeck	2007892
EPA 8270D	07/17/2018	07/18/2018 09:00	Fe-Val Siddell	07/23/2018 19:27	Dinesh Mishra	2007905
	07/17/2018	07/20/2018 09:35	Dinesh Mishra	07/25/2018 16:42	Vandana T. Nagar	2007906
	07/17/2018	07/20/2018 09:35	Dinesh Mishra	08/03/2018 15:41	Vandana T. Nagar	2007906
EPA 8276	07/17/2018	07/18/2018 09:00	Fe-Val Siddell	07/23/2018 17:32	Dinesh Mishra	2007905
EPA 8321B	07/17/2018	07/18/2018 10:30	Hoor Shaik	07/23/2018 21:05	Juyoung Kim	2007900
	07/17/2018	07/18/2018 10:30	Hoor Shaik	07/24/2018 06:53	Juyoung Kim	2007901
	07/17/2018	07/18/2018 10:30	Hoor Shaik	07/26/2018 12:22	Juyoung Kim	2007901
	07/17/2018	07/20/2018 16:00	Mohammad Ghaffari	07/20/2018 18:30	Mohammad Ghaffari	2007901
	07/17/2018	07/20/2018 16:00	Mohammad Ghaffari	07/20/2018 21:36	Mohammad Ghaffari	2007901
	07/17/2018	07/20/2018 16:00	Mohammad Ghaffari	07/21/2018 23:04	Mohammad Ghaffari	2007901
SM 2120 B	07/17/2018			07/17/2018 16:27	Tanya Welborn	2007885
	07/17/2018			07/17/2018 16:28	Tanya Welborn	2007886

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2120 B	07/17/2018			07/17/2018 16:29	Tanya Welborn	2007887
SM 2320 B-97	07/17/2018			07/19/2018 00:37	Dale L. Simmons	2007885
	07/17/2018			07/19/2018 03:11	Dale L. Simmons	2007886
	07/17/2018			07/19/2018 03:21	Dale L. Simmons	2007887
	07/17/2018			07/20/2018 14:31	Yijie Li	2007885, 2007886, 2007887
SM 2540 C-97	07/17/2018			07/20/2018 14:31	Yijie Li	2007885, 2007886, 2007887
SM 2540 D-97	07/17/2018			07/19/2018 00:29	Dale L. Simmons	2007885
SM 4500 F-C-97	07/17/2018			07/19/2018 03:11	Dale L. Simmons	2007886
	07/17/2018			07/19/2018 03:21	Dale L. Simmons	2007887
	07/17/2018			07/19/2018 07:22	Megan Treadwell	2007888
	07/17/2018			07/19/2018 07:37	Megan Treadwell	2007889
SM 5310 B-00	07/17/2018			07/19/2018 21:38	Megan Treadwell	2007890
	07/17/2018					