Chemical Analysis Report

SO-DIST-2019-06-19-02

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

Event Description: **P Cricks 1**
Request ID: **RQ-2019-06-10-37**
Customer: **SO-DIST**
Project ID: **SMP**

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FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
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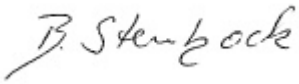
Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator Date Certified: 11-JUL-2019 17:45



Case Narrative

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

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

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

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

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

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

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

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

Precision is reported as relative percent difference unless otherwise noted.

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

QC Codes used in this report may include:

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

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

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

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

Sample Location: HawthorneCreek@Reynolds **Collection Date/Time: 06/18/2019 09:45**

Field ID: G3SD0011 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2096739	EPA 180.1 Rev. 2.0	Turbidity	3.7	A	NTU	P365992	
	EPA 300.0 Rev. 2.1	Chloride	210		mg Cl/L	P366269	
		Sulfate	150		mg SO4/L	P366271	
	SM 2120 B	Color (true)	68	A	PCU	P366040	
	SM 2320 B-97	Total Alkalinity	143		mg CaCO3/L	P366157	
	SM 2540 C-97	TDS	726		mg/L	P366543	
	SM 2540 D-97	TSS	8	I	mg/L	P366529	
	SM 4500 F-C-97	Fluoride	0.42		mg F/L	P366161	
2096740	EPA 350.1 Rev. 2.0	Ammonia-N	0.036		mg N/L	P366277	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P366266	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.26		mg N/L	P366226	
	EPA 365.1 Rev. 2.0	Total-P	0.39		mg P/L	P366177	
	SM 5310 B-00	Organic Carbon	15		mg C/L	P366075	
2096741	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.24		mg P/L	P365967	
2096771	EPA 8321B	Aldicarb	0.020	U	ug/L	P365921	RPD
		Aldicarb Sulfone	0.0020	U	ug/L	P365921	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P365921	
		Carbaryl	0.0020	U	ug/L	P365921	
		Carbofuran	0.0020	U	ug/L	P365921	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P365921	
		Methiocarb	0.0020	U	ug/L	P365921	
		Methomyl	0.0020	U	ug/L	P365921	
		Oxamyl	0.0020	U	ug/L	P365921	
		Propoxur	0.0020	U	ug/L	P365921	
2096772		2,4-D	0.024		ug/L	P365948	
		Acesulfame K**	0.10	U	ug/L	P365987	
		AMPA**	1.5		ug/L	P365987	MS
		Sucralose**	0.015	I	ug/L	P365987	
		Acetaminophen**	0.0080	U	ug/L	P365948	
		Endothall**	0.25	U	ug/L	P365987	
		Glufosinate**	0.10	U	ug/L	P365987	MS
		Glyphosate**	0.10	U	ug/L	P365987	MS
		Bentazon	8.0E-04	U	ug/L	P365948	
		Carbamazepine**	8.0E-04	U	ug/L	P365948	
		Diuron	1.4		ug/L	P365948	
		Fenuron	0.059	I	ug/L	P365948	
		Fluridone**	8.0E-04	U	ug/L	P365948	
		Imazapyr**	0.0040	U	ug/L	P365948	
		Hydrocodone**	0.0020	U	ug/L	P365948	
		Ibuprofen**	0.020	U	ug/L	P365948	
		Imidacloprid	1.5		ug/L	P365948	MS
		Linuron	0.0040	U	ug/L	P365948	
		MCPP	0.0020	UJ	ug/L	P365948	LCS, MS

Field ID: G3SD0011 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2096772	EPA 8321B	Naproxen**	0.011	I	ug/L	P365948	
		Primidone**	0.0040	U	ug/L	P365948	
		Pyraclostrobin**	0.0020	U	ug/L	P365948	
		Triclopyr**	0.0040	U	ug/L	P365948	MS
2096781	EPA 8270E	Aldrin	4.3	U	ng/L	P366274	
		Alpha-BHC	2.1	UJ	ng/L	P366274	LCS
		Alpha-Chlordane	1.1	U	ng/L	P366274	
		Beta-BHC	11	U	ng/L	P366274	
		Bifenthrin**	4.3	U	ng/L	P366274	
		Delta-BHC	8.5	U	ng/L	P366274	
		Gamma-BHC	8.5	U	ng/L	P366274	
		Carbophenothion	11	U	ng/L	P366274	
		Chlorothalonil	2.1	UJ	ng/L	P366274	LCS
		Cis-Nonachlor**	1.1	U	ng/L	P366274	
		Cypermethrin	21	U	ng/L	P366274	
		DDD-p,p'	6.4	U	ng/L	P366274	
		DDE-p,p'	6.4	U	ng/L	P366274	
		DDT-p,p'	7.5	U	ng/L	P366274	
		Dicofol	32	U	ng/L	P366274	
		Dieldrin	4.3	U	ng/L	P366274	
		Endosulfan I	4.3	U	ng/L	P366274	
		Endosulfan II	4.3	U	ng/L	P366274	
		Endosulfan Sulfate	2.1	U	ng/L	P366274	
		Endrin	2.1	U	ng/L	P366274	
		Endrin Aldehyde	2.1	U	ng/L	P366274	
		Endrin Ketone	2.1	U	ng/L	P366274	
		Ethalfluralin**	3.2	U	ng/L	P366274	
		Gamma-Chlordane	1.1	U	ng/L	P366274	
		Heptachlor	1.6	U	ng/L	P366274	
		Heptachlor Epoxide	2.1	U	ng/L	P366274	
		Hexachlorobenzene**	2.1	U	ng/L	P366274	
		Methoxychlor	4.3	U	ng/L	P366274	
		Mirex	2.1	U	ng/L	P366274	
		Permethrin	11	U	ng/L	P366274	
		Trans-Nonachlor**	1.1	U	ng/L	P366274	
		Trifluralin	2.7	U	ng/L	P366274	
	EPA 8276	Chlordane	5.3	U	ng/L	P366274	
		Toxaphene	32	U	ng/L	P366274	
2096782	EPA 8270E	Acetochlor	0.27	U	ng/L	P365996	
		Alachlor	0.27	U	ng/L	P365996	
		Ametryn	0.64	U	ng/L	P365996	
		Atrazine	0.27	U	ng/L	P365996	
		Atrazine Desethyl	1.6	U	ng/L	P365996	
		Azinphos Methyl	5.3	U	ng/L	P365996	
		Bromacil	1.5E+03		ng/L	P365996	

Field ID: G3SD0011 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2096782	EPA 8270E	Butylate	0.43	UJ	ng/L	P365996	LCS
		Chlorpyrifos Ethyl	0.27	U	ng/L	P365996	
		Chlorpyrifos Methyl	0.11	U	ng/L	P365996	
		Cyanazine	3.5	U	ng/L	P365996	
		Demeton	7.5	U	ng/L	P365996	
		Diazinon	0.13	U	ng/L	P365996	
		Dimethenamid**	0.11	U	ng/L	P365996	
		Disulfoton	0.53	U	ng/L	P365996	
		Dithiopyr**	0.11	U	ng/L	P365996	
		EPTC	1.3	UJ	ng/L	P365996	LCS
		Ethion	0.16	U	ng/L	P365996	
		Ethoprop	0.11	U	ng/L	P365996	
		Fenamiphos	0.53	UJ	ng/L	P365996	LCS, RPD
		Fipronil	0.27	U	ng/L	P365996	
		Fipronil Desulfinyl**	0.13	U	ng/L	P365996	
		Fipronil Sulfide	0.16	U	ng/L	P365996	
		Fipronil Sulfone	0.16	U	ng/L	P365996	
		Fonofos	0.21	U	ng/L	P365996	
		Hexazinone	0.53	U	ng/L	P365996	
		Malathion	0.37	U	ng/L	P365996	
		Metalaxyl	130	J	ng/L	P365996	LCS, MS, RPD
		Metolachlor	0.83	I	ng/L	P365996	
		Metribuzin	0.80	U	ng/L	P365996	
		Mevinphos	0.53	U	ng/L	P365996	
		Molinate	0.32	UJ	ng/L	P365996	LCS
		Norflurazon	2.2E+03		ng/L	P365996	
		Oxadiazon**	0.11	U	ng/L	P365996	
		Parathion Ethyl	0.27	U	ng/L	P365996	
		Parathion Methyl	0.59	U	ng/L	P365996	
		Pendimethalin	1.1	U	ng/L	P365996	
		Phorate	0.27	U	ng/L	P365996	
		Prodiamine**	0.19	U	ng/L	P365996	
		Prometon	0.96	U	ng/L	P365996	
		Prometryn	0.21	U	ng/L	P365996	
		Simazine	16	J	ng/L	P365996	
		Tebuconazole**	1.1	I	ng/L	P365996	
		Terbufos	0.11	U	ng/L	P365996	
		Terbuthylazine	0.45	U	ng/L	P365996	
2096791	EPA 200.7 Rev. 4.4	Barium	46.6		ug/L	P366035	
		Calcium	107		mg/L	P366035	
		Iron	380		ug/L	P366035	
		Magnesium	29.6		mg/L	P366035	
		Potassium	14.3		mg/L	P366035	
		Sodium	91.0		mg/L	P366035	

Field ID: G3SD0011 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2096791	EPA 200.7 Rev. 4.4	Zinc	5.0	U	ug/L	P366035	
	EPA 200.8 Rev. 5.4	Aluminum	177		ug/L	P366035	
		Antimony	0.81		ug/L	P366035	
		Arsenic	2.39		ug/L	P366035	
		Boron**	86.0		ug/L	P366035	
		Cadmium	0.030	I	ug/L	P366035	
		Chromium	0.77	I	ug/L	P366035	
		Copper	1.17		ug/L	P366035	
		Lead	0.20	U	ug/L	P366035	
		Nickel	2.7		ug/L	P366035	
		Selenium	0.31	I	ug/L	P366035	
		Silver	0.010	U	ug/L	P366035	
		Thallium	0.10	U	ug/L	P366035	

Ref. Method and Comment:
SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: LFB is not available due to technical difficulties.
EPA 8321B: Refer to the narrative for an explanation of QC Codes.
EPA 8270E: Refer to the narrative for an explanation of QC Codes.
EPA 8270E: Estimated value for metalaxyl, and simazine due to internal standard recovery exceeding control limits. Refer to the narrative for an explanation of QC Codes.

Sample Location: Hog Bay @ CR 763 **Collection Date/Time: 06/18/2019 10:15**

Field ID: G3SD0096 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2096742	EPA 180.1 Rev. 2.0	Turbidity	2.3		NTU	P365992	
	EPA 300.0 Rev. 2.1	Chloride	120		mg Cl/L	P366491	
		Sulfate	140		mg SO4/L	P366492	
	SM 2120 B	Color (true)	60		PCU	P366040	
	SM 2320 B-97	Total Alkalinity	115		mg CaCO3/L	P366157	
	SM 2540 C-97	TDS	518		mg/L	P366543	
	SM 2540 D-97	TSS	6	I	mg/L	P366529	
	SM 4500 F-C-97	Fluoride	0.27		mg F/L	P366161	
2096745	EPA 350.1 Rev. 2.0	Ammonia-N	0.062		mg N/L	P366277	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.97		mg N/L	P366267	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.37		mg N/L	P366226	
	EPA 365.1 Rev. 2.0	Total-P	0.13		mg P/L	P366177	
	SM 5310 B-00	Organic Carbon	14		mg C/L	P366075	
2096748	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.075		mg P/L	P365967	
2096773	EPA 8321B	Aldicarb	0.020	U	ug/L	P365921	RPD
		Aldicarb Sulfone	0.0020	U	ug/L	P365921	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P365921	
		Carbaryl	0.0020	U	ug/L	P365921	
		Carbofuran	0.0020	U	ug/L	P365921	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P365921	
		Methiocarb	0.0020	U	ug/L	P365921	
		Methomyl	0.0020	U	ug/L	P365921	
		Oxamyl	0.0020	U	ug/L	P365921	
		Propoxur	0.0020	U	ug/L	P365921	
2096776		2,4-D	0.0068	I	ug/L	P365948	
		Acesulfame K**	0.10	U	ug/L	P365987	
		AMPA**	0.47		ug/L	P365987	MS
		Sucralose**	0.015	I	ug/L	P365987	
		Acetaminophen**	0.0080	U	ug/L	P365948	
		Endothall**	0.25	U	ug/L	P365987	
		Glufosinate**	0.10	U	ug/L	P365987	MS
		Glyphosate**	0.10	U	ug/L	P365987	MS
		Bentazon	8.0E-04	U	ug/L	P365948	
		Carbamazepine**	8.0E-04	U	ug/L	P365948	
		Diuron	0.0096		ug/L	P365948	
		Fenuron	0.016	U	ug/L	P365948	
		Fluridone**	8.0E-04	U	ug/L	P365948	
		Imazapyr**	0.0040	U	ug/L	P365948	
		Hydrocodone**	0.0020	U	ug/L	P365948	
		Ibuprofen**	0.020	U	ug/L	P365948	
		Imidacloprid	0.75		ug/L	P365948	MS
		Linuron	0.0040	U	ug/L	P365948	
		MCPP	0.0020	UJ	ug/L	P365948	LCS, MS

Field ID: G3SD0096 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2096776	EPA 8321B	Naproxen**	0.0080	U	ug/L	P365948	
		Primidone**	0.0040	U	ug/L	P365948	
		Pyraclostrobin**	0.0020	U	ug/L	P365948	
		Triclopyr**	0.0040	U	ug/L	P365948	MS
2096783	EPA 8270E	Aldrin	4.3	U	ng/L	P366274	
		Alpha-BHC	2.1	UJ	ng/L	P366274	LCS
		Alpha-Chlordane	1.1	U	ng/L	P366274	
		Beta-BHC	11	U	ng/L	P366274	
		Bifenthrin**	4.3	U	ng/L	P366274	
		Delta-BHC	8.5	U	ng/L	P366274	
		Gamma-BHC	8.5	U	ng/L	P366274	
		Carbophenothion	11	U	ng/L	P366274	
		Chlorothalonil	2.1	UJ	ng/L	P366274	LCS
		Cis-Nonachlor**	1.1	U	ng/L	P366274	
		Cypermethrin	21	U	ng/L	P366274	
		DDD-p,p'	6.4	U	ng/L	P366274	
		DDE-p,p'	6.4	U	ng/L	P366274	
		DDT-p,p'	7.5	U	ng/L	P366274	
		Dicofol	32	U	ng/L	P366274	
		Dieldrin	4.3	U	ng/L	P366274	
		Endosulfan I	4.3	U	ng/L	P366274	
		Endosulfan II	4.3	U	ng/L	P366274	
		Endosulfan Sulfate	2.1	U	ng/L	P366274	
		Endrin	2.1	U	ng/L	P366274	
		Endrin Aldehyde	2.1	U	ng/L	P366274	
		Endrin Ketone	2.1	U	ng/L	P366274	
		Ethalfluralin**	3.2	U	ng/L	P366274	
		Gamma-Chlordane	1.1	U	ng/L	P366274	
		Heptachlor	1.6	U	ng/L	P366274	
		Heptachlor Epoxide	2.1	U	ng/L	P366274	
		Hexachlorobenzene**	2.1	U	ng/L	P366274	
		Methoxychlor	4.3	U	ng/L	P366274	
		Mirex	2.1	U	ng/L	P366274	
		Permethrin	11	U	ng/L	P366274	
		Trans-Nonachlor**	1.1	U	ng/L	P366274	
		Trifluralin	2.7	U	ng/L	P366274	
	EPA 8276	Chlordane	5.3	U	ng/L	P366274	
		Toxaphene	32	U	ng/L	P366274	
2096786	EPA 8270E	Acetochlor	0.27	U	ng/L	P365996	
		Alachlor	0.27	U	ng/L	P365996	
		Ametryn	0.64	U	ng/L	P365996	
		Atrazine	0.78	I	ng/L	P365996	
		Atrazine Desethyl	1.6	U	ng/L	P365996	
		Azinphos Methyl	5.3	U	ng/L	P365996	
		Bromacil	2.6E+03		ng/L	P365996	

Field ID: G3SD0096 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2096786	EPA 8270E	Butylate	0.42	UJ	ng/L	P365996	LCS
		Chlorpyrifos Ethyl	0.27	U	ng/L	P365996	
		Chlorpyrifos Methyl	0.11	U	ng/L	P365996	
		Cyanazine	3.5	U	ng/L	P365996	
		Demeton	7.4	U	ng/L	P365996	
		Diazinon	0.13	U	ng/L	P365996	
		Dimethenamid**	0.11	U	ng/L	P365996	
		Disulfoton	0.53	U	ng/L	P365996	
		Dithiopyr**	0.11	U	ng/L	P365996	
		EPTC	1.3	UJ	ng/L	P365996	LCS
		Ethion	0.16	U	ng/L	P365996	
		Ethoprop	0.11	U	ng/L	P365996	
		Fenamiphos	0.53	UJ	ng/L	P365996	LCS, RPD
		Fipronil	0.27	U	ng/L	P365996	
		Fipronil Desulfinyl**	0.13	U	ng/L	P365996	
		Fipronil Sulfide	0.16	U	ng/L	P365996	
		Fipronil Sulfone	0.16	U	ng/L	P365996	
		Fonofos	0.21	U	ng/L	P365996	
		Hexazinone	0.53	U	ng/L	P365996	
		Malathion	0.37	U	ng/L	P365996	
		Metalaxyl	110	J	ng/L	P365996	LCS, MS, RPD
		Metolachlor	0.53	U	ng/L	P365996	
		Metribuzin	0.80	U	ng/L	P365996	
		Mevinphos	0.53	U	ng/L	P365996	
		Molinate	0.32	UJ	ng/L	P365996	LCS
		Norflurazon	3.1E+03		ng/L	P365996	
		Oxadiazon**	0.11	U	ng/L	P365996	
		Parathion Ethyl	0.27	U	ng/L	P365996	
		Parathion Methyl	0.58	U	ng/L	P365996	
		Pendimethalin	1.1	U	ng/L	P365996	
		Phorate	0.27	U	ng/L	P365996	
		Prodiamine**	0.19	U	ng/L	P365996	
		Prometon	0.96	U	ng/L	P365996	
		Prometryn	0.21	U	ng/L	P365996	
		Simazine	2.1		ng/L	P365996	
		Tebuconazole**	0.53	U	ng/L	P365996	
		Terbufos	0.11	U	ng/L	P365996	
		Terbuthylazine	0.45	U	ng/L	P365996	
2096792	EPA 200.7 Rev. 4.4	Barium	50.7		ug/L	P366035	
		Calcium	79.1		mg/L	P366035	
		Iron	460		ug/L	P366035	
		Magnesium	20.6		mg/L	P366035	
		Potassium	14.4		mg/L	P366035	
		Sodium	58.5		mg/L	P366035	

Field ID: G3SD0096 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2096792	EPA 200.7 Rev. 4.4	Zinc	5.0	U	ug/L	P366035	
	EPA 200.8 Rev. 5.4	Aluminum	128		ug/L	P366035	
		Antimony	1.67		ug/L	P366035	
		Arsenic	1.73		ug/L	P366035	
		Boron**	94.8		ug/L	P366035	
		Cadmium	0.023	I	ug/L	P366035	
		Chromium	0.78	I	ug/L	P366035	
		Copper	0.75	I	ug/L	P366035	
		Lead	0.20	U	ug/L	P366035	
		Nickel	3.3		ug/L	P366035	
		Selenium	0.58	I	ug/L	P366035	
		Silver	0.010	U	ug/L	P366035	
		Thallium	0.12	I	ug/L	P366035	

Ref. Method and Comment:
SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: LFB is not available due to technical difficulties.
EPA 8321B: Refer to the narrative for an explanation of QC Codes.
EPA 8270E: Refer to the narrative for an explanation of QC Codes.

Sample Location: MyrtleSlough@PineIsland **Collection Date/Time: 06/18/2019 11:10**

Field ID: G3SD0095 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2096751	EPA 180.1 Rev. 2.0	Turbidity	5.7	A	NTU	P365993	
	EPA 300.0 Rev. 2.1	Chloride	29		mg Cl/L	P366269	
		Sulfate	4.8		mg SO4/L	P366271	
	SM 2120 B	Color (true)	69		PCU	P366040	
	SM 2320 B-97	Total Alkalinity	222		mg CaCO3/L	P366157	
	SM 2540 C-97	TDS	282		mg/L	P366543	
	SM 2540 D-97	TSS	2	I	mg/L	P366529	
	SM 4500 F-C-97	Fluoride	0.17		mg F/L	P366161	
2096752	EPA 350.1 Rev. 2.0	Ammonia-N	0.057		mg N/L	P366278	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.97		mg N/L	P366267	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.063		mg N/L	P366227	
	EPA 365.1 Rev. 2.0	Total-P	0.052		mg P/L	P366177	
	SM 5310 B-00	Organic Carbon	15		mg C/L	P366238	
2096753	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.019		mg P/L	P365967	
2096779	EPA 8321B	Aldicarb	0.020	U	ug/L	P365921	RPD
		Aldicarb Sulfone	0.0020	U	ug/L	P365921	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P365921	
		Carbaryl	0.0020	U	ug/L	P365921	
		Carbofuran	0.0020	U	ug/L	P365921	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P365921	
		Methiocarb	0.0020	U	ug/L	P365921	
		Methomyl	0.0020	U	ug/L	P365921	
		Oxamyl	0.0020	U	ug/L	P365921	
		Propoxur	0.0020	U	ug/L	P365921	
2096780		2,4-D	0.0021	I	ug/L	P365948	
		Acesulfame K**	0.10	U	ug/L	P365987	
		AMPA**	0.10	U	ug/L	P365987	MS
		Sucralose**	0.011	I	ug/L	P365987	
		Acetaminophen**	0.0080	U	ug/L	P365948	
		Endothall**	0.25	U	ug/L	P365987	
		Glufosinate**	0.10	U	ug/L	P365987	MS
		Glyphosate**	0.10	U	ug/L	P365987	MS
		Bentazon	8.0E-04	U	ug/L	P365948	
		Carbamazepine**	8.0E-04	U	ug/L	P365948	
		Diuron	0.0020	U	ug/L	P365948	
		Fenuron	0.016	U	ug/L	P365948	
		Fluridone**	0.026		ug/L	P365948	
		Imazapyr**	0.0040	U	ug/L	P365948	
		Hydrocodone**	0.0020	U	ug/L	P365948	
		Ibuprofen**	0.020	U	ug/L	P365948	
		Imidacloprid	0.0020	U	ug/L	P365948	MS
		Linuron	0.0040	U	ug/L	P365948	
		MCPP	0.0020	UJ	ug/L	P365948	LCS, MS

Field ID: G3SD0095 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2096780	EPA 8321B	Naproxen**	0.0080	U	ug/L	P365948	
		Primidone**	0.0040	U	ug/L	P365948	
		Pyraclostrobin**	0.0020	U	ug/L	P365948	
		Triclopyr**	0.0040	U	ug/L	P365948	MS
2096789	EPA 8270E	Aldrin	4.4	U	ng/L	P366274	
		Alpha-BHC	2.2	UJ	ng/L	P366274	LCS
		Alpha-Chlordane	1.1	U	ng/L	P366274	
		Beta-BHC	11	U	ng/L	P366274	
		Bifenthrin**	4.4	U	ng/L	P366274	
		Delta-BHC	8.8	U	ng/L	P366274	
		Gamma-BHC	8.8	U	ng/L	P366274	
		Carbophenothion	11	U	ng/L	P366274	
		Chlorothalonil	2.2	UJ	ng/L	P366274	LCS
		Cis-Nonachlor**	1.1	U	ng/L	P366274	
		Cypermethrin	22	U	ng/L	P366274	
		DDD-p,p'	6.6	U	ng/L	P366274	
		DDE-p,p'	6.6	U	ng/L	P366274	
		DDT-p,p'	7.7	U	ng/L	P366274	
		Dicofol	33	U	ng/L	P366274	
		Dieldrin	4.4	U	ng/L	P366274	
		Endosulfan I	4.4	U	ng/L	P366274	
		Endosulfan II	4.4	U	ng/L	P366274	
		Endosulfan Sulfate	2.2	U	ng/L	P366274	
		Endrin	2.2	U	ng/L	P366274	
		Endrin Aldehyde	2.2	U	ng/L	P366274	
		Endrin Ketone	2.2	U	ng/L	P366274	
		Ethalfluralin**	3.3	U	ng/L	P366274	
		Gamma-Chlordane	1.1	U	ng/L	P366274	
		Heptachlor	1.6	U	ng/L	P366274	
		Heptachlor Epoxide	2.2	U	ng/L	P366274	
		Hexachlorobenzene**	2.2	U	ng/L	P366274	
		Methoxychlor	4.4	U	ng/L	P366274	
		Mirex	2.2	U	ng/L	P366274	
		Permethrin	11	U	ng/L	P366274	
		Trans-Nonachlor**	1.1	U	ng/L	P366274	
		Trifluralin	2.7	U	ng/L	P366274	
	EPA 8276	Chlordane	5.5	U	ng/L	P366274	
		Toxaphene	33	U	ng/L	P366274	
2096790	EPA 8270E	Acetochlor	0.27	U	ng/L	P365996	
		Alachlor	0.27	U	ng/L	P365996	
		Ametryn	0.64	U	ng/L	P365996	
		Atrazine	2.2	J	ng/L	P365996	
		Atrazine Desethyl	1.6	U	ng/L	P365996	
		Azinphos Methyl	5.3	U	ng/L	P365996	
		Bromacil	0.53	U	ng/L	P365996	

Field ID: G3SD0095 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2096790	EPA 8270E	Butylate	0.43	UJ	ng/L	P365996	LCS
		Chlorpyrifos Ethyl	0.27	U	ng/L	P365996	
		Chlorpyrifos Methyl	0.11	U	ng/L	P365996	
		Cyanazine	3.5	U	ng/L	P365996	
		Demeton	7.5	U	ng/L	P365996	
		Diazinon	0.13	U	ng/L	P365996	
		Dimethenamid**	0.11	U	ng/L	P365996	
		Disulfoton	0.53	U	ng/L	P365996	
		Dithiopyr**	0.12	I	ng/L	P365996	
		EPTC	1.3	UJ	ng/L	P365996	LCS
		Ethion	0.16	U	ng/L	P365996	
		Ethoprop	0.11	U	ng/L	P365996	
		Fenamiphos	0.53	UJ	ng/L	P365996	LCS, RPD
		Fipronil	0.27	U	ng/L	P365996	
		Fipronil Desulfinyl**	0.13	U	ng/L	P365996	
		Fipronil Sulfide	0.16	U	ng/L	P365996	
		Fipronil Sulfone	0.16	U	ng/L	P365996	
		Fonofos	0.21	U	ng/L	P365996	
		Hexazinone	18		ng/L	P365996	
		Malathion	0.37	U	ng/L	P365996	
		Metalaxyl	0.68	IJ	ng/L	P365996	LCS, MS, RPD
		Metolachlor	3.6	J	ng/L	P365996	
		Metribuzin	0.80	U	ng/L	P365996	
		Mevinphos	0.53	U	ng/L	P365996	
		Molinate	0.32	UJ	ng/L	P365996	LCS
		Norflurazon	3.8	J	ng/L	P365996	
		Oxadiazon**	0.31	I	ng/L	P365996	
		Parathion Ethyl	0.27	U	ng/L	P365996	
		Parathion Methyl	0.59	U	ng/L	P365996	
		Pendimethalin	1.1	U	ng/L	P365996	
		Phorate	0.27	U	ng/L	P365996	
		Prodiamine**	0.19	U	ng/L	P365996	
		Prometon	0.96	U	ng/L	P365996	
		Prometryn	0.21	U	ng/L	P365996	
		Simazine	6.3	J	ng/L	P365996	
		Tebuconazole**	0.53	U	ng/L	P365996	
		Terbufos	0.11	U	ng/L	P365996	
		Terbuthylazine	0.45	U	ng/L	P365996	
2096795	EPA 200.7 Rev. 4.4	Barium	30.4		ug/L	P366035	
		Calcium	81.8		mg/L	P366035	
		Iron	1.21E+03		ug/L	P366035	
		Magnesium	5.08		mg/L	P366035	
		Potassium	1.5		mg/L	P366035	
		Sodium	20.6		mg/L	P366035	

Field ID: G3SD0095 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2096795	EPA 200.7 Rev. 4.4	Zinc	5.0	U	ug/L	P366035	
	EPA 200.8 Rev. 5.4	Aluminum	16	I	ug/L	P366035	
		Antimony	0.063	I	ug/L	P366035	
		Arsenic	1.25		ug/L	P366035	
		Boron**	45.6		ug/L	P366035	
		Cadmium	0.020	U	ug/L	P366035	
		Chromium	0.40	U	ug/L	P366035	
		Copper	0.40	U	ug/L	P366035	
		Lead	0.20	U	ug/L	P366035	
		Nickel	0.50	U	ug/L	P366035	
		Selenium	0.20	U	ug/L	P366035	
		Silver	0.010	U	ug/L	P366035	
		Thallium	0.10	U	ug/L	P366035	

Ref. Method and Comment:
SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: LFB is not available due to technical difficulties.
EPA 8321B: Refer to the narrative for an explanation of QC Codes.
EPA 8270E: Refer to the narrative for an explanation of QC Codes.
EPA 8270E: Estimated value for atrazine, simazine, norflurazon, and metolachlor due to internal standard recovery exceeding control limits. Refer to the narrative for an explanation of QC Codes.

Sample Location: Myrtle Slough @ SR 31 **Collection Date/Time: 06/18/2019 11:50**

Field ID: G3SD0097 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2096743	EPA 180.1 Rev. 2.0	Turbidity	5.1		NTU	P365992	
	EPA 300.0 Rev. 2.1	Chloride	150		mg Cl/L	P366269	
		Sulfate	76		mg SO4/L	P366271	
	SM 2120 B	Color (true)	85		PCU	P366040	
	SM 2320 B-97	Total Alkalinity	153		mg CaCO3/L	P366157	
	SM 2540 C-97	TDS	564		mg/L	P366543	
	SM 2540 D-97	TSS	6	I	mg/L	P366529	
	SM 4500 F-C-97	Fluoride	0.21		mg F/L	P366161	
2096746	EPA 350.1 Rev. 2.0	Ammonia-N	0.049		mg N/L	P366278	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P366267	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.34		mg N/L	P366226	
	EPA 365.1 Rev. 2.0	Total-P	0.096		mg P/L	P366177	
	SM 5310 B-00	Organic Carbon	16		mg C/L	P366075	
2096749	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.068		mg P/L	P365967	
2096774	EPA 8321B	Aldicarb	0.020	U	ug/L	P365921	RPD
		Aldicarb Sulfone	0.0020	U	ug/L	P365921	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P365921	
		Carbaryl	0.0020	U	ug/L	P365921	
		Carbofuran	0.0020	U	ug/L	P365921	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P365921	
		Methiocarb	0.0020	U	ug/L	P365921	
		Methomyl	0.0020	U	ug/L	P365921	
		Oxamyl	0.0020	U	ug/L	P365921	
		Propoxur	0.0020	U	ug/L	P365921	
2096777		2,4-D	0.057		ug/L	P365948	
		Acesulfame K**	0.10	U	ug/L	P365987	
		AMPA**	0.75		ug/L	P365987	MS
		Sucralose**	0.010	U	ug/L	P365987	
		Acetaminophen**	0.0080	U	ug/L	P365948	
		Endothall**	0.25	U	ug/L	P365987	
		Glufosinate**	0.10	U	ug/L	P365987	MS
		Glyphosate**	0.10	U	ug/L	P365987	MS
		Bentazon	0.0010	I	ug/L	P365948	
		Carbamazepine**	8.0E-04	U	ug/L	P365948	
		Diuron	0.076		ug/L	P365948	
		Fenuron	0.016	U	ug/L	P365948	
		Fluridone**	0.012		ug/L	P365948	
		Imazapyr**	0.023		ug/L	P365948	
		Hydrocodone**	0.0020	U	ug/L	P365948	
		Ibuprofen**	0.020	U	ug/L	P365948	
		Imidacloprid	0.71		ug/L	P365948	MS
		Linuron	0.0040	U	ug/L	P365948	
		MCPP	0.0020	UJ	ug/L	P365948	LCS, MS

Field ID: G3SD0097 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2096777	EPA 8321B	Naproxen**	0.0080	U	ug/L	P365948	
		Primidone**	0.0040	U	ug/L	P365948	
		Pyraclostrobin**	0.0020	U	ug/L	P365948	
		Triclopyr**	0.0040	U	ug/L	P365948	MS
2096784	EPA 8270E	Aldrin	4.2	U	ng/L	P366274	
		Alpha-BHC	2.1	UJ	ng/L	P366274	LCS
		Alpha-Chlordane	1.1	U	ng/L	P366274	
		Beta-BHC	11	U	ng/L	P366274	
		Bifenthrin**	4.2	U	ng/L	P366274	
		Delta-BHC	8.4	U	ng/L	P366274	
		Gamma-BHC	8.4	U	ng/L	P366274	
		Carbophenothion	11	U	ng/L	P366274	
		Chlorothalonil	2.1	UJ	ng/L	P366274	LCS
		Cis-Nonachlor**	1.1	U	ng/L	P366274	
		Cypermethrin	21	U	ng/L	P366274	
		DDD-p,p'	6.3	U	ng/L	P366274	
		DDE-p,p'	6.3	U	ng/L	P366274	
		DDT-p,p'	7.4	U	ng/L	P366274	
		Dicofol	32	U	ng/L	P366274	
		Dieldrin	4.2	U	ng/L	P366274	
		Endosulfan I	4.2	U	ng/L	P366274	
		Endosulfan II	4.2	U	ng/L	P366274	
		Endosulfan Sulfate	2.1	U	ng/L	P366274	
		Endrin	2.1	U	ng/L	P366274	
		Endrin Aldehyde	2.1	U	ng/L	P366274	
		Endrin Ketone	2.1	U	ng/L	P366274	
		Ethalfluralin**	3.2	U	ng/L	P366274	
		Gamma-Chlordane	1.1	U	ng/L	P366274	
		Heptachlor	1.6	U	ng/L	P366274	
		Heptachlor Epoxide	2.1	U	ng/L	P366274	
		Hexachlorobenzene**	2.1	U	ng/L	P366274	
		Methoxychlor	4.2	U	ng/L	P366274	
		Mirex	2.1	U	ng/L	P366274	
		Permethrin	11	U	ng/L	P366274	
		Trans-Nonachlor**	1.1	U	ng/L	P366274	
		Trifluralin	2.6	U	ng/L	P366274	
	EPA 8276	Chlordane	5.3	U	ng/L	P366274	
		Toxaphene	32	U	ng/L	P366274	
2096787	EPA 8270E	Acetochlor	0.25	U	ng/L	P365996	
		Alachlor	0.25	U	ng/L	P365996	
		Ametryn	0.60	U	ng/L	P365996	
		Atrazine	1.8	J	ng/L	P365996	
		Atrazine Desethyl	1.5	U	ng/L	P365996	
		Azinphos Methyl	5.0	U	ng/L	P365996	
		Bromacil	620		ng/L	P365996	

Field ID: G3SD0097 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2096787	EPA 8270E	Butylate	0.40	UJ	ng/L	P365996	LCS
		Chlorpyrifos Ethyl	0.25	U	ng/L	P365996	
		Chlorpyrifos Methyl	0.10	U	ng/L	P365996	
		Cyanazine	3.3	U	ng/L	P365996	
		Demeton	7.0	U	ng/L	P365996	
		Diazinon	0.13	U	ng/L	P365996	
		Dimethenamid**	0.10	U	ng/L	P365996	
		Disulfoton	0.50	U	ng/L	P365996	
		Dithiopyr**	0.10	U	ng/L	P365996	
		EPTC	1.3	UJ	ng/L	P365996	LCS
		Ethion	0.15	U	ng/L	P365996	
		Ethoprop	0.10	U	ng/L	P365996	
		Fenamiphos	0.50	UJ	ng/L	P365996	LCS, RPD
		Fipronil	0.25	U	ng/L	P365996	
		Fipronil Desulfinyl**	0.13	U	ng/L	P365996	
		Fipronil Sulfide	0.15	U	ng/L	P365996	
		Fipronil Sulfone	0.15	U	ng/L	P365996	
		Fonofos	0.20	U	ng/L	P365996	
		Hexazinone	2.2		ng/L	P365996	
		Malathion	0.35	U	ng/L	P365996	
		Metalaxyl	290	J	ng/L	P365996	LCS, MS, RPD
		Metolachlor	3.0	J	ng/L	P365996	
		Metribuzin	0.75	U	ng/L	P365996	
		Mevinphos	0.50	U	ng/L	P365996	
		Molinate	0.30	UJ	ng/L	P365996	LCS
		Norflurazon	1.0E+03		ng/L	P365996	
		Oxadiazon**	0.11	I	ng/L	P365996	
		Parathion Ethyl	0.25	U	ng/L	P365996	
		Parathion Methyl	0.55	U	ng/L	P365996	
		Pendimethalin	1.0	U	ng/L	P365996	
		Phorate	0.25	U	ng/L	P365996	
		Prodiamine**	0.18	U	ng/L	P365996	
		Prometon	0.90	U	ng/L	P365996	
		Prometryn	0.20	U	ng/L	P365996	
		Simazine	50		ng/L	P365996	
		Tebuconazole**	0.50	U	ng/L	P365996	
		Terbufos	0.10	U	ng/L	P365996	
		Terbuthylazine	0.43	U	ng/L	P365996	
2096793	EPA 200.7 Rev. 4.4	Barium	48.1		ug/L	P366035	
		Calcium	92.2		mg/L	P366035	
		Iron	370		ug/L	P366035	
		Magnesium	14.2		mg/L	P366035	
		Potassium	13.7		mg/L	P366035	
		Sodium	67.0		mg/L	P366035	

Field ID: G3SD0097 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2096793	EPA 200.7 Rev. 4.4	Zinc	5.0	U	ug/L	P366035	
	EPA 200.8 Rev. 5.4	Aluminum	117		ug/L	P366332	
		Antimony	0.34		ug/L	P366035	
		Arsenic	0.98		ug/L	P366035	
		Boron**	83.2		ug/L	P366035	
		Cadmium	0.020	U	ug/L	P366035	
		Chromium	0.60	I	ug/L	P366035	
		Copper	1.28		ug/L	P366035	
		Lead	0.20	U	ug/L	P366035	
		Nickel	1.8	I	ug/L	P366035	
		Selenium	1.15		ug/L	P366035	
		Silver	0.010	U	ug/L	P366035	
		Thallium	0.10	U	ug/L	P366035	

Ref. Method and Comment:
SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: LFB is not available due to technical difficulties.
EPA 8321B: Refer to the narrative for an explanation of QC Codes.
EPA 8270E: Refer to the narrative for an explanation of QC Codes.
EPA 8270E: Estimated value for atrazine and metolachlor due to internal standard recovery exceeding control limits. Refer to the narrative for an explanation of QC Codes.

Sample Location: Myrtle Slough @ SR 31 **Collection Date/Time: 06/18/2019 11:55**

Field ID: G3SD0097_DUP Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2096744	EPA 180.1 Rev. 2.0	Turbidity	5.6		NTU	P365993	
	EPA 300.0 Rev. 2.1	Chloride	150		mg Cl/L	P366269	
		Sulfate	76		mg SO4/L	P366271	
	SM 2120 B	Color (true)	85		PCU	P366040	
	SM 2320 B-97	Total Alkalinity	154		mg CaCO3/L	P366157	
	SM 2540 C-97	TDS	553		mg/L	P366543	
	SM 2540 D-97	TSS	7	I	mg/L	P366529	
	SM 4500 F-C-97	Fluoride	0.21		mg F/L	P366161	
2096747	EPA 350.1 Rev. 2.0	Ammonia-N	0.049		mg N/L	P366278	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P366267	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.34		mg N/L	P366226	
	EPA 365.1 Rev. 2.0	Total-P	0.096		mg P/L	P366177	
	SM 5310 B-00	Organic Carbon	16		mg C/L	P366075	
2096750	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.068		mg P/L	P365967	
2096775	EPA 8321B	Aldicarb	0.020	U	ug/L	P365921	RPD
		Aldicarb Sulfone	0.0020	U	ug/L	P365921	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P365921	
		Carbaryl	0.0020	U	ug/L	P365921	
		Carbofuran	0.0020	U	ug/L	P365921	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P365921	
		Methiocarb	0.0020	U	ug/L	P365921	
		Methomyl	0.0020	U	ug/L	P365921	
		Oxamyl	0.0020	U	ug/L	P365921	
		Propoxur	0.0020	U	ug/L	P365921	
2096778		2,4-D	0.056		ug/L	P365948	
		Acesulfame K**	0.10	U	ug/L	P365987	
		AMPA**	0.76		ug/L	P365987	MS
		Sucralose**	0.010	U	ug/L	P365987	
		Acetaminophen**	0.0080	U	ug/L	P365948	
		Endothall**	0.25	U	ug/L	P365987	
		Glufosinate**	0.10	U	ug/L	P365987	MS
		Glyphosate**	0.10	U	ug/L	P365987	MS
		Bentazon	0.0011	I	ug/L	P365948	
		Carbamazepine**	8.0E-04	U	ug/L	P365948	
		Diuron	0.079		ug/L	P365948	
		Fenuron	0.016	U	ug/L	P365948	
		Fluridone**	0.013		ug/L	P365948	
		Imazapyr**	0.026		ug/L	P365948	
		Hydrocodone**	0.0020	U	ug/L	P365948	
		Ibuprofen**	0.020	U	ug/L	P365948	
		Imidacloprid	0.78		ug/L	P365948	MS
		Linuron	0.0040	U	ug/L	P365948	
		MCPP	0.0020	UJ	ug/L	P365948	LCS, MS

Field ID: G3SD0097_DUP Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2096778	EPA 8321B	Naproxen**	0.0080	U	ug/L	P365948	
		Primidone**	0.0040	U	ug/L	P365948	
		Pyraclostrobin**	0.0020	U	ug/L	P365948	
		Triclopyr**	0.0040	U	ug/L	P365948	MS
2096785	EPA 8270E	Aldrin	4.3	U	ng/L	P366274	
		Alpha-BHC	2.2	UJ	ng/L	P366274	LCS
		Alpha-Chlordane	1.1	U	ng/L	P366274	
		Beta-BHC	11	U	ng/L	P366274	
		Bifenthrin**	4.3	U	ng/L	P366274	
		Delta-BHC	8.7	U	ng/L	P366274	
		Gamma-BHC	8.7	U	ng/L	P366274	
		Carbophenothion	11	U	ng/L	P366274	
		Chlorothalonil	2.2	UJ	ng/L	P366274	LCS
		Cis-Nonachlor**	1.1	U	ng/L	P366274	
		Cypermethrin	22	U	ng/L	P366274	
		DDD-p,p'	6.5	U	ng/L	P366274	
		DDE-p,p'	6.5	U	ng/L	P366274	
		DDT-p,p'	7.6	U	ng/L	P366274	
		Dicofol	33	U	ng/L	P366274	
		Dieldrin	4.3	U	ng/L	P366274	
		Endosulfan I	4.3	U	ng/L	P366274	
		Endosulfan II	4.3	U	ng/L	P366274	
		Endosulfan Sulfate	2.2	U	ng/L	P366274	
		Endrin	2.2	U	ng/L	P366274	
		Endrin Aldehyde	2.2	U	ng/L	P366274	
		Endrin Ketone	2.2	U	ng/L	P366274	
		Ethalfluralin**	3.3	U	ng/L	P366274	
		Gamma-Chlordane	1.1	U	ng/L	P366274	
		Heptachlor	1.6	U	ng/L	P366274	
		Heptachlor Epoxide	2.2	U	ng/L	P366274	
		Hexachlorobenzene**	2.2	U	ng/L	P366274	
		Methoxychlor	4.3	U	ng/L	P366274	
		Mirex	2.2	U	ng/L	P366274	
		Permethrin	11	U	ng/L	P366274	
		Trans-Nonachlor**	1.1	U	ng/L	P366274	
		Trifluralin	2.7	U	ng/L	P366274	
	EPA 8276	Chlordane	5.4	U	ng/L	P366274	
		Toxaphene	33	U	ng/L	P366274	
2096788	EPA 8270E	Acetochlor	0.26	U	ng/L	P365996	
		Alachlor	0.26	U	ng/L	P365996	
		Ametryn	0.62	U	ng/L	P365996	
		Atrazine	1.9	J	ng/L	P365996	
		Atrazine Desethyl	1.5	U	ng/L	P365996	
		Azinphos Methyl	5.1	U	ng/L	P365996	
		Bromacil	710		ng/L	P365996	

Field ID: G3SD0097_DUP Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2096788	EPA 8270E	Butylate	0.41	UJ	ng/L	P365996	LCS
		Chlorpyrifos Ethyl	0.26	U	ng/L	P365996	
		Chlorpyrifos Methyl	0.10	U	ng/L	P365996	
		Cyanazine	3.3	U	ng/L	P365996	
		Demeton	7.2	U	ng/L	P365996	
		Diazinon	0.13	U	ng/L	P365996	
		Dimethenamid**	0.10	U	ng/L	P365996	
		Disulfoton	0.51	U	ng/L	P365996	
		Dithiopyr**	0.10	U	ng/L	P365996	
		EPTC	1.3	UJ	ng/L	P365996	LCS
		Ethion	0.15	U	ng/L	P365996	
		Ethoprop	0.10	U	ng/L	P365996	
		Fenamiphos	0.51	UJ	ng/L	P365996	LCS, RPD
		Fipronil	0.26	U	ng/L	P365996	
		Fipronil Desulfinyl**	0.13	U	ng/L	P365996	
		Fipronil Sulfide	0.15	U	ng/L	P365996	
		Fipronil Sulfone	0.15	U	ng/L	P365996	
		Fonofos	0.21	U	ng/L	P365996	
		Hexazinone	2.0	I	ng/L	P365996	
		Malathion	0.36	U	ng/L	P365996	
		Metalaxyl	290	J	ng/L	P365996	LCS, MS, RPD
		Metolachlor	2.9	J	ng/L	P365996	
		Metribuzin	0.77	U	ng/L	P365996	
		Mevinphos	0.51	U	ng/L	P365996	
		Molinate	0.31	UJ	ng/L	P365996	LCS
		Norflurazon	1.2E+03		ng/L	P365996	
		Oxadiazon**	0.12	I	ng/L	P365996	
		Parathion Ethyl	0.26	U	ng/L	P365996	
		Parathion Methyl	0.57	U	ng/L	P365996	
		Pendimethalin	1.0	U	ng/L	P365996	
		Phorate	0.26	U	ng/L	P365996	
		Prodiamine**	0.18	U	ng/L	P365996	
		Prometon	0.93	U	ng/L	P365996	
		Prometryn	0.21	U	ng/L	P365996	
		Simazine	44		ng/L	P365996	
		Tebuconazole**	0.51	U	ng/L	P365996	
		Terbufos	0.10	U	ng/L	P365996	
		Terbuthylazine	0.44	U	ng/L	P365996	
2096794	EPA 200.7 Rev. 4.4	Barium	48.1		ug/L	P366035	
		Calcium	91.9		mg/L	P366035	
		Iron	400		ug/L	P366035	
		Magnesium	14.2		mg/L	P366035	
		Potassium	13.7		mg/L	P366035	
		Sodium	67.2		mg/L	P366035	

Field ID: G3SD0097_DUP Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2096794	EPA 200.7 Rev. 4.4	Zinc	5.0	U	ug/L	P366035	
	EPA 200.8 Rev. 5.4	Aluminum	130		ug/L	P366332	
		Antimony	0.34		ug/L	P366035	
		Arsenic	0.98		ug/L	P366035	
		Boron**	80.5		ug/L	P366035	
		Cadmium	0.020	U	ug/L	P366035	
		Chromium	0.65	I	ug/L	P366035	
		Copper	1.36		ug/L	P366035	
		Lead	0.20	U	ug/L	P366035	
		Nickel	1.8	I	ug/L	P366035	
		Selenium	1.14		ug/L	P366035	
		Silver	0.010	U	ug/L	P366035	
		Thallium	0.10	U	ug/L	P366035	

Ref. Method and Comment:
SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: LFB is not available due to technical difficulties.
EPA 8321B: Refer to the narrative for an explanation of QC Codes.
EPA 8270E: Refer to the narrative for an explanation of QC Codes.
EPA 8270E: Estimated value for atrazine and metolachlor due to internal standard recovery exceeding control limits. Refer to the narrative for an explanation of QC Codes.

Quality Assurance Report
Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P365992

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P365993

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P366035

Component	Result	Code	Units
Barium	1.0	U	ug/L
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P366035

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P366332

Component	Result	Code	Units
Aluminum	5.0	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P366269

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P366271

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P366491

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P366492

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P366277

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P366278

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P366266

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P366267

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P366226

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P366227

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P366177

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P365967

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

Reference Method: EPA 8270E
Batch ID: P365996

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	5.0	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Cyanazine	3.2	U	ng/L
Demeton	7.0	U	ng/L
Diazinon	0.12	U	ng/L
Dimethenamid	0.10	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.10	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Fenamiphos	0.50	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.30	U	ng/L
Metolachlor	0.50	U	ng/L
Metribuzin	0.75	U	ng/L
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.10	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P365996

Component	Result	Code	Units
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 8270E
Batch ID: P366274

Component	Result	Code	Units
Aldrin	4.0	U	ng/L
Alpha-BHC	2.0	U	ng/L
Alpha-Chlordane	1.0	U	ng/L
Beta-BHC	10	U	ng/L
Bifenthrin	4.0	U	ng/L
Carbophenothion	10	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cis-Nonachlor	1.0	U	ng/L
Cypermethrin	20	U	ng/L
DDD-p,p'	6.0	U	ng/L
DDE-p,p'	6.0	U	ng/L
DDT-p,p'	7.0	U	ng/L
Delta-BHC	8.0	U	ng/L
Dicofol	30	U	ng/L
Dieldrin	4.0	U	ng/L
Endosulfan I	4.0	U	ng/L
Endosulfan II	4.0	U	ng/L
Endosulfan Sulfate	2.0	U	ng/L
Endrin	2.0	U	ng/L
Endrin Aldehyde	2.0	U	ng/L
Endrin Ketone	2.0	U	ng/L
Ethalfluralin	3.0	U	ng/L
Gamma-BHC	8.0	U	ng/L
Gamma-Chlordane	1.0	U	ng/L
Heptachlor	1.5	U	ng/L
Heptachlor Epoxide	2.0	U	ng/L
Hexachlorobenzene	2.0	U	ng/L
Methoxychlor	4.0	U	ng/L
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Trans-Nonachlor	1.0	U	ng/L
Trifluralin	2.5	U	ng/L

Reference Method: EPA 8276
Batch ID: P366274

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P365921

Component	Result	Code	Units
3-Hydroxycarbofuran	0.0020	U	ug/L
Aldicarb	0.020	U	ug/L
Aldicarb Sulfone	0.0020	U	ug/L
Aldicarb Sulfoxide	0.0020	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Oxamyl	0.0020	U	ug/L
Propoxur	0.0020	U	ug/L

Reference Method: EPA 8321B
Batch ID: P365948

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Bentazon	8.0E-04	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P365987

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

Reference Method: SM 2120 B
Batch ID: P366040

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report
Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P366157

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

Reference Method: SM 2540 C-97
Batch ID: P366543

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P366529

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P366161

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P366075

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

Reference Method: SM 5310 B-00
Batch ID: P366238

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: P366035

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	100		P	85 - 115
Calcium	99.8		P	85 - 115
Iron	104		P	85 - 115
Magnesium	99.2		P	85 - 115
Potassium	99.1		P	85 - 115
Sodium	97.9		P	85 - 115
Zinc	97.7		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P366035

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	98.1		P	85 - 115
Antimony	97.7		P	85 - 115
Arsenic	101		P	85 - 115
Boron	100		P	85 - 115
Cadmium	97.8		P	85 - 115
Chromium	96.0		P	85 - 115
Copper	92.3		P	85 - 115
Lead	98.0		P	85 - 115
Nickel	99.3		P	85 - 115
Selenium	101		P	85 - 115
Silver	98.5		P	85 - 115
Thallium	99.6		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P366332

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	103		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P366269

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P366271

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P366491

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P366492

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	96.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P366277

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P366278

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P366266

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P366267

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P366226

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P366227

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P366177

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P365967

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P365996

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	120	114	P/P	69 - 122
Alachlor	115	111	P/P	71 - 120
Ametryn	101	96.5	P/P	47 - 138
Atrazine	114	103	P/P	74 - 124
Atrazine Desethyl	78.1	70.8	P/P	38 - 138
Azinphos Methyl	109	94.5	P/P	69 - 154
Bromacil	96.2	91.6	P/P	39 - 121
Butylate	93.6	84.3	F/P	27 - 87.0
Chlorpyrifos Ethyl	113	103	P/P	69 - 118
Chlorpyrifos Methyl	108	99.5	P/P	70 - 120
Cyanazine	158	137	P/P	20 - 250
Demeton	87.2	65.5	P/P	39 - 118
Diazinon	115	110	P/P	68 - 127
Dimethenamid	115	113	P/P	66 - 125
Disulfoton	78.6	74.3	P/P	52 - 126
Dithiopyr	115	114	P/P	67 - 127
EPTC	91.4	82.3	F/P	24 - 88.0
Ethion	108	103	P/P	51 - 132
Ethoprop	106	99.5	P/P	58 - 117
Fenamiphos	54.4	36.5	P/F	38 - 139
Fipronil	108	108	P/P	61 - 124
Fipronil Desulfinyl	102	99.5	P/P	47 - 120
Fipronil Sulfide	104	102	P/P	56 - 119
Fipronil Sulfone	105	102	P/P	50 - 117
Fonofos	98.8	95.1	P/P	60 - 121
Hexazinone	114	86.0	P/P	55 - 137
Malathion	112	105	P/P	66 - 126
Metalaxyl	38.8	27.9	P/F	33 - 140
Metolachlor	113	110	P/P	69 - 119
Metribuzin	116	104	P/P	31 - 238
Mevinphos	88.3	82.4	P/P	42 - 113
Molinate	100	90.1	F/P	32 - 96.0
Norflurazon	107	100	P/P	54 - 123
Oxadiazon	107	103	P/P	63 - 128
Parathion Ethyl	95.7	96.4	P/P	72 - 111
Parathion Methyl	99.3	91.9	P/P	74 - 126
Pendimethalin	103	96.0	P/P	61 - 131
Phorate	92.2	80.2	P/P	51 - 115
Prodiamine	101	99.7	P/P	38 - 144
Prometon	94.9	78.2	P/P	54 - 119
Prometryn	88.1	95.3	P/P	63 - 120
Simazine	106	101	P/P	75 - 126
Tebuconazole	89.7	91.3	P/P	20 - 119
Terbufos	102	92.1	P/P	64 - 116
Terbuthylazine	111	105	P/P	73 - 117

Reference Method: EPA 8270E
Batch ID: P366274

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	61.5	63.5	P/P	20 - 93.0
Alpha-BHC	128	117	F/P	57 - 119

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P366274

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Alpha-Chlordane	92.3	87.3	P/P	58 - 112
Beta-BHC	143	128	P/P	56 - 149
Bifenthrin	66.5	72.4	P/P	50 - 130
Carbophenothion	61.5	76.9	P/P	26 - 147
Chlorothalonil	187	163	F/F	20 - 155
Cis-Nonachlor	91.6	87.9	P/P	50 - 130
Cypermethrin	72.6	75.8	P/P	40 - 137
DDD-p,p'	103	95.8	P/P	65 - 129
DDE-p,p'	93.5	83.9	P/P	57 - 116
DDT-p,p'	115	106	P/P	53 - 133
Delta-BHC	161	134	P/P	59 - 163
Dicofol	90.8	88.8	P/P	24 - 138
Dieldrin	106	98.1	P/P	60 - 120
Endosulfan I	103	95.2	P/P	64 - 118
Endosulfan II	111	103	P/P	58 - 142
Endosulfan Sulfate	97.4	85.7	P/P	60 - 127
Endrin	105	96.1	P/P	59 - 122
Endrin Aldehyde	114	102	P/P	49 - 132
Endrin Ketone	95.9	93.6	P/P	64 - 121
Ethalfluralin	107	101	P/P	50 - 130
Gamma-BHC	131	123	P/P	56 - 141
Gamma-Chlordane	92.3	87.3	P/P	56 - 110
Heptachlor	76.4	74.9	P/P	46 - 96.0
Heptachlor Epoxide	95.8	91.4	P/P	61 - 112
Hexachlorobenzene	84.7	78.8	P/P	50 - 130
Methoxychlor	133	132	P/P	63 - 134
Mirex	65.9	68.2	P/P	45 - 100
Permethrin	71.3	71.4	P/P	53 - 115
Trans-Nonachlor	85.8	84.3	P/P	50 - 130
Trifluralin	105	96.7	P/P	39 - 142

Reference Method: EPA 8276
Batch ID: P366274

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	82.6	87.5	P/P	43 - 128
Toxaphene	79.3	79.4	P/P	38 - 140

Reference Method: EPA 8321B
Batch ID: P365948

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	113		P	40 - 150
Acetaminophen	125		P	30 - 150
Bentazon	87.9		P	30 - 150
Carbamazepine	102		P	40 - 150
Diuron	94.7		P	40 - 150
Fenuron	103		P	40 - 150
Fluridone	112		P	40 - 150
Hydrocodone	100		P	40 - 150
Ibuprofen	71.7		P	30 - 150
Imazapyr	72.3		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P365948

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Imidacloprid	101		P	40 - 150
Linuron	71.0		P	40 - 150
MCPP	151		F	40 - 150
Naproxen	102		P	40 - 150
Primidone	93.2		P	40 - 150
Pyraclostrobin	85.9		P	30 - 150
Triclopyr	98.5		P	30 - 150

Reference Method: EPA 8321B
Batch ID: P365987

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	118		P	40 - 150
AMPA	101		P	40 - 150
Endothall	107		P	40 - 150
Glufosinate	98.5		P	40 - 150
Glyphosate	100		P	40 - 140
Sucralose	94.8		P	40 - 150

Reference Method: SM 2120 B
Batch ID: P366040

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

Reference Method: SM 2320 B-97
Batch ID: P366157

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	105		P	98 - 106

Reference Method: SM 4500 F-C-97
Batch ID: P366161

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.1		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P366075

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.2		P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P366238

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	93.8		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P366035

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2096576	Barium	100	98.9	P/P	80 - 120
2096576	Calcium	96.6		P	80 - 120
2096576	Iron	105	104	P/P	80 - 120
2096576	Magnesium	100		P	80 - 120
2096576	Potassium	97.0		P	80 - 120
2096576	Sodium	95.6		P	80 - 120
2096576	Zinc	101	99.8	P/P	80 - 120
2096714	Barium	99.5		P	80 - 120
2096714	Calcium	99.6		P	80 - 120
2096714	Iron	103		P	80 - 120
2096714	Magnesium	102		P	80 - 120
2096714	Potassium	98.3		P	80 - 120
2096714	Sodium	98.7		P	80 - 120
2096714	Zinc	99.2		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P366035

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2096576	Aluminum	101	100	P/P	80 - 120
2096576	Antimony	102	103	P/P	80 - 120
2096576	Arsenic	105	106	P/P	80 - 120
2096576	Boron	103	104	P/P	80 - 120
2096576	Cadmium	102	103	P/P	80 - 120
2096576	Chromium	97.6	98.5	P/P	80 - 120
2096576	Copper	94.2	94.9	P/P	80 - 120
2096576	Lead	101	101	P/P	80 - 120
2096576	Nickel	99.6	101	P/P	80 - 120
2096576	Selenium	102	102	P/P	80 - 120
2096576	Silver	98.0	99.9	P/P	80 - 120
2096576	Thallium	104	104	P/P	80 - 120
2096714	Aluminum	100		P	80 - 120
2096714	Antimony	103		P	80 - 120
2096714	Arsenic	105		P	80 - 120
2096714	Boron	102		P	80 - 120
2096714	Cadmium	103		P	80 - 120
2096714	Chromium	99.1		P	80 - 120
2096714	Copper	95.8		P	80 - 120
2096714	Lead	102		P	80 - 120
2096714	Nickel	101		P	80 - 120
2096714	Selenium	103		P	80 - 120
2096714	Silver	100		P	80 - 120
2096714	Thallium	103		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P366332

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2098240	Aluminum	101	98.8	P/P	80 - 120

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P366269

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2096590	Chloride	99.7		P	90 - 110
2096718	Chloride	99.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P366271

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2096590	Sulfate	99.9		P	90 - 110
2096718	Sulfate	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P366491

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2096949	Chloride	99.2		P	90 - 110
2097104	Chloride	99.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P366492

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2096949	Sulfate	99.5		P	90 - 110
2097104	Sulfate	98.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P366277

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2096733	Ammonia-N	101	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P366278

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2096921	Ammonia-N	101	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P366266

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2096733	Kjeldahl Nitrogen	107	107	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P366267

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2096745	Kjeldahl Nitrogen	103	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P366226

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P366226

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2096708	NO2NO3-N	101	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P366227

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2096752	NO2NO3-N	102	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P366177

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2096733	Total-P	103	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P365967

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2096734	O-Phosphate-P	95.9	97.0	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P365996

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2096765	Acetochlor	112	109	P/P	63 - 129
2096765	Alachlor	112	109	P/P	65 - 127
2096765	Ametryn	106	104	P/P	40 - 164
2096765	Atrazine	112	109	P/P	66 - 135
2096765	Atrazine Desethyl	77.6	79.4	P/P	14 - 157
2096765	Azinphos Methyl	96.1	99.3	P/P	49 - 180
2096765	Bromacil	96.2	94.9	P/P	48 - 130
2096765	Butylate	84.5	74.9	P/P	10 - 94.0
2096765	Chlorpyrifos Ethyl	113	106	P/P	58 - 123
2096765	Chlorpyrifos Methyl	103	100	P/P	58 - 125
2096765	Cyanazine	165	127	P/P	24 - 253
2096765	Demeton	70.9	69.0	P/P	25 - 149
2096765	Diazinon	109	109	P/P	59 - 144
2096765	Dimethenamid	109	108	P/P	46 - 139
2096765	Disulfoton	85.6	78.3	P/P	54 - 132
2096765	Dithiopyr	110	109	P/P	64 - 130
2096765	EPTC	75.7	79.5	P/P	10 - 92.0
2096765	Ethion	109	99.6	P/P	30 - 148
2096765	Ethoprop	103	96.2	P/P	50 - 130
2096765	Fenamiphos	75.5	80.4	P/P	49 - 142
2096765	Fipronil	105	103	P/P	46 - 140
2096765	Fipronil Desulfinyl	100	96.5	P/P	30 - 121
2096765	Fipronil Sulfide	105	94.8	P/P	31 - 136
2096765	Fipronil Sulfone	107	97.1	P/P	16 - 136
2096765	Fonofos	96.0	92.4	P/P	55 - 129
2096765	Hexazinone	133	140	P/P	56 - 141
2096765	Malathion	110	103	P/P	56 - 135
2096765	Metalaxyl	45.9	72.6	F/P	54 - 135

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P365996

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2096765	Metolachlor	108	108	P/P	51 - 140
2096765	Metribuzin	123	126	P/P	45 - 254
2096765	Mevinphos	80.6	85.4	P/P	33 - 131
2096765	Molinate	85.4	88.7	P/P	14 - 98.0
2096765	Norflurazon	102	100	P/P	34 - 136
2096765	Oxadiazon	105	102	P/P	67 - 116
2096765	Parathion Ethyl	94.3	93.6	P/P	66 - 118
2096765	Parathion Methyl	89.6	94.0	P/P	64 - 136
2096765	Pendimethalin	101	93.8	P/P	59 - 144
2096765	Phorate	78.5	82.8	P/P	42 - 130
2096765	Prodiamine	109	100	P/P	42 - 148
2096765	Prometon	77.0	98.8	P/P	59 - 134
2096765	Prometryn	99.0	95.1	P/P	54 - 135
2096765	Simazine	103	107	P/P	53 - 156
2096765	Tebuconazole	85.7	97.7	P/P	10 - 131
2096765	Terbufos	98.1	92.1	P/P	57 - 131
2096765	Terbuthylazine	109	104	P/P	68 - 125

Reference Method: EPA 8270E
Batch ID: P366274

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2096781	Aldrin	67.3	71.4	P/P	25 - 92.0
2096781	Alpha-BHC	115	124	P/P	49 - 130
2096781	Alpha-Chlordane	73.9	80.9	P/P	50 - 115
2096781	Beta-BHC	123	123	P/P	43 - 157
2096781	Bifenthrin	88.0	92.4	P/P	50 - 130
2096781	Carbophenothion	79.2	83.1	P/P	27 - 180
2096781	Chlorothalonil	209	215	P/P	10 - 216
2096781	Cis-Nonachlor	74.9	79.6	P/P	50 - 130
2096781	Cypermethrin	93.2	101	P/P	40 - 153
2096781	DDD-p,p'	76.5	84.0	P/P	53 - 128
2096781	DDE-p,p'	72.9	79.1	P/P	48 - 116
2096781	DDT-p,p'	86.1	91.9	P/P	47 - 128
2096781	Delta-BHC	119	136	P/P	51 - 196
2096781	Dicofol	79.9	98.5	P/P	10 - 147
2096781	Dieldrin	83.4	90.4	P/P	48 - 128
2096781	Endosulfan I	83.9	89.9	P/P	58 - 126
2096781	Endosulfan II	99.6	98.7	P/P	50 - 150
2096781	Endosulfan Sulfate	122	115	P/P	56 - 130
2096781	Endrin	87.0	94.2	P/P	50 - 126
2096781	Endrin Aldehyde	109	106	P/P	12 - 145
2096781	Endrin Ketone	103	102	P/P	59 - 132
2096781	Ethalfluralin	94.2	97.4	P/P	50 - 130
2096781	Gamma-BHC	125	129	P/P	50 - 155
2096781	Gamma-Chlordane	73.9	80.9	P/P	50 - 112
2096781	Heptachlor	73.4	75.4	P/P	41 - 98.0
2096781	Heptachlor Epoxide	77.9	84.2	P/P	55 - 117
2096781	Hexachlorobenzene	77.0	77.6	P/P	50 - 130
2096781	Methoxychlor	121	131	P/P	55 - 133
2096781	Mirex	68.8	73.5	P/P	44 - 101
2096781	Permethrin	88.3	93.6	P/P	52 - 124

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P366274

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2096781	Trans-Nonachlor	70.1	76.8	P/P	50 - 130
2096781	Trifluralin	92.7	93.6	P/P	10 - 201

Reference Method: EPA 8276
Batch ID: P366274

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2097521	Chlordane	70.4	68.6	P/P	34 - 136
2097521	Toxaphene	62.1	60.6	P/P	22 - 152

Reference Method: EPA 8321B
Batch ID: P365921

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2096686	3-Hydroxycarbofuran	107	90.0	P/P	40 - 150
2096686	Aldicarb	77.2	52.9	P/P	30 - 150
2096686	Aldicarb Sulfone	115	103	P/P	40 - 150
2096686	Aldicarb Sulfoxide	60.4	51.5	P/P	40 - 150
2096686	Carbaryl	82.8	73.1	P/P	40 - 150
2096686	Carbofuran	77.7	70.4	P/P	40 - 150
2096686	Methiocarb	78.6	69.8	P/P	40 - 150
2096686	Methomyl	81.6	73.6	P/P	40 - 150
2096686	Oxamyl	101	95.3	P/P	40 - 150
2096686	Propoxur	74.2	67.3	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P365948

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2096571	2,4-D	93.1	117	P/P	40 - 150
2096571	Acetaminophen	98.9	101	P/P	30 - 150
2096571	Bentazon	45.8	94.5	P/P	30 - 150
2096571	Carbamazepine	72.2	80.2	P/P	40 - 150
2096571	Diuron	63.8	71.6	P/P	40 - 150
2096571	Fenuron	78.3	87.3	P/P	40 - 150
2096571	Fluridone	70.0	81.4	P/P	40 - 150
2096571	Hydrocodone	96.0	101	P/P	40 - 150
2096571	Ibuprofen	63.0	70.3	P/P	30 - 150
2096571	Imazapyr	97.5	115	P/P	40 - 150
2096571	Imidacloprid	136	164	P/F	40 - 150
2096571	Linuron	60.7	59.7	P/P	40 - 150
2096571	MCPP	144	176	P/F	40 - 150
2096571	Naproxen	62.1	55.0	P/P	40 - 150
2096571	Primidone	77.4	78.5	P/P	40 - 150
2096571	Pyraclostrobin	87.1	90.1	P/P	30 - 150
2096571	Triclopyr	130	154	P/F	30 - 150

Reference Method: EPA 8321B
Batch ID: P365987

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2096084	Acesulfame K	83.1	82.1	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P365987

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2096084	AMPA	18.2	28.7	F/F	40 - 150
2096084	Endothall	77.0	74.5	P/P	40 - 150
2096084	Glufosinate	39.1	39.5	F/F	40 - 150
2096084	Glyphosate	14.7	32.0	F/F	40 - 140
2096084	Sucralose	52.8	50.2	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P366161

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2096415	Fluoride	97.8	97.8	P/P	89 - 106

Reference Method: SM 5310 B-00
Batch ID: P366075

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2096592	Organic Carbon	95.8	94.8	P/P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P366238

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2096907	Organic Carbon	94.8	95.0	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P365992

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2096739	Turbidity	3.47	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P365993

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2096751	Turbidity	10.4	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P366035

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2096576	Barium	1.21	Spike	P	0 - 20
2096576	Calcium	0.861	Spike	P	0 - 20
2096576	Iron	1.09	Spike	P	0 - 20
2096576	Magnesium	0.671	Spike	P	0 - 20
2096576	Potassium	1.00	Spike	P	0 - 20
2096576	Sodium	1.05	Spike	P	0 - 20
2096576	Zinc	1.23	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P366035

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2096576	Aluminum	0.473	Spike	P	0 - 20
2096576	Antimony	0.545	Spike	P	0 - 20
2096576	Arsenic	1.06	Spike	P	0 - 20
2096576	Boron	0.126	Spike	P	0 - 20
2096576	Cadmium	0.889	Spike	P	0 - 20
2096576	Chromium	0.865	Spike	P	0 - 20
2096576	Copper	0.711	Spike	P	0 - 20
2096576	Lead	0.259	Spike	P	0 - 20
2096576	Nickel	1.35	Spike	P	0 - 20
2096576	Selenium	0.184	Spike	P	0 - 20
2096576	Silver	1.94	Spike	P	0 - 20
2096576	Thallium	0.0504	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P366332

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2098240	Aluminum	1.80	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P366269

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2096590	Chloride	0.369	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P366271

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2096590	Sulfate	0.566	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P366491

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2096949	Chloride	1.59	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P366492

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2096949	Sulfate	2.09	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P366277

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2096733	Ammonia-N	0.0748	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P366278

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2096921	Ammonia-N	0.178	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P366266

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2096733	Kjeldahl Nitrogen	0.0393	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P366267

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2096745	Kjeldahl Nitrogen	0.731	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P366226

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2096708	NO2NO3-N	0.432	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P366227

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2096752	NO2NO3-N	1.13	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P366177

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2096733	Total-P	1.62	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P365967

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2096734	O-Phosphate-P	1.14	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P365996

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2096765	Acetochlor	2.81	Spike	P	0 - 30
2096765	Alachlor	2.11	Spike	P	0 - 30
2096765	Ametryn	1.65	Spike	P	0 - 30
2096765	Atrazine	3.05	Spike	P	0 - 30
2096765	Atrazine Desethyl	2.35	Spike	P	0 - 30
2096765	Azinphos Methyl	3.26	Spike	P	0 - 30
2096765	Bromacil	1.20	Spike	P	0 - 30
2096765	Butylate	12.0	Spike	P	0 - 30
2096765	Chlorpyrifos Ethyl	6.82	Spike	P	0 - 30
2096765	Chlorpyrifos Methyl	2.39	Spike	P	0 - 30
2096765	Cyanazine	25.8	Spike	P	0 - 30
2096765	Demeton	2.69	Spike	P	0 - 30
2096765	Diazinon	0.0929	Spike	P	0 - 30
2096765	Dimethenamid	1.30	Spike	P	0 - 30
2096765	Disulfoton	8.91	Spike	P	0 - 30
2096765	Dithiopyr	1.28	Spike	P	0 - 30
2096765	EPTC	4.88	Spike	P	0 - 30
2096765	Ethion	9.27	Spike	P	0 - 30
2096765	Ethoprop	6.55	Spike	P	0 - 30
2096765	Fenamiphos	6.38	Spike	P	0 - 30
2096765	Fipronil	1.44	Spike	P	0 - 30
2096765	Fipronil Desulfinyl	3.57	Spike	P	0 - 30
2096765	Fipronil Sulfide	10.4	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P365996

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2096765	Fipronil Sulfone	9.64	Spike	P	0 - 30
2096765	Fonofos	3.75	Spike	P	0 - 30
2096765	Hexazinone	4.52	Spike	P	0 - 30
2096765	Malathion	7.03	Spike	P	0 - 30
2096765	Metalaxyl	45.0	Spike	F	0 - 30
2096765	Metolachlor	0.0794	Spike	P	0 - 30
2096765	Metribuzin	2.30	Spike	P	0 - 30
2096765	Mevinphos	5.82	Spike	P	0 - 30
2096765	Molinate	3.78	Spike	P	0 - 30
2096765	Norflurazon	2.00	Spike	P	0 - 30
2096765	Oxadiazon	2.95	Spike	P	0 - 30
2096765	Parathion Ethyl	0.776	Spike	P	0 - 30
2096765	Parathion Methyl	4.72	Spike	P	0 - 30
2096765	Pendimethalin	7.00	Spike	P	0 - 30
2096765	Phorate	5.34	Spike	P	0 - 30
2096765	Prodiamine	8.20	Spike	P	0 - 30
2096765	Prometon	24.8	Spike	P	0 - 30
2096765	Prometryn	4.07	Spike	P	0 - 30
2096765	Simazine	4.24	Spike	P	0 - 30
2096765	Tebuconazole	13.1	Spike	P	0 - 30
2096765	Terbufos	6.32	Spike	P	0 - 30
2096765	Terbuthylazine	4.84	Spike	P	0 - 30
LFB	Acetochlor	5.09	LCS	P	0 - 30
LFB	Alachlor	2.81	LCS	P	0 - 30
LFB	Ametryn	4.32	LCS	P	0 - 30
LFB	Atrazine	10.3	LCS	P	0 - 30
LFB	Atrazine Desethyl	9.78	LCS	P	0 - 30
LFB	Azinphos Methyl	14.1	LCS	P	0 - 30
LFB	Bromacil	4.92	LCS	P	0 - 30
LFB	Butylate	10.5	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	9.88	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	7.97	LCS	P	0 - 30
LFB	Cyanazine	14.0	LCS	P	0 - 30
LFB	Demeton	28.5	LCS	P	0 - 30
LFB	Diazinon	5.29	LCS	P	0 - 30
LFB	Dimethenamid	2.09	LCS	P	0 - 30
LFB	Disulfoton	5.59	LCS	P	0 - 30
LFB	Dithiopyr	1.24	LCS	P	0 - 30
LFB	EPTC	10.4	LCS	P	0 - 30
LFB	Ethion	4.41	LCS	P	0 - 30
LFB	Ethoprop	6.55	LCS	P	0 - 30
LFB	Fenamiphos	39.4	LCS	F	0 - 30
LFB	Fipronil	0.460	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	2.71	LCS	P	0 - 30
LFB	Fipronil Sulfide	1.97	LCS	P	0 - 30
LFB	Fipronil Sulfone	2.87	LCS	P	0 - 30
LFB	Fonofos	3.79	LCS	P	0 - 30
LFB	Hexazinone	28.0	LCS	P	0 - 30
LFB	Malathion	7.34	LCS	P	0 - 30
LFB	Metalaxyl	32.6	LCS	F	0 - 30
LFB	Metolachlor	2.87	LCS	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P365996

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Metribuzin	10.9	LCS	P	0 - 30
LFB	Mevinphos	6.92	LCS	P	0 - 30
LFB	Molinate	10.9	LCS	P	0 - 30
LFB	Norflurazon	6.34	LCS	P	0 - 30
LFB	Oxadiazon	3.46	LCS	P	0 - 30
LFB	Parathion Ethyl	0.704	LCS	P	0 - 30
LFB	Parathion Methyl	7.76	LCS	P	0 - 30
LFB	Pendimethalin	7.21	LCS	P	0 - 30
LFB	Phorate	14.0	LCS	P	0 - 30
LFB	Prodiamine	1.19	LCS	P	0 - 30
LFB	Prometon	19.2	LCS	P	0 - 30
LFB	Prometryn	7.86	LCS	P	0 - 30
LFB	Simazine	5.19	LCS	P	0 - 30
LFB	Tebuconazole	1.83	LCS	P	0 - 30
LFB	Terbufos	10.2	LCS	P	0 - 30
LFB	Terbuthylazine	5.62	LCS	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P366274

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2096781	Aldrin	6.02	Spike	P	0 - 30
2096781	Alpha-BHC	7.70	Spike	P	0 - 30
2096781	Alpha-Chlordane	9.10	Spike	P	0 - 30
2096781	Beta-BHC	0.0277	Spike	P	0 - 30
2096781	Bifenthrin	4.95	Spike	P	0 - 30
2096781	Carbophenothion	4.84	Spike	P	0 - 30
2096781	Chlorothalonil	2.95	Spike	P	0 - 30
2096781	Cis-Nonachlor	6.06	Spike	P	0 - 30
2096781	Cypermethrin	7.72	Spike	P	0 - 30
2096781	DDD-p,p'	9.36	Spike	P	0 - 30
2096781	DDE-p,p'	8.08	Spike	P	0 - 30
2096781	DDT-p,p'	6.44	Spike	P	0 - 30
2096781	Delta-BHC	13.4	Spike	P	0 - 30
2096781	Dicofol	20.8	Spike	P	0 - 30
2096781	Dieldrin	8.10	Spike	P	0 - 30
2096781	Endosulfan I	6.83	Spike	P	0 - 30
2096781	Endosulfan II	0.907	Spike	P	0 - 30
2096781	Endosulfan Sulfate	6.37	Spike	P	0 - 30
2096781	Endrin	7.97	Spike	P	0 - 30
2096781	Endrin Aldehyde	2.19	Spike	P	0 - 30
2096781	Endrin Ketone	0.562	Spike	P	0 - 30
2096781	Ethalfluralin	3.35	Spike	P	0 - 30
2096781	Gamma-BHC	2.72	Spike	P	0 - 30
2096781	Gamma-Chlordane	9.10	Spike	P	0 - 30
2096781	Heptachlor	2.63	Spike	P	0 - 30
2096781	Heptachlor Epoxide	7.76	Spike	P	0 - 30
2096781	Hexachlorobenzene	0.826	Spike	P	0 - 30
2096781	Methoxychlor	8.21	Spike	P	0 - 30
2096781	Mirex	6.57	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P366274

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2096781	Permethrin	5.91	Spike	P	0 - 30
2096781	Trans-Nonachlor	9.09	Spike	P	0 - 30
2096781	Trifluralin	1.04	Spike	P	0 - 30
LFB	Aldrin	3.18	LCS	P	0 - 30
LFB	Alpha-BHC	8.76	LCS	P	0 - 30
LFB	Alpha-Chlordane	5.51	LCS	P	0 - 30
LFB	Beta-BHC	10.6	LCS	P	0 - 30
LFB	Bifenthrin	8.52	LCS	P	0 - 30
LFB	Carbophenothion	22.3	LCS	P	0 - 30
LFB	Chlorothalonil	13.5	LCS	P	0 - 30
LFB	Cis-Nonachlor	4.10	LCS	P	0 - 30
LFB	Cypermethrin	4.31	LCS	P	0 - 30
LFB	DDD-p,p'	7.76	LCS	P	0 - 30
LFB	DDE-p,p'	10.9	LCS	P	0 - 30
LFB	DDT-p,p'	7.92	LCS	P	0 - 30
LFB	Delta-BHC	18.5	LCS	P	0 - 30
LFB	Dicofol	2.24	LCS	P	0 - 30
LFB	Dieldrin	7.70	LCS	P	0 - 30
LFB	Endosulfan I	7.85	LCS	P	0 - 30
LFB	Endosulfan II	7.76	LCS	P	0 - 30
LFB	Endosulfan Sulfate	12.8	LCS	P	0 - 30
LFB	Endrin	8.55	LCS	P	0 - 30
LFB	Endrin Aldehyde	11.3	LCS	P	0 - 30
LFB	Endrin Ketone	2.36	LCS	P	0 - 30
LFB	Ethalfluralin	6.47	LCS	P	0 - 30
LFB	Gamma-BHC	6.25	LCS	P	0 - 30
LFB	Gamma-Chlordane	5.51	LCS	P	0 - 30
LFB	Heptachlor	1.91	LCS	P	0 - 30
LFB	Heptachlor Epoxide	4.73	LCS	P	0 - 30
LFB	Hexachlorobenzene	7.24	LCS	P	0 - 30
LFB	Methoxychlor	0.941	LCS	P	0 - 30
LFB	Mirex	3.51	LCS	P	0 - 30
LFB	Permethrin	0.234	LCS	P	0 - 30
LFB	Trans-Nonachlor	1.78	LCS	P	0 - 30
LFB	Trifluralin	7.91	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P366274

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2097521	Chlordane	2.49	Spike	P	0 - 30
2097521	Toxaphene	2.41	Spike	P	0 - 30
LFB	Chlordane	5.76	LCS	P	0 - 30
LFB	Toxaphene	0.200	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P365921

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P365921

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2096686	3-Hydroxycarbofuran	17.5	Spike	P	0 - 30
2096686	Aldicarb	37.3	Spike	F	0 - 30
2096686	Aldicarb Sulfone	11.2	Spike	P	0 - 30
2096686	Aldicarb Sulfoxide	15.9	Spike	P	0 - 30
2096686	Carbaryl	12.5	Spike	P	0 - 30
2096686	Carbofuran	9.85	Spike	P	0 - 30
2096686	Methiocarb	11.8	Spike	P	0 - 30
2096686	Methomyl	10.3	Spike	P	0 - 30
2096686	Oxamyl	6.20	Spike	P	0 - 30
2096686	Propoxur	9.84	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P365948

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2096571	2,4-D	14.2	Spike	P	0 - 30
2096571	Acetaminophen	2.31	Spike	P	0 - 30
2096571	Bentazon	6.06	Spike	P	0 - 30
2096571	Carbamazepine	9.76	Spike	P	0 - 30
2096571	Diuron	9.91	Spike	P	0 - 30
2096571	Fenuron	10.9	Spike	P	0 - 30
2096571	Fluridone	3.44	Spike	P	0 - 30
2096571	Hydrocodone	4.84	Spike	P	0 - 30
2096571	Ibuprofen	11.0	Spike	P	0 - 30
2096571	Imazapyr	10.3	Spike	P	0 - 30
2096571	Imidacloprid	2.49	Spike	P	0 - 30
2096571	Linuron	1.71	Spike	P	0 - 30
2096571	MCPP	19.1	Spike	P	0 - 30
2096571	Naproxen	12.1	Spike	P	0 - 30
2096571	Primidone	1.16	Spike	P	0 - 30
2096571	Pyraclostrobin	3.35	Spike	P	0 - 30
2096571	Triclopyr	17.1	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P365987

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2096084	Acesulfame K	1.17	Spike	P	0 - 30
2096084	AMPA	8.78	Spike	P	0 - 30
2096084	Endothall	3.36	Spike	P	0 - 30
2096084	Glufosinate	1.10	Spike	P	0 - 30
2096084	Glyphosate	10.5	Spike	P	0 - 30
2096084	Sucralose	5.07	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P366040

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits

Quality Assurance Report
Precision

Reference Method: SM 2120 B
Batch ID: P366040

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2096739	Color (true)	0.203	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P366157

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2096415	Total Alkalinity	0.361	Sample	P	0 - 2.8

Reference Method: SM 2540 C-97
Batch ID: P366543

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2096682	TDS	2.86	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P366161

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2096415	Fluoride	0.0	Spike	P	0 - 2.5

Reference Method: SM 5310 B-00
Batch ID: P366075

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2096592	Organic Carbon	0.677	Spike	P	0 - 20

Reference Method: SM 5310 B-00
Batch ID: P366238

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2096907	Organic Carbon	0.0785	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: 2096771
Field Sample ID: G3SD0011

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	42.2	P	30 - 160

Lab Sample ID: 2096772
Field Sample ID: G3SD0011

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	139	P	30 - 160
EPA 8321B	Acetaminophen-d4	71.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	56.7	P	30 - 160
EPA 8321B	Diuron-d6	60.2	P	30 - 160
EPA 8321B	Endothall-d6	95.3	P	30 - 160
EPA 8321B	Endothall-d6	95.3	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	57.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	57.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	64.2	P	30 - 160
EPA 8321B	Primidone-d5	84.1	P	30 - 160
EPA 8321B	Sucralose-d6	68.8	P	30 - 160
EPA 8321B	Sucralose-d6	68.8	P	30 - 160

Lab Sample ID: 2096773
Field Sample ID: G3SD0096

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	43.5	P	30 - 160

Lab Sample ID: 2096774
Field Sample ID: G3SD0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	39.7	P	30 - 160

Lab Sample ID: 2096775
Field Sample ID: G3SD0097_DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	38.0	P	30 - 160

Lab Sample ID: 2096776
Field Sample ID: G3SD0096

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	141	P	30 - 160
EPA 8321B	Acetaminophen-d4	72.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	69.2	P	30 - 160
EPA 8321B	Diuron-d6	64.7	P	30 - 160
EPA 8321B	Endothall-d6	99.1	P	30 - 160
EPA 8321B	Endothall-d6	99.1	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	54.8	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	54.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	71.4	P	30 - 160
EPA 8321B	Primidone-d5	85.0	P	30 - 160
EPA 8321B	Sucralose-d6	55.4	P	30 - 160

Quality Assurance Report
Surrogates

Lab Sample ID: 2096776
Field Sample ID: G3SD0096

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	55.4	P	30 - 160

Lab Sample ID: 2096777
Field Sample ID: G3SD0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	117	P	30 - 160
EPA 8321B	Acetaminophen-d4	70.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	63.9	P	30 - 160
EPA 8321B	Diuron-d6	59.4	P	30 - 160
EPA 8321B	Endothall-d6	89.7	P	30 - 160
EPA 8321B	Endothall-d6	89.7	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	48.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	48.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	66.5	P	30 - 160
EPA 8321B	Primidone-d5	83.2	P	30 - 160
EPA 8321B	Sucralose-d6	62.7	P	30 - 160
EPA 8321B	Sucralose-d6	62.7	P	30 - 160

Lab Sample ID: 2096778
Field Sample ID: G3SD0097_DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	128	P	30 - 160
EPA 8321B	Acetaminophen-d4	76.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	66.7	P	30 - 160
EPA 8321B	Diuron-d6	60.7	P	30 - 160
EPA 8321B	Endothall-d6	98.7	P	30 - 160
EPA 8321B	Endothall-d6	98.7	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	49.8	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	49.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	63.3	P	30 - 160
EPA 8321B	Primidone-d5	75.3	P	30 - 160
EPA 8321B	Sucralose-d6	68.3	P	30 - 160
EPA 8321B	Sucralose-d6	68.3	P	30 - 160

Lab Sample ID: 2096779
Field Sample ID: G3SD0095

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	39.2	P	30 - 160

Lab Sample ID: 2096780
Field Sample ID: G3SD0095

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	116	P	30 - 160
EPA 8321B	Acetaminophen-d4	78.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	63.7	P	30 - 160
EPA 8321B	Diuron-d6	61.2	P	30 - 160
EPA 8321B	Endothall-d6	99.3	P	30 - 160
EPA 8321B	Endothall-d6	99.3	P	30 - 160

Quality Assurance Report
Surrogates

Lab Sample ID: 2096780
Field Sample ID: G3SD0095

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Glyphosate 13C 15N	60.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	60.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	76.5	P	30 - 160
EPA 8321B	Primidone-d5	86.4	P	30 - 160
EPA 8321B	Sucralose-d6	126	P	30 - 160
EPA 8321B	Sucralose-d6	126	P	30 - 160

Lab Sample ID: 2096781
Field Sample ID: G3SD0011

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	100	P	39 - 109
EPA 8270E	Tetrachloro-m-xylene	92.7	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	60.9	P	30 - 103
EPA 8276	PCNB	103	P	37 - 143

Lab Sample ID: 2096782
Field Sample ID: G3SD0011

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	112	P	68 - 130
EPA 8270E	Terbufos-d10	95.0	P	61 - 136

Lab Sample ID: 2096783
Field Sample ID: G3SD0096

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	106	P	39 - 109
EPA 8270E	Tetrachloro-m-xylene	93.0	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	66.2	P	30 - 103
EPA 8276	PCNB	108	P	37 - 143

Lab Sample ID: 2096784
Field Sample ID: G3SD0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	106	P	39 - 109
EPA 8270E	Tetrachloro-m-xylene	95.6	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	63.4	P	30 - 103
EPA 8276	PCNB	108	P	37 - 143

Lab Sample ID: 2096785
Field Sample ID: G3SD0097_DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	100	P	39 - 109
EPA 8270E	Tetrachloro-m-xylene	90.7	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	58.7	P	30 - 103
EPA 8276	PCNB	96.1	P	37 - 143

Quality Assurance Report
Surrogates

Lab Sample ID: 2096786
Field Sample ID: G3SD0096

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	104	P	68 - 130
EPA 8270E	Terbufos-d10	87.8	P	61 - 136

Lab Sample ID: 2096787
Field Sample ID: G3SD0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	107	P	68 - 130
EPA 8270E	Terbufos-d10	92.5	P	61 - 136

Lab Sample ID: 2096788
Field Sample ID: G3SD0097_DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	108	P	68 - 130
EPA 8270E	Terbufos-d10	84.5	P	61 - 136

Lab Sample ID: 2096789
Field Sample ID: G3SD0095

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	97.9	P	39 - 109
EPA 8270E	Tetrachloro-m-xylene	90.0	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	55.5	P	30 - 103
EPA 8276	PCNB	103	P	37 - 143

Lab Sample ID: 2096790
Field Sample ID: G3SD0095

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	110	P	68 - 130
EPA 8270E	Terbufos-d10	99.3	P	61 - 136

Quality Assurance Report
Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A92215
Included Lab Sample IDs: 2096741, 2096748, 2096749, 2096750, 2096753

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.2	97.4	P/P	90 - 110
O-Phosphate-P	98.8	98.2	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A92222
Included Lab Sample IDs: 2096739, 2096742, 2096743, 2096744, 2096751

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.5	99.0	P/P	95 - 105
Turbidity	99.0	98.5	P/P	95 - 105

Reference Method: SM 2120 B
Run ID: A92249
Included Lab Sample IDs: 2096739, 2096742, 2096743, 2096744, 2096751

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.9	101	P/P	90 - 115

Reference Method: EPA 8321B
Run ID: A92259
Included Lab Sample IDs: 2096772, 2096776, 2096777, 2096778, 2096780

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	110	112	P/P	60 - 160
Acesulfame K	112	110	P/P	60 - 160
Endothall	103	105	P/P	60 - 160
Endothall	105	107	P/P	60 - 160

Reference Method: SM 5310 B-00
Run ID: A92261
Included Lab Sample IDs: 2096740, 2096745, 2096746, 2096747

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.0	97.2	P/P	90 - 110
Organic Carbon	97.2	96.8	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A92278
Included Lab Sample IDs: 2096772, 2096776, 2096777, 2096778, 2096780

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	93.7	90.4	P/P	60 - 160
AMPA	98.1	93.7	P/P	60 - 160
Glufosinate	92.7	93.5	P/P	60 - 160
Glufosinate	93.5	95.5	P/P	60 - 160
Glyphosate	106	96.5	P/P	60 - 160
Glyphosate	96.5	103	P/P	60 - 160

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Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A92286
Included Lab Sample IDs: 2096791, 2096792, 2096793, 2096794, 2096795

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	100	101	P/P	90 - 110
Barium	99.4	100	P/P	90 - 110
Calcium	102	103	P/P	90 - 110
Calcium	103	103	P/P	90 - 110
Iron	103	104	P/P	90 - 110
Iron	104	103	P/P	90 - 110
Magnesium	102	103	P/P	90 - 110
Magnesium	103	102	P/P	90 - 110
Potassium	102	102	P/P	90 - 110
Potassium	102	102	P/P	90 - 110
Sodium	99.1	99.2	P/P	90 - 110
Sodium	99.2	99.8	P/P	90 - 110
Zinc	101	101	P/P	90 - 110
Zinc	99.9	101	P/P	90 - 110

Reference Method: SM 2320 B-97
Run ID: A92292
Included Lab Sample IDs: 2096739, 2096742, 2096743, 2096744, 2096751

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

Reference Method: SM 4500 F-C-97
Run ID: A92292
Included Lab Sample IDs: 2096739, 2096742, 2096743, 2096744, 2096751

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A92301
Included Lab Sample IDs: 2096740, 2096745, 2096746, 2096747, 2096752

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	101	P/P	90 - 110
NO2NO3-N	101	102	P/P	90 - 110

Reference Method: SM 5310 B-00
Run ID: A92321
Included Lab Sample IDs: 2096752

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.2	94.4	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A92329
Included Lab Sample IDs: 2096791, 2096792, 2096793, 2096794, 2096795

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A92329
Included Lab Sample IDs: 2096791, 2096792, 2096793, 2096794, 2096795

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.5	98.5	P/P	90 - 110
Antimony	99.3	99.3	P/P	90 - 110
Arsenic	100	100	P/P	90 - 110
Boron	99.3	98.4	P/P	90 - 110
Cadmium	98.3	98.4	P/P	90 - 110
Chromium	97.6	98.0	P/P	90 - 110
Lead	98.2	98.4	P/P	90 - 110
Nickel	98.3	98.2	P/P	90 - 110
Selenium	98.3	98.9	P/P	90 - 110
Silver	95.9	95.7	P/P	90 - 110
Thallium	94.7	95.0	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A92336
Included Lab Sample IDs: 2096739, 2096742, 2096743, 2096744, 2096751

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	102	P/P	90 - 110
Chloride	101	101	P/P	90 - 110
Chloride	98.5	98.1	P/P	90 - 110
Sulfate	102	102	P/P	90 - 110
Sulfate	102	102	P/P	90 - 110
Sulfate	99.5	99.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A92337
Included Lab Sample IDs: 2096740, 2096745, 2096746, 2096747, 2096752

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A92340
Included Lab Sample IDs: 2096740, 2096745, 2096746, 2096747

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	103	99.8	P/P	90 - 110
Total-P	99.8	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A92343
Included Lab Sample IDs: 2096752

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

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Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A92368
Included Lab Sample IDs: 2096791, 2096792, 2096793, 2096794

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chromium	96.6	95.3	P/P	90 - 110
Thallium	95.7	93.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A92373
Included Lab Sample IDs: 2096740

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.4	97.6	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A92387
Included Lab Sample IDs: 2096791, 2096792, 2096793, 2096794, 2096795

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Copper	94.3	94.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A92400
Included Lab Sample IDs: 2096745, 2096746, 2096747, 2096752

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	93.4	95.9	P/P	90 - 110
Kjeldahl Nitrogen	95.9	95.0	P/P	90 - 110

Reference Method: EPA 8276
Run ID: A92413
Included Lab Sample IDs: 2096781, 2096783, 2096784, 2096785, 2096789

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	93.1		P	80 - 120
Toxaphene	96.6		P	80 - 120

Reference Method: EPA 8270E
Run ID: A92423
Included Lab Sample IDs: 2096782, 2096786, 2096787, 2096788, 2096790

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	104		P	80 - 120
Alachlor	105		P	80 - 120
Ametryn	105		P	80 - 120
Atrazine	103		P	80 - 120
Atrazine Desethyl	101		P	80 - 120
Azinphos Methyl	100		P	80 - 120
Bromacil	95.6		P	80 - 120
Butylate	102		P	80 - 120
Chlorpyrifos Ethyl	97.7		P	80 - 120
Chlorpyrifos Methyl	99.0		P	80 - 120
Cyanazine	101		P	80 - 120
Demeton	99.0		P	80 - 120
Diazinon	101		P	80 - 120

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Calibration Verification

Reference Method: EPA 8270E
Run ID: A92423
Included Lab Sample IDs: 2096782, 2096786, 2096787, 2096788, 2096790

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dimethenamid	102		P	80 - 120
Disulfoton	96.1		P	80 - 120
Dithiopyr	99.8		P	80 - 120
EPTC	99.3		P	80 - 120
Ethion	97.7		P	80 - 120
Ethoprop	101		P	80 - 120
Fenamiphos	99.4		P	80 - 120
Fipronil	101		P	80 - 120
Fipronil Desulfinyl	104		P	80 - 120
Fipronil Sulfide	98.8		P	80 - 120
Fipronil Sulfone	99.9		P	80 - 120
Fonofos	96.3		P	80 - 120
Hexazinone	96.7		P	80 - 120
Malathion	98.3		P	80 - 120
Metalaxyl	108		P	80 - 120
Metolachlor	104		P	80 - 120
Metribuzin	95.3		P	80 - 120
Mevinphos	100		P	80 - 120
Molinate	99.2		P	80 - 120
Norflurazon	104		P	80 - 120
Oxadiazon	102		P	80 - 120
Parathion Ethyl	98.7		P	80 - 120
Parathion Methyl	102		P	80 - 120
Pendimethalin	99.2		P	80 - 120
Phorate	97.2		P	80 - 120
Prodiamine	95.1		P	80 - 120
Prometon	102		P	80 - 120
Prometryn	107		P	80 - 120
Simazine	98.4		P	80 - 120
Tebuconazole	101		P	80 - 120
Terbufos	97.8		P	80 - 120
Terbuthylazine	101		P	80 - 120

Reference Method: EPA 8321B
Run ID: A92430
Included Lab Sample IDs: 2096772, 2096776, 2096777, 2096778, 2096780

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	103	120	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A92463
Included Lab Sample IDs: 2096772, 2096776, 2096777, 2096778, 2096780

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	60.5	87.7	P/P	50 - 150
2,4-D	87.7	82.8	P/P	50 - 150
Acetaminophen	131	103	P/P	60 - 160
Acetaminophen	137	131	P/P	60 - 160
Bentazon	91.9	91.4	P/P	50 - 160
Bentazon	96.7	91.9	P/P	50 - 160

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Calibration Verification

Reference Method: EPA 8321B
Run ID: A92463
Included Lab Sample IDs: 2096772, 2096776, 2096777, 2096778, 2096780

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carbamazepine	105	71.3	P/P	60 - 150
Carbamazepine	71.3	101	P/P	60 - 150
Diuron	107	107	P/P	60 - 150
Diuron	107	108	P/P	60 - 150
Fenuron	102	98.3	P/P	60 - 150
Fenuron	98.3	88.7	P/P	60 - 150
Fluridone	114	120	P/P	60 - 160
Fluridone	120	114	P/P	60 - 160
Hydrocodone	109	91.9	P/P	60 - 150
Hydrocodone	91.9	86.9	P/P	60 - 150
Ibuprofen	83.0	86.4	P/P	50 - 160
Ibuprofen	86.4	87.7	P/P	50 - 160
Imazapyr	81.3	53.6	P/P	50 - 150
Imazapyr	92.8	81.3	P/P	50 - 150
Imidacloprid	91.8	91.6	P/P	60 - 150
Linuron	90.5	93.1	P/P	60 - 150
Linuron	93.8	90.5	P/P	60 - 150
MCPP	92.1	92.5	P/P	50 - 150
MCPP	92.5	78.6	P/P	50 - 150
Naproxen	67.9	82.5	P/P	50 - 160
Naproxen	82.5	98.4	P/P	50 - 160
Primidone	102	85.4	P/P	60 - 150
Primidone	98.0	102	P/P	60 - 150
Pyraclostrobin	104	98.8	P/P	60 - 150
Pyraclostrobin	96.8	104	P/P	60 - 150
Triclopyr	101	85.6	P/P	50 - 150
Triclopyr	85.6	79.7	P/P	50 - 150

Reference Method: EPA 8321B
Run ID: A92482
Included Lab Sample IDs: 2096772, 2096776

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Diuron	115	115	P/P	60 - 150
Imidacloprid	94.1	92.8	P/P	60 - 150

Reference Method: EPA 8321B
Run ID: A92483
Included Lab Sample IDs: 2096771, 2096773, 2096774, 2096775, 2096779

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	115	121	P/P	60 - 150
Aldicarb	111	117	P/P	60 - 150
Aldicarb Sulfone	111	114	P/P	50 - 150
Aldicarb Sulfoxide	120	122	P/P	50 - 150
Carbaryl	110	111	P/P	60 - 150
Carbofuran	116	114	P/P	50 - 150
Methiocarb	109	104	P/P	50 - 150
Methomyl	106	111	P/P	50 - 150
Oxamyl	116	115	P/P	50 - 150
Propoxur	114	111	P/P	50 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A92489
Included Lab Sample IDs: 2096793, 2096794

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

Reference Method: EPA 8270E
Run ID: A92564
Included Lab Sample IDs: 2096781, 2096783, 2096784, 2096785, 2096789

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	90.7		P	80 - 120
Alpha-BHC	94.7		P	80 - 120
Alpha-Chlordane	94.7		P	80 - 120
Beta-BHC	97.0		P	80 - 120
Bifenthrin	90.8		P	80 - 120
Carbophenothion	83.8		P	80 - 120
Chlorothalonil	89.6		P	80 - 120
Cis-Nonachlor	93.1		P	80 - 120
Cypermethrin	89.6		P	80 - 120
DDD-p,p'	96.7		P	80 - 120
DDE-p,p'	94.8		P	80 - 120
DDT-p,p'	97.3		P	80 - 120
Delta-BHC	102		P	80 - 120
Dicofol	100		P	80 - 120
Dieldrin	98.8		P	80 - 120
Endosulfan I	93.8		P	80 - 120
Endosulfan II	102		P	80 - 120
Endosulfan Sulfate	97.4		P	80 - 120
Endrin	94.7		P	80 - 120
Endrin Aldehyde	93.8		P	80 - 120
Endrin Ketone	98.4		P	80 - 120
Ethalfluralin	101		P	80 - 120
Gamma-BHC	97.9		P	80 - 120
Gamma-Chlordane	94.7		P	80 - 120
Heptachlor	90.0		P	80 - 120
Heptachlor Epoxide	93.9		P	80 - 120
Hexachlorobenzene	98.4		P	80 - 120
Methoxychlor	99.0		P	80 - 120
Mirex	96.0		P	80 - 120
Permethrin	89.2		P	80 - 120
Trans-Nonachlor	94.0		P	80 - 120
Trifluralin	96.1		P	80 - 120

Reference Method: EPA 8270E
Run ID: A92603
Included Lab Sample IDs: 2096782, 2096786, 2096787, 2096788

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bromacil	96.8		P	80 - 120
Metalaxyl	98.8		P	80 - 120
Norflurazon	102		P	80 - 120
Simazine	96.1		P	80 - 120

Quality Assurance Report
Calibration Verification

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

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			Precision		
							LCS	SMP	MS
EPA 180.1 Rev. 2.0	Turbidity							3.47	
	Turbidity							10.4	
EPA 200.7 Rev. 4.4	Barium	100		100	98.9	99.5			1.21
	Calcium	99.8		96.6	99.6				0.861
	Iron	104		105	104	103			1.09
	Magnesium	99.2		100	102				0.671
	Potassium	99.1		97.0	98.3				1.00
	Sodium	97.9		95.6	98.7				1.05
	Zinc	97.7		101	99.8	99.2			1.23
EPA 200.8 Rev. 5.4	Aluminum	98.1		101	100	100			0.473
	Aluminum	103		101	98.8				1.80
	Antimony	97.7		102	103	103			0.545
	Arsenic	101		105	106	105			1.06
	Boron	100		103	104	102			0.126
	Cadmium	97.8		102	103	103			0.889
	Chromium	96.0		97.6	98.5	99.1			0.865
	Copper	92.3		94.2	94.9	95.8			0.711
	Lead	98.0		101	101	102			0.259
	Nickel	99.3		99.6	101	101			1.35
	Selenium	101		102	102	103			0.184
	Silver	98.5		98.0	99.9	100			1.94
	Thallium	99.6		104	104	103			0.0504
EPA 300.0 Rev. 2.1	Chloride	99.5		99.7	99.6			0.369	
	Chloride	96.2		99.2	99.5			1.59	
	Sulfate	99.8		99.9	100			0.566	
	Sulfate	96.4		99.5	98.5			2.09	
EPA 350.1 Rev. 2.0	Ammonia-N	101		101	101				0.0748
	Ammonia-N	101		101	101				0.178
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	110		107	107				0.0393
	Kjeldahl Nitrogen	104		103	104				0.731
EPA 353.2 Rev. 2.0	NO2NO3-N	102		101	101				0.432
	NO2NO3-N	102		102	100				1.13
EPA 365.1 Rev. 2.0	Total-P	103		103	105				1.62
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.7		95.9	97.0				1.14
EPA 8270E	Acetochlor	120	114	109	112		5.09		2.81
	Alachlor	115	111	109	112		2.81		2.11
	Aldrin	61.5	63.5	67.3	71.4		3.18		6.02
	Alpha-BHC	128	117	115	124		8.76		7.70
	Alpha-Chlordane	92.3	87.3	80.9	73.9		5.51		9.10
	Ametryn	101	96.5	104	106		4.32		1.65
	Atrazine	114	103	109	112		10.3		3.05
	Atrazine Desethyl	78.1	70.8	79.4	77.6		9.78		2.35
	Azinphos Methyl	109	94.5	99.3	96.1		14.1		3.26
	Beta-BHC	143	128	123	123		10.6		0.0277
	Bifenthrin	66.5	72.4	92.4	88.0		8.52		4.95
	Bromacil	96.2	91.6	96.2	94.9		4.92		1.20
	Butylate	93.6	84.3	74.9	84.5		10.5		12.0
	Carbophenothion	61.5	76.9	83.1	79.2		22.3		4.84
	Chlorothalonil	187	163	215	209		13.5		2.95
	Chlorpyrifos Ethyl	113	103	113	106		9.88		6.82
	Chlorpyrifos Methyl	108	99.5	100	103		7.97		2.39
	Cis-Nonachlor	91.6	87.9	74.9	79.6		4.10		6.06
	Cyanazine	158	137	127	165		14.0		25.8
	Cypermethrin	72.6	75.8	93.2	101		4.31		7.72

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision		
						LCS	SMP	MS
EPA 8270E	DDD-p,p'	103	95.8	76.5	84.0	7.76		9.36
	DDE-p,p'	93.5	83.9	72.9	79.1	10.9		8.08
	DDT-p,p'	115	106	86.1	91.9	7.92		6.44
	Delta-BHC	161	134	136	119	18.5		13.4
	Demeton	87.2	65.5	69.0	70.9	28.5		2.69
	Diazinon	115	110	109	109	5.29		0.0929
	Dicofol	90.8	88.8	79.9	98.5	2.24		20.8
	Dieldrin	106	98.1	83.4	90.4	7.70		8.10
	Dimethenamid	115	113	108	109	2.09		1.30
	Disulfoton	78.6	74.3	78.3	85.6	5.59		8.91
	Dithiopyr	115	114	109	110	1.24		1.28
	Endosulfan I	103	95.2	83.9	89.9	7.85		6.83
	Endosulfan II	111	103	99.6	98.7	7.76		0.907
	Endosulfan Sulfate	97.4	85.7	122	115	12.8		6.37
	Endrin	105	96.1	87.0	94.2	8.55		7.97
	Endrin Aldehyde	114	102	109	106	11.3		2.19
	Endrin Ketone	95.9	93.6	103	102	2.36		0.562
	EPTC	91.4	82.3	79.5	75.7	10.4		4.88
	Ethalfluralin	107	101	94.2	97.4	6.47		3.35
	Ethion	108	103	99.6	109	4.41		9.27
	Ethoprop	106	99.5	96.2	103	6.55		6.55
	Fenamiphos	54.4	36.5	80.4	75.5	39.4		6.38
	Fipronil	108	108	103	105	0.460		1.44
	Fipronil Desulfinyl	102	99.5	96.5	100	2.71		3.57
	Fipronil Sulfide	104	102	94.8	105	1.97		10.4
	Fipronil Sulfone	105	102	97.1	107	2.87		9.64
	Fonofos	98.8	95.1	92.4	96.0	3.79		3.75
	Gamma-BHC	131	123	129	125	6.25		2.72
	Gamma-Chlordane	92.3	87.3	73.9	80.9	5.51		9.10
	Heptachlor	76.4	74.9	73.4	75.4	1.91		2.63
	Heptachlor Epoxide	95.8	91.4	77.9	84.2	4.73		7.76
	Hexachlorobenzene	84.7	78.8	77.0	77.6	7.24		0.826
	Hexazinone	114	86.0	140	133	28.0		4.52
	Malathion	112	105	103	110	7.34		7.03
	Metalaxyl	38.8	27.9	72.6	45.9	32.6		45.0
	Methoxychlor	133	132	121	131	0.941		8.21
	Metolachlor	113	110	108	108	2.87		0.0794
	Metribuzin	116	104	126	123	10.9		2.30
	Mevinphos	88.3	82.4	85.4	80.6	6.92		5.82
	Mirex	65.9	68.2	73.5	68.8	3.51		6.57
	Molinate	100	90.1	88.7	85.4	10.9		3.78
	Norflurazon	107	100	100	102	6.34		2.00
	Oxadiazon	107	103	102	105	3.46		2.95
	Parathion Ethyl	95.7	96.4	93.6	94.3	0.704		0.776
	Parathion Methyl	99.3	91.9	94.0	89.6	7.76		4.72
	Pendimethalin	103	96.0	93.8	101	7.21		7.00
	Permethrin	71.3	71.4	93.6	88.3	0.234		5.91
	Phorate	92.2	80.2	82.8	78.5	14.0		5.34
	Prodiamine	101	99.7	100	109	1.19		8.20
	Prometon	94.9	78.2	98.8	77.0	19.2		24.8
	Prometryn	88.1	95.3	95.1	99.0	7.86		4.07
	Simazine	106	101	107	103	5.19		4.24
	Tebuconazole	89.7	91.3	97.7	85.7	1.83		13.1
	Terbufos	102	92.1	92.1	98.1	10.2		6.32

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision		
						LCS	SMP	MS
EPA 8270E	Terbuthylazine	111	105	104	109	5.62		4.84
	Trans-Nonachlor	85.8	84.3	76.8	70.1	1.78		9.09
	Trifluralin	105	96.7	93.6	92.7	7.91		1.04
EPA 8276	Chlordane	82.6	87.5	70.4	68.6	5.76		2.49
	Toxaphene	79.3	79.4	62.1	60.6	0.200		2.41
EPA 8321B	2,4-D	113		93.1	117			14.2
	3-Hydroxycarbofuran			107	90.0			17.5
	Acesulfame K	118		83.1	82.1			1.17
	Acetaminophen	125		98.9	101			2.31
	Aldicarb			77.2	52.9			37.3
	Aldicarb Sulfone			115	103			11.2
	Aldicarb Sulfoxide			60.4	51.5			15.9
	AMPA	101		18.2	28.7			8.78
	Bentazon	87.9		45.8	94.5			6.06
	Carbamazepine	102		72.2	80.2			9.76
	Carbaryl			82.8	73.1			12.5
	Carbofuran			77.7	70.4			9.85
	Diuron	94.7		63.8	71.6			9.91
	Endothall	107		77.0	74.5			3.36
	Fenuron	103		78.3	87.3			10.9
	Fluridone	112		70.0	81.4			3.44
	Glufosinate	98.5		39.1	39.5			1.10
	Glyphosate	100		14.7	32.0			10.5
	Hydrocodone	100		96.0	101			4.84
	Ibuprofen	71.7		63.0	70.3			11.0
	Imazapyr	72.3		97.5	115			10.3
	Imidacloprid	101		136	164			2.49
	Linuron	71.0		60.7	59.7			1.71
	MCPP	151		144	176			19.1
	Methiocarb			78.6	69.8			11.8
	Methomyl			81.6	73.6			10.3
	Naproxen	102		62.1	55.0			12.1
	Oxamyl			101	95.3			6.20
	Primidone	93.2		77.4	78.5			1.16
	Propoxur			74.2	67.3			9.84
	Pyraclostrobin	85.9		87.1	90.1			3.35
	Sucralose	94.8		52.8	50.2			5.07
	Triclopyr	98.5		130	154			17.1
SM 2120 B	Color (true)	100					0.203	
SM 2320 B-97	Total Alkalinity	105					0.361	
SM 2540 C-97	TDS						2.86	
SM 4500 F-C-97	Fluoride	98.1		97.8	97.8			0.0
SM 5310 B-00	Organic Carbon	97.2		95.8	94.8			0.677
	Organic Carbon	93.8		94.8	95.0			0.0785

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2096739, 2096742, 2096743, 2096744, 2096751
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2096791, 2096792, 2096793, 2096794, 2096795

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2096791, 2096792, 2096793, 2096794, 2096795
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2096739, 2096742, 2096743, 2096744, 2096751
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2096739, 2096742, 2096743, 2096744, 2096751
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2096740, 2096745, 2096746, 2096747, 2096752
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2096740, 2096745, 2096746, 2096747, 2096752
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2096740, 2096745, 2096746, 2096747, 2096752
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2096740, 2096745, 2096746, 2096747, 2096752
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2096741, 2096748, 2096749, 2096750, 2096753
EPA 8270E / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	2096781, 2096783, 2096784, 2096785, 2096789
EPA 8270E / E31780	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2096782, 2096786, 2096787, 2096788, 2096790
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2096781, 2096783, 2096784, 2096785, 2096789
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	2096771, 2096773, 2096774, 2096775, 2096779
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2096772, 2096776, 2096777, 2096778, 2096780
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	2096772, 2096776, 2096777, 2096778, 2096780
SM 2120 B / E31780	True Color measured at 450 nm	2096739, 2096742, 2096743, 2096744, 2096751
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	2096739, 2096742, 2096743, 2096744, 2096751
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2096739, 2096742, 2096743, 2096744, 2096751
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2096739, 2096742, 2096743, 2096744, 2096751
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2096739, 2096742, 2096743, 2096744, 2096751
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2096740, 2096745, 2096746, 2096747, 2096752

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	06/19/2019			06/19/2019 17:04	Adrian Shelby	2096739, 2096742, 2096743, 2096744, 2096751
EPA 200.7 Rev. 4.4	06/19/2019	06/20/2019 17:40	Elliott D. Healy	06/21/2019 15:05	Betina Topolski	2096791
	06/19/2019	06/20/2019 17:40	Elliott D. Healy	06/21/2019 15:11	Betina Topolski	2096792
	06/19/2019	06/20/2019 17:40	Elliott D. Healy	06/21/2019 15:38	Betina Topolski	2096793
	06/19/2019	06/20/2019 17:40	Elliott D. Healy	06/21/2019 15:46	Betina Topolski	2096794
	06/19/2019	06/20/2019 17:40	Elliott D. Healy	06/21/2019 15:54	Betina Topolski	2096795
EPA 200.8 Rev. 5.4	06/19/2019	06/20/2019 17:40	Elliott D. Healy	06/25/2019 01:08	Robert K Palmer	2096791
	06/19/2019	06/20/2019 17:40	Elliott D. Healy	06/25/2019 01:17	Robert K Palmer	2096792
	06/19/2019	06/20/2019 17:40	Elliott D. Healy	06/25/2019 01:27	Robert K Palmer	2096793
	06/19/2019	06/20/2019 17:40	Elliott D. Healy	06/25/2019 01:36	Robert K Palmer	2096794
	06/19/2019	06/20/2019 17:40	Elliott D. Healy	06/25/2019 01:46	Robert K Palmer	2096795
	06/19/2019	06/20/2019 17:40	Elliott D. Healy	06/25/2019 19:40	Robert K Palmer	2096791
	06/19/2019	06/20/2019 17:40	Elliott D. Healy	06/25/2019 19:49	Robert K Palmer	2096792
	06/19/2019	06/20/2019 17:40	Elliott D. Healy	06/25/2019 19:59	Robert K Palmer	2096793
	06/19/2019	06/20/2019 17:40	Elliott D. Healy	06/25/2019 20:08	Robert K Palmer	2096794
	06/19/2019	06/20/2019 17:40	Elliott D. Healy	06/27/2019 07:56	Robert K Palmer	2096791
	06/19/2019	06/20/2019 17:40	Elliott D. Healy	06/27/2019 08:01	Robert K Palmer	2096792
	06/19/2019	06/20/2019 17:40	Elliott D. Healy	06/27/2019 08:07	Robert K Palmer	2096793
	06/19/2019	06/20/2019 17:40	Elliott D. Healy	06/27/2019 08:13	Robert K Palmer	2096794
	06/19/2019	06/20/2019 17:40	Elliott D. Healy	06/27/2019 08:18	Robert K Palmer	2096795
	06/19/2019	06/26/2019 14:10	Elliott D. Healy	07/01/2019 18:00	Robert K Palmer	2096793
	06/19/2019	06/26/2019 14:10	Elliott D. Healy	07/01/2019 18:10	Robert K Palmer	2096794
EPA 300.0 Rev. 2.1	06/19/2019			06/24/2019 20:51	Lipi Saha	2096739
	06/19/2019			06/24/2019 21:15	Lipi Saha	2096743
	06/19/2019			06/24/2019 21:52	Lipi Saha	2096744
	06/19/2019			06/24/2019 22:04	Lipi Saha	2096751
	06/19/2019			06/27/2019 15:11	Jhamieka S. Greenwood	2096742
EPA 350.1 Rev. 2.0	06/19/2019			06/25/2019 12:35	Ping Hua	2096740
	06/19/2019			06/25/2019 12:36	Ping Hua	2096745
	06/19/2019			06/25/2019 12:54	Ping Hua	2096746
	06/19/2019			06/25/2019 12:56	Ping Hua	2096747
	06/19/2019			06/25/2019 12:57	Ping Hua	2096752
EPA 351.2 Rev. 2.0	06/19/2019	06/25/2019 10:55	Sima Feizi	06/26/2019 14:18	Virginia P. Brown	2096740
	06/19/2019	06/25/2019 12:50	Sima Feizi	06/27/2019 09:13	Joseph Suarez	2096745
	06/19/2019	06/25/2019 12:50	Sima Feizi	06/27/2019 09:21	Joseph Suarez	2096746
	06/19/2019	06/25/2019 12:50	Sima Feizi	06/27/2019 09:22	Joseph Suarez	2096747
	06/19/2019	06/25/2019 12:50	Sima Feizi	06/27/2019 09:24	Joseph Suarez	2096752
EPA 353.2 Rev. 2.0	06/19/2019			06/24/2019 10:45	Beverly Y. Sanders	2096740
	06/19/2019			06/24/2019 10:46	Beverly Y. Sanders	2096745

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 353.2 Rev. 2.0	06/19/2019			06/24/2019 10:47	Beverly Y. Sanders	2096746
	06/19/2019			06/24/2019 10:48	Beverly Y. Sanders	2096747
	06/19/2019			06/24/2019 10:55	Beverly Y. Sanders	2096752
EPA 365.1 Rev. 2.0	06/19/2019	06/24/2019 12:20	Sima Feizi	06/25/2019 14:55	Rosalyn Ballman	2096740
	06/19/2019	06/24/2019 12:20	Sima Feizi	06/25/2019 14:58	Rosalyn Ballman	2096745
	06/19/2019	06/24/2019 12:20	Sima Feizi	06/25/2019 14:59	Rosalyn Ballman	2096746
	06/19/2019	06/24/2019 12:20	Sima Feizi	06/25/2019 15:00	Rosalyn Ballman	2096747
	06/19/2019	06/24/2019 12:20	Sima Feizi	06/25/2019 15:27	Rosalyn Ballman	2096752
EPA 365.1 Rev. 2.0 dissolved	06/19/2019			06/19/2019 16:18	Jhamieka S. Greenwood	2096748
	06/19/2019			06/19/2019 16:19	Jhamieka S. Greenwood	2096749, 2096750
	06/19/2019			06/19/2019 16:20	Jhamieka S. Greenwood	2096753
	06/19/2019			06/19/2019 16:30	Jhamieka S. Greenwood	2096741
EPA 8270E	06/19/2019	06/21/2019 08:30	Rasheda Ghaffari	06/25/2019 16:22	Vandana T. Nagar	2096782
	06/19/2019	06/21/2019 08:30	Rasheda Ghaffari	06/25/2019 16:46	Vandana T. Nagar	2096786
	06/19/2019	06/21/2019 08:30	Rasheda Ghaffari	06/25/2019 17:10	Vandana T. Nagar	2096787
	06/19/2019	06/21/2019 08:30	Rasheda Ghaffari	06/25/2019 17:34	Vandana T. Nagar	2096788
	06/19/2019	06/21/2019 08:30	Rasheda Ghaffari	06/25/2019 18:22	Vandana T. Nagar	2096790
	06/19/2019	06/21/2019 08:30	Rasheda Ghaffari	06/27/2019 14:53	Vandana T. Nagar	2096782
	06/19/2019	06/21/2019 08:30	Rasheda Ghaffari	06/27/2019 15:17	Vandana T. Nagar	2096782
	06/19/2019	06/21/2019 08:30	Rasheda Ghaffari	06/27/2019 15:41	Vandana T. Nagar	2096786
	06/19/2019	06/21/2019 08:30	Rasheda Ghaffari	06/27/2019 16:18	Vandana T. Nagar	2096787
	06/19/2019	06/21/2019 08:30	Rasheda Ghaffari	06/27/2019 16:50	Vandana T. Nagar	2096787
	06/19/2019	06/21/2019 08:30	Rasheda Ghaffari	06/27/2019 17:25	Vandana T. Nagar	2096787
	06/19/2019	06/21/2019 08:30	Rasheda Ghaffari	06/27/2019 17:56	Vandana T. Nagar	2096788
	06/19/2019	06/21/2019 08:30	Rasheda Ghaffari	06/27/2019 18:31	Vandana T. Nagar	2096788
	06/19/2019	06/21/2019 08:30	Rasheda Ghaffari	06/27/2019 19:02	Vandana T. Nagar	2096788
	06/19/2019	06/25/2019 08:00	Rasheda Ghaffari	07/04/2019 00:02	Arthur Maknenko	2096781
	06/19/2019	06/25/2019 08:00	Rasheda Ghaffari	07/04/2019 00:33	Arthur Maknenko	2096783
	06/19/2019	06/25/2019 08:00	Rasheda Ghaffari	07/04/2019 01:03	Arthur Maknenko	2096784
	06/19/2019	06/25/2019 08:00	Rasheda Ghaffari	07/04/2019 01:33	Arthur Maknenko	2096785
	06/19/2019	06/25/2019 08:00	Rasheda Ghaffari	07/04/2019 02:03	Arthur Maknenko	2096789
EPA 8276	06/19/2019	06/25/2019 08:00	Rasheda Ghaffari	06/27/2019 00:49	Dinesh Mishra	2096781
	06/19/2019	06/25/2019 08:00	Rasheda Ghaffari	06/27/2019 01:45	Dinesh Mishra	2096783
	06/19/2019	06/25/2019 08:00	Rasheda Ghaffari	06/27/2019 02:40	Dinesh Mishra	2096784
	06/19/2019	06/25/2019 08:00	Rasheda Ghaffari	06/27/2019 03:36	Dinesh Mishra	2096785
	06/19/2019	06/25/2019 08:00	Rasheda Ghaffari	06/27/2019 04:31	Dinesh Mishra	2096789
EPA 8321B	06/19/2019	06/20/2019 10:45	Rebecca Ware	06/20/2019 14:49	Rebecca Ware	2096772
	06/19/2019	06/20/2019 10:45	Rebecca Ware	06/20/2019 15:25	Rebecca Ware	2096776
	06/19/2019	06/20/2019 10:45	Rebecca Ware	06/20/2019 15:39	Rebecca Ware	2096777
	06/19/2019	06/20/2019 10:45	Rebecca Ware	06/20/2019 15:53	Rebecca Ware	2096778

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Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	06/19/2019	06/20/2019 10:45	Rebecca Ware	06/20/2019 16:07	Rebecca Ware	2096780
	06/19/2019	06/20/2019 10:45	Rebecca Ware	06/21/2019 13:15	Rebecca Ware	2096772
	06/19/2019	06/20/2019 10:45	Rebecca Ware	06/21/2019 13:38	Rebecca Ware	2096776
	06/19/2019	06/20/2019 10:45	Rebecca Ware	06/21/2019 13:49	Rebecca Ware	2096777
	06/19/2019	06/20/2019 10:45	Rebecca Ware	06/21/2019 14:00	Rebecca Ware	2096778
	06/19/2019	06/20/2019 10:45	Rebecca Ware	06/21/2019 14:11	Rebecca Ware	2096780
	06/19/2019	06/20/2019 10:45	Rebecca Ware	06/27/2019 01:14	Rebecca Ware	2096772
	06/19/2019	06/20/2019 10:45	Rebecca Ware	06/27/2019 01:26	Rebecca Ware	2096776
	06/19/2019	06/20/2019 10:45	Rebecca Ware	06/27/2019 01:37	Rebecca Ware	2096777
	06/19/2019	06/20/2019 10:45	Rebecca Ware	06/27/2019 01:49	Rebecca Ware	2096778
	06/19/2019	06/20/2019 10:45	Rebecca Ware	06/27/2019 02:01	Rebecca Ware	2096780
	06/19/2019	06/21/2019 12:30	Hoor Shaik	06/22/2019 08:54	Juyoung Kim	2096772
	06/19/2019	06/21/2019 12:30	Hoor Shaik	06/22/2019 09:29	Juyoung Kim	2096776
	06/19/2019	06/21/2019 12:30	Hoor Shaik	06/22/2019 10:38	Juyoung Kim	2096777
	06/19/2019	06/21/2019 12:30	Hoor Shaik	06/22/2019 11:13	Juyoung Kim	2096778
	06/19/2019	06/21/2019 12:30	Hoor Shaik	06/22/2019 11:47	Juyoung Kim	2096780
	06/19/2019	06/21/2019 12:30	Hoor Shaik	06/30/2019 11:13	Juyoung Kim	2096772
	06/19/2019	06/21/2019 12:30	Hoor Shaik	06/30/2019 11:48	Juyoung Kim	2096776
	06/19/2019	06/25/2019 09:30	Joshua Hartstein	07/01/2019 12:02	Juyoung Kim	2096771
	06/19/2019	06/25/2019 09:30	Joshua Hartstein	07/01/2019 12:37	Juyoung Kim	2096773
	06/19/2019	06/25/2019 09:30	Joshua Hartstein	07/01/2019 13:11	Juyoung Kim	2096774
	06/19/2019	06/25/2019 09:30	Joshua Hartstein	07/01/2019 13:46	Juyoung Kim	2096775
	06/19/2019	06/25/2019 09:30	Joshua Hartstein	07/01/2019 14:20	Juyoung Kim	2096779
SM 2120 B	06/19/2019			06/19/2019 17:21	Madeline Funaro	2096739
	06/19/2019			06/19/2019 17:22	Madeline Funaro	2096742
	06/19/2019			06/19/2019 17:23	Madeline Funaro	2096743, 2096751
	06/19/2019			06/19/2019 17:24	Madeline Funaro	2096744
SM 2320 B-97	06/19/2019			06/22/2019 18:51	Dale L. Simmons	2096742
	06/19/2019			06/22/2019 19:03	Dale L. Simmons	2096743
	06/19/2019			06/22/2019 19:16	Dale L. Simmons	2096744
	06/19/2019			06/22/2019 20:11	Dale L. Simmons	2096751
	06/19/2019			06/22/2019 20:49	Dale L. Simmons	2096739
SM 2540 C-97	06/19/2019			06/24/2019 14:22	Yijie Li	2096739, 2096742, 2096743, 2096744, 2096751
SM 2540 D-97	06/19/2019			06/24/2019 14:22	Yijie Li	2096739, 2096742, 2096743, 2096744, 2096751
SM 4500 F-C-97	06/19/2019			06/22/2019 18:51	Dale L. Simmons	2096742
	06/19/2019			06/22/2019 19:03	Dale L. Simmons	2096743
	06/19/2019			06/22/2019 19:16	Dale L. Simmons	2096744
	06/19/2019			06/22/2019 20:11	Dale L. Simmons	2096751

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Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 4500 F-C-97	06/19/2019			06/22/2019 20:49	Dale L. Simmons	2096739
SM 5310 B-00	06/19/2019			06/21/2019 03:02	Madeline Funaro	2096740
	06/19/2019			06/21/2019 03:15	Madeline Funaro	2096745
	06/19/2019			06/21/2019 03:29	Madeline Funaro	2096746
	06/19/2019			06/21/2019 04:09	Madeline Funaro	2096747
	06/19/2019			06/24/2019 05:42	Madeline Funaro	2096752