Chemical Analysis Report

SO-DIST-2019-07-12-01

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

Event Description: **P Cricks 2**
Request ID: **RQ-2019-07-08-39**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901-3381
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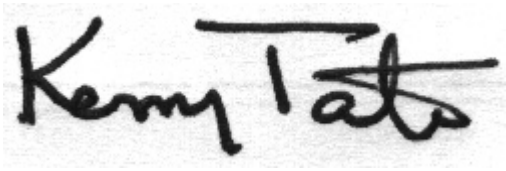
Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 01-AUG-2019 13:14



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: 07/11/2019 09:20**

Field ID: G3SD0011 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2102555	EPA 180.1 Rev. 2.0	Turbidity	7.0		NTU	P367175	
	EPA 300.0 Rev. 2.1	Chloride	140		mg Cl/L	P367340	
		Sulfate	130		mg SO4/L	P367342	
	SM 2120 B	Color (true)	190		PCU	P367164	
	SM 2320 B-97	Total Alkalinity	115		mg CaCO3/L	P367554	
	SM 2540 C-97	TDS	585	A	mg/L	P367545	
	SM 2540 D-97	TSS	12	A	mg/L	P367572	
	SM 4500 F-C-97	Fluoride	0.39		mg F/L	P367559	
2102556	EPA 350.1 Rev. 2.0	Ammonia-N	0.10		mg N/L	P367631	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.7		mg N/L	P367199	
	EPA 353.2 Rev. 2.0	NO2NO3-N	1.2		mg N/L	P367261	
	EPA 365.1 Rev. 2.0	Total-P	0.56		mg P/L	P367198	
	SM 5310 B-00	Organic Carbon	24		mg C/L	P367488	
2102557	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.40		mg P/L	P367173	
2102579	EPA 8321B	Aldicarb	0.020	U	ug/L	P366931	
		Aldicarb Sulfone	0.0020	U	ug/L	P366931	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P366931	
		Carbaryl	0.013		ug/L	P366931	
		Carbofuran	0.0020	U	ug/L	P366931	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P366931	
		Methiocarb	0.0020	U	ug/L	P366931	
		Methomyl	0.0020	U	ug/L	P366931	
		Oxamyl	0.0020	UJ	ug/L	P366931	RPD
		Propoxur	0.0020	U	ug/L	P366931	
2102580		2,4-D	0.095		ug/L	P366931	
		Acesulfame K**	0.10	U	ug/L	P367189	
		AMPA**	1.3		ug/L	P367189	
		Sucralose**	0.085		ug/L	P367189	
		Acetaminophen**	0.0080	U	ug/L	P366931	
		Endothall**	0.25	U	ug/L	P367189	
		Glufosinate**	0.10	U	ug/L	P367189	
		Glyphosate**	3.0		ug/L	P367189	
		Bentazon	0.0032		ug/L	P366931	
		Carbamazepine**	0.0042		ug/L	P366931	
		Diuron	0.77		ug/L	P366931	
		Fenuron	0.098		ug/L	P366931	
		Fluridone**	8.0E-04	U	ug/L	P366931	
		Imazapyr**	0.0074	I	ug/L	P366931	
		Hydrocodone**	0.0020	U	ug/L	P366931	
		Ibuprofen**	0.020	U	ug/L	P366931	
		Imidacloprid	1.5		ug/L	P366931	
		Linuron	0.0040	U	ug/L	P366931	
		MCPP	0.0020	UJ	ug/L	P366931	MS

Field ID: G3SD0011 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2102580	EPA 8321B	Naproxen**	0.0080	U	ug/L	P366931	
		Primidone**	0.0040	U	ug/L	P366931	
		Pyraclostrobin**	0.0020	U	ug/L	P366931	
		Triclopyr**	0.0040	UJ	ug/L	P366931	MS
2102587	EPA 8270E	Aldrin	4.3	U	ng/L	P367263	
		Alpha-BHC	2.2	UJ	ng/L	P367263	LCS
		Alpha-Chlordane	1.1	U	ng/L	P367263	
		Beta-BHC	11	UJ	ng/L	P367263	LCS
		Bifenthrin**	4.3	U	ng/L	P367263	
		Delta-BHC	8.6	U	ng/L	P367263	
		Gamma-BHC	8.6	UJ	ng/L	P367263	LCS
		Carbophenothion	11	U	ng/L	P367263	
		Chlorothalonil	2.2	U	ng/L	P367263	
		Cis-Nonachlor**	1.1	U	ng/L	P367263	
		Cypermethrin	22	U	ng/L	P367263	
		DDD-p,p'	6.5	U	ng/L	P367263	
		DDE-p,p'	6.5	U	ng/L	P367263	
		DDT-p,p'	7.5	UJ	ng/L	P367263	LCS
		Dicofol	32	U	ng/L	P367263	
		Dieldrin	4.3	U	ng/L	P367263	
		Endosulfan I	4.3	U	ng/L	P367263	
		Endosulfan II	4.3	U	ng/L	P367263	
		Endosulfan Sulfate	2.2	U	ng/L	P367263	
		Endrin	2.2	U	ng/L	P367263	
		Endrin Aldehyde	2.2	U	ng/L	P367263	
		Endrin Ketone	2.2	U	ng/L	P367263	
		Ethalfluralin**	3.2	UJ	ng/L	P367263	LCS
		Gamma-Chlordane	1.1	U	ng/L	P367263	
		Heptachlor	1.6	U	ng/L	P367263	
		Heptachlor Epoxide	2.2	U	ng/L	P367263	
		Hexachlorobenzene**	2.2	UJ	ng/L	P367263	LCS
		Methoxychlor	4.3	UJ	ng/L	P367263	LCS
		Mirex	2.2	U	ng/L	P367263	
		Permethrin	11	U	ng/L	P367263	
		Trans-Nonachlor**	1.1	U	ng/L	P367263	
		Trifluralin	2.7	U	ng/L	P367263	
	EPA 8276	Chlordane	5.4	U	ng/L	P367263	
		Toxaphene	32	U	ng/L	P367263	
2102588	EPA 8270E	Acetochlor	0.26	U	ng/L	P367025	
		Alachlor	0.26	U	ng/L	P367025	
		Ametryn	0.63	U	ng/L	P367025	
		Atrazine	1.2	J	ng/L	P367025	
		Atrazine Desethyl	1.6	U	ng/L	P367025	
		Azinphos Methyl	5.3	U	ng/L	P367025	
		Bromacil	950		ng/L	P367025	

Field ID: G3SD0011 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2102588	EPA 8270E	Butylate	0.42	U	ng/L	P367025	
		Chlorpyrifos Ethyl	1.8	J	ng/L	P367025	
		Chlorpyrifos Methyl	0.11	U	ng/L	P367025	
		Cyanazine	3.4	U	ng/L	P367025	
		Demeton	7.4	UJ	ng/L	P367025	RPD
		Diazinon	0.13	U	ng/L	P367025	
		Dimethenamid**	0.11	U	ng/L	P367025	
		Disulfoton	0.53	UJ	ng/L	P367025	RPD
		Dithiopyr**	0.11	U	ng/L	P367025	
		EPTC	1.3	U	ng/L	P367025	
		Ethion	0.16	U	ng/L	P367025	
		Ethoprop	0.11	U	ng/L	P367025	
		Fenamiphos	0.53	U	ng/L	P367025	
		Fipronil	0.26	U	ng/L	P367025	
		Fipronil Desulfinyl**	0.13	U	ng/L	P367025	
		Fipronil Sulfide	0.16	U	ng/L	P367025	
		Fipronil Sulfone	0.16	U	ng/L	P367025	
		Fonofos	0.21	U	ng/L	P367025	
		Hexazinone	0.62	I	ng/L	P367025	
		Malathion	1.1	I	ng/L	P367025	
		Metalaxyl	310		ng/L	P367025	
		Metolachlor	6.6	J	ng/L	P367025	
		Metribuzin	0.79	U	ng/L	P367025	
		Mevinphos	0.53	U	ng/L	P367025	
		Molinate	0.32	U	ng/L	P367025	
		Norflurazon	840		ng/L	P367025	
		Oxadiazon**	0.11	U	ng/L	P367025	
		Parathion Ethyl	0.26	U	ng/L	P367025	
		Parathion Methyl	0.58	U	ng/L	P367025	
		Pendimethalin	1.1	U	ng/L	P367025	
		Phorate	0.26	U	ng/L	P367025	
		Prodiamine**	0.19	U	ng/L	P367025	
		Prometon	0.95	U	ng/L	P367025	
		Prometryn	0.21	U	ng/L	P367025	
		Simazine	3.4	J	ng/L	P367025	
		Tebuconazole**	1.4	I	ng/L	P367025	RPD
		Terbufos	0.11	U	ng/L	P367025	
		Terbuthylazine	0.45	U	ng/L	P367025	
2102595	EPA 200.7 Rev. 4.4	Barium	37.5		ug/L	P367236	
		Calcium	86.8		mg/L	P367236	
		Iron	1.44E+03		ug/L	P367236	
		Magnesium	25.3		mg/L	P367236	
		Potassium	14.0		mg/L	P367236	
		Sodium	60.9		mg/L	P367236	
		Zinc	8.0	I	ug/L	P367530	

Field ID: G3SD0011 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2102595	EPA 200.8 Rev. 5.4	Aluminum	300		ug/L	P367236	
		Antimony	0.55		ug/L	P367236	
		Arsenic	2.77		ug/L	P367236	
		Boron**	80.8		ug/L	P367236	
		Cadmium	0.046	I	ug/L	P367236	
		Chromium	1.0	I	ug/L	P367236	
		Copper	3.19		ug/L	P367236	
		Lead	0.26	I	ug/L	P367530	
		Nickel	1.9	I	ug/L	P367236	
		Selenium	0.38	I	ug/L	P367236	
		Silver	0.010	U	ug/L	P367236	
		Thallium	0.10	U	ug/L	P367236	

Ref. Method and Comment:
EPA 8321B: Refer to the narrative for an explanation of QC Codes.
EPA 8321B: MS accuracy for some analytes is not available due to high concentration of parameter in the spiked sample. 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 values for simazine, atrazine, metolachlor, and chlorpyrifos ethyl due to internal standard recovery exceeding control limits. MS accuracy for hexazinone not assessed due to high content of this parameter in the sample spiked.Refer to the narrative for an explanation of QC Codes.
EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium are unavailable because of high analyte concentration in the QC sample.

Sample Location: Hog Bay @ CR 763 **Collection Date/Time: 07/11/2019 10:00**

Field ID: G3SD0096 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2102558	EPA 180.1 Rev. 2.0	Turbidity	4.6		NTU	P367175	
	EPA 300.0 Rev. 2.1	Chloride	79		mg Cl/L	P367340	
		Sulfate	96		mg SO4/L	P367342	
	SM 2120 B	Color (true)	250		PCU	P367164	
	SM 2320 B-97	Total Alkalinity	91		mg CaCO3/L	P367554	
	SM 2540 C-97	TDS	412		mg/L	P367545	
	SM 2540 D-97	TSS	6	I	mg/L	P367572	
	SM 4500 F-C-97	Fluoride	0.28		mg F/L	P367559	
2102560	EPA 350.1 Rev. 2.0	Ammonia-N	0.18		mg N/L	P367631	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.1		mg N/L	P367199	
	EPA 353.2 Rev. 2.0	NO2NO3-N	1.5		mg N/L	P367261	
	EPA 365.1 Rev. 2.0	Total-P	0.37		mg P/L	P367198	
	SM 5310 B-00	Organic Carbon	28		mg C/L	P367488	
2102562	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.21		mg P/L	P367173	
2102581	EPA 8321B	Aldicarb	0.020	U	ug/L	P366931	
		Aldicarb Sulfone	0.0020	U	ug/L	P366931	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P366931	
		Carbaryl	0.029		ug/L	P366931	
		Carbofuran	0.0020	U	ug/L	P366931	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P366931	
		Methiocarb	0.0020	U	ug/L	P366931	
		Methomyl	0.0020	U	ug/L	P366931	
		Oxamyl	0.0020	U	ug/L	P366931	RPD
		Propoxur	0.0020	U	ug/L	P366931	
2102583		2,4-D	0.19		ug/L	P366931	
		Acesulfame K**	0.10	U	ug/L	P367189	
		AMPA**	0.63		ug/L	P367189	
		Sucralose**	0.074		ug/L	P367189	
		Acetaminophen**	0.0080	U	ug/L	P366931	
		Endothall**	0.25	U	ug/L	P367189	
		Glufosinate**	0.10	U	ug/L	P367189	
		Glyphosate**	0.93		ug/L	P367189	
		Bentazon	8.0E-04	U	ug/L	P366931	
		Carbamazepine**	0.0078		ug/L	P366931	
		Diuron	0.23		ug/L	P366931	
		Fenuron	0.016	U	ug/L	P366931	
		Fluridone**	8.0E-04	U	ug/L	P366931	
		Imazapyr**	0.0040	U	ug/L	P366931	
		Hydrocodone**	0.0020	U	ug/L	P366931	
		Ibuprofen**	0.020	U	ug/L	P366931	
		Imidacloprid	0.84		ug/L	P366931	
		Linuron	0.0040	U	ug/L	P366931	
		MCPP	0.0020	U	ug/L	P366931	MS

Field ID: G3SD0096 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2102583	EPA 8321B	Naproxen**	0.0080	U	ug/L	P366931	
		Primidone**	0.0041	I	ug/L	P366931	
		Pyraclostrobin**	0.0020	U	ug/L	P366931	
		Triclopyr**	0.0040	U	ug/L	P366931	MS
2102589	EPA 8270E	Aldrin	4.2	U	ng/L	P367263	
		Alpha-BHC	2.1	UJ	ng/L	P367263	LCS
		Alpha-Chlordane	1.1	U	ng/L	P367263	
		Beta-BHC	11	UJ	ng/L	P367263	LCS
		Bifenthrin**	4.2	U	ng/L	P367263	
		Delta-BHC	8.4	U	ng/L	P367263	
		Gamma-BHC	8.4	UJ	ng/L	P367263	LCS
		Carbophenothion	11	U	ng/L	P367263	
		Chlorothalonil	2.1	U	ng/L	P367263	
		Cis-Nonachlor**	1.1	U	ng/L	P367263	
		Cypermethrin	21	U	ng/L	P367263	
		DDD-p,p'	6.3	U	ng/L	P367263	
		DDE-p,p'	6.3	U	ng/L	P367263	
		DDT-p,p'	7.4	UJ	ng/L	P367263	LCS
		Dicofol	32	U	ng/L	P367263	
		Dieldrin	4.2	U	ng/L	P367263	
		Endosulfan I	4.2	U	ng/L	P367263	
		Endosulfan II	4.2	U	ng/L	P367263	
		Endosulfan Sulfate	2.1	U	ng/L	P367263	
		Endrin	2.1	U	ng/L	P367263	
		Endrin Aldehyde	2.1	U	ng/L	P367263	
		Endrin Ketone	2.1	U	ng/L	P367263	
		Ethalfluralin**	3.2	UJ	ng/L	P367263	LCS
		Gamma-Chlordane	1.1	U	ng/L	P367263	
		Heptachlor	1.6	U	ng/L	P367263	
		Heptachlor Epoxide	2.1	U	ng/L	P367263	
		Hexachlorobenzene**	2.1	UJ	ng/L	P367263	LCS
		Methoxychlor	4.2	UJ	ng/L	P367263	LCS
		Mirex	2.1	U	ng/L	P367263	
		Permethrin	11	U	ng/L	P367263	
		Trans-Nonachlor**	1.1	U	ng/L	P367263	
		Trifluralin	2.6	U	ng/L	P367263	
	EPA 8276	Chlordane	5.3	U	ng/L	P367263	
		Toxaphene	32	U	ng/L	P367263	
2102591	EPA 8270E	Acetochlor	0.27	U	ng/L	P367025	
		Alachlor	0.27	U	ng/L	P367025	
		Ametryn	0.65	U	ng/L	P367025	
		Atrazine	1.6	J	ng/L	P367025	
		Atrazine Desethyl	1.6	U	ng/L	P367025	
		Azinphos Methyl	5.4	U	ng/L	P367025	
		Bromacil	1.5E+03		ng/L	P367025	

Field ID: G3SD0096 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2102591	EPA 8270E	Butylate	0.43	U	ng/L	P367025	
		Chlorpyrifos Ethyl	3.5		ng/L	P367025	
		Chlorpyrifos Methyl	0.11	U	ng/L	P367025	
		Cyanazine	3.5	U	ng/L	P367025	
		Demeton	7.6	UJ	ng/L	P367025	RPD
		Diazinon	0.19	I	ng/L	P367025	
		Dimethenamid**	0.11	U	ng/L	P367025	
		Disulfoton	0.54	UJ	ng/L	P367025	RPD
		Dithiopyr**	0.11	U	ng/L	P367025	
		EPTC	1.4	U	ng/L	P367025	
		Ethion	0.16	U	ng/L	P367025	
		Ethoprop	0.11	U	ng/L	P367025	
		Fenamiphos	0.54	U	ng/L	P367025	
		Fipronil	0.27	U	ng/L	P367025	
		Fipronil Desulfinyl**	0.14	U	ng/L	P367025	
		Fipronil Sulfide	0.16	U	ng/L	P367025	
		Fipronil Sulfone	0.16	U	ng/L	P367025	
		Fonofos	0.22	U	ng/L	P367025	
		Hexazinone	0.54	U	ng/L	P367025	
		Malathion	0.38	U	ng/L	P367025	
		Metalaxyl	190	J	ng/L	P367025	
		Metolachlor	0.63	I	ng/L	P367025	
		Metribuzin	0.82	U	ng/L	P367025	
		Mevinphos	0.54	U	ng/L	P367025	
		Molinate	0.33	U	ng/L	P367025	
		Norflurazon	1.6E+03		ng/L	P367025	
		Oxadiazon**	0.11	U	ng/L	P367025	
		Parathion Ethyl	0.27	U	ng/L	P367025	
		Parathion Methyl	0.60	U	ng/L	P367025	
		Pendimethalin	1.1	U	ng/L	P367025	
		Phorate	0.27	U	ng/L	P367025	
		Prodiamine**	0.19	U	ng/L	P367025	
		Prometon	0.98	U	ng/L	P367025	
		Prometryn	0.22	U	ng/L	P367025	
		Simazine	1.7	I	ng/L	P367025	
		Tebuconazole**	0.54	U	ng/L	P367025	RPD
		Terbufos	0.11	U	ng/L	P367025	
		Terbuthylazine	0.46	U	ng/L	P367025	
2102596	EPA 200.7 Rev. 4.4	Barium	36.5		ug/L	P367236	
		Calcium	61.9		mg/L	P367236	
		Iron	1.90E+03		ug/L	P367236	
		Magnesium	17.4		mg/L	P367236	
		Potassium	11.5		mg/L	P367236	
		Sodium	40.6		mg/L	P367236	
		Zinc	9.2	I	ug/L	P367530	

Field ID: G3SD0096 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2102596	EPA 200.8 Rev. 5.4	Aluminum	164		ug/L	P367236	
		Antimony	0.92		ug/L	P367236	
		Arsenic	2.63		ug/L	P367236	
		Boron**	82.8		ug/L	P367236	
		Cadmium	0.041	I	ug/L	P367236	
		Chromium	0.89	I	ug/L	P367236	
		Copper	3.06		ug/L	P367236	
		Lead	0.20	U	ug/L	P367236	
		Nickel	2.0		ug/L	P367236	
		Selenium	0.56	I	ug/L	P367236	
		Silver	0.010	U	ug/L	P367236	
		Thallium	0.10	U	ug/L	P367236	

Ref. Method and Comment:
EPA 8321B: MS accuracy for some analytes is not available due to high concentration of parameter in the spiked sample.
EPA 8270E: Refer to the narrative for an explanation of QC Codes.
EPA 8270E: Estimated values for atrazine and metalaxyl due to internal standard recovery exceeding control limits. MS accuracy for hexazinone not assessed due to high content of this parameter in the sample spiked. Refer to the narrative for an explanation of QC Codes.
EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium are unavailable because of high analyte concentration in the QC sample.

Sample Location: MyrtleSlough@PineIsland **Collection Date/Time: 07/11/2019 10:45**

Field ID: G3SD0095 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2102564	EPA 180.1 Rev. 2.0	Turbidity	5.5		NTU	P367175	
	EPA 300.0 Rev. 2.1	Chloride	40		mg Cl/L	P367341	
		Sulfate	30		mg SO4/L	P367343	
	SM 2120 B	Color (true)	220		PCU	P367164	
	SM 2320 B-97	Total Alkalinity	198		mg CaCO3/L	P367673	
	SM 2540 C-97	TDS	356		mg/L	P367545	
	SM 2540 D-97	TSS	2	I	mg/L	P367572	
	SM 4500 F-C-97	Fluoride	0.16		mg F/L	P367674	
2102565	EPA 350.1 Rev. 2.0	Ammonia-N	0.19		mg N/L	P367631	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.8		mg N/L	P367200	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.068		mg N/L	P367261	
	EPA 365.1 Rev. 2.0	Total-P	0.080		mg P/L	P367216	
	SM 5310 B-00	Organic Carbon	26		mg C/L	P367489	
2102566	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.044		mg P/L	P367173	
2102585	EPA 8321B	Aldicarb	0.020	U	ug/L	P366931	
		Aldicarb Sulfone	0.0020	U	ug/L	P366931	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P366931	
		Carbaryl	0.013		ug/L	P366931	
		Carbofuran	0.0020	U	ug/L	P366931	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P366931	
		Methiocarb	0.0020	U	ug/L	P366931	
		Methomyl	0.0020	U	ug/L	P366931	
		Oxamyl	0.0020	U	ug/L	P366931	RPD
		Propoxur	0.0020	U	ug/L	P366931	
2102586		2,4-D	0.045		ug/L	P366931	
		Acesulfame K**	0.10	U	ug/L	P367189	
		AMPA**	0.10	U	ug/L	P367189	
		Sucralose**	0.010	U	ug/L	P367189	
		Acetaminophen**	0.0080	U	ug/L	P366931	
		Endothall**	0.25	U	ug/L	P367189	
		Glufosinate**	0.10	U	ug/L	P367189	
		Glyphosate**	0.10	U	ug/L	P367189	
		Bentazon	8.0E-04	U	ug/L	P366931	
		Carbamazepine**	8.0E-04	U	ug/L	P366931	
		Diuron	0.0020	U	ug/L	P366931	
		Fenuron	0.016	U	ug/L	P366931	
		Fluridone**	0.0042		ug/L	P366931	
		Imazapyr**	0.0081	I	ug/L	P366931	
		Hydrocodone**	0.0020	U	ug/L	P366931	
		Ibuprofen**	0.020	U	ug/L	P366931	
		Imidacloprid	0.0076	I	ug/L	P366931	
		Linuron	0.0040	U	ug/L	P366931	
		MCPP	0.0020	U	ug/L	P366931	MS

Field ID: G3SD0095 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2102586	EPA 8321B	Naproxen**	0.0080	U	ug/L	P366931	
		Primidone**	0.0040	U	ug/L	P366931	
		Pyraclostrobin**	0.0020	U	ug/L	P366931	
		Triclopyr**	0.0040	U	ug/L	P366931	MS
2102593	EPA 8270E	Aldrin	4.3	U	ng/L	P367263	
		Alpha-BHC	2.1	UJ	ng/L	P367263	LCS
		Alpha-Chlordane	1.1	U	ng/L	P367263	
		Beta-BHC	11	UJ	ng/L	P367263	LCS
		Bifenthrin**	4.3	U	ng/L	P367263	
		Delta-BHC	8.5	U	ng/L	P367263	
		Gamma-BHC	8.5	UJ	ng/L	P367263	LCS
		Carbophenothion	11	U	ng/L	P367263	
		Chlorothalonil	2.1	U	ng/L	P367263	
		Cis-Nonachlor**	1.1	U	ng/L	P367263	
		Cypermethrin	21	U	ng/L	P367263	
		DDD-p,p'	6.4	U	ng/L	P367263	
		DDE-p,p'	6.4	U	ng/L	P367263	
		DDT-p,p'	7.5	UJ	ng/L	P367263	LCS
		Dicofol	32	U	ng/L	P367263	
		Dieldrin	4.3	U	ng/L	P367263	
		Endosulfan I	4.3	U	ng/L	P367263	
		Endosulfan II	4.3	U	ng/L	P367263	
		Endosulfan Sulfate	2.1	U	ng/L	P367263	
		Endrin	2.1	U	ng/L	P367263	
		Endrin Aldehyde	2.1	U	ng/L	P367263	
		Endrin Ketone	2.1	U	ng/L	P367263	
		Ethalfluralin**	3.2	UJ	ng/L	P367263	LCS
		Gamma-Chlordane	1.1	U	ng/L	P367263	
		Heptachlor	1.6	U	ng/L	P367263	
		Heptachlor Epoxide	2.1	U	ng/L	P367263	
		Hexachlorobenzene**	2.1	UJ	ng/L	P367263	LCS
		Methoxychlor	4.3	UJ	ng/L	P367263	LCS
		Mirex	2.1	U	ng/L	P367263	
		Permethrin	11	U	ng/L	P367263	
		Trans-Nonachlor**	1.1	U	ng/L	P367263	
		Trifluralin	2.7	U	ng/L	P367263	
	EPA 8276	Chlordane	5.3	U	ng/L	P367263	
		Toxaphene	32	U	ng/L	P367263	
2102594	EPA 8270E	Acetochlor	0.27	U	ng/L	P367025	
		Alachlor	0.27	U	ng/L	P367025	
		Ametryn	0.64	U	ng/L	P367025	
		Atrazine	1.4		ng/L	P367025	
		Atrazine Desethyl	1.6	U	ng/L	P367025	
		Azinphos Methyl	5.3	U	ng/L	P367025	
		Bromacil	0.53	U	ng/L	P367025	

Field ID: G3SD0095 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2102594	EPA 8270E	Butylate	0.42	U	ng/L	P367025	
		Chlorpyrifos Ethyl	0.27	U	ng/L	P367025	
		Chlorpyrifos Methyl	0.11	U	ng/L	P367025	
		Cyanazine	3.4	U	ng/L	P367025	
		Demeton	7.4	UJ	ng/L	P367025	RPD
		Diazinon	0.13	U	ng/L	P367025	
		Dimethenamid**	0.11	U	ng/L	P367025	
		Disulfoton	0.53	UJ	ng/L	P367025	RPD
		Dithiopyr**	0.11	U	ng/L	P367025	
		EPTC	1.3	U	ng/L	P367025	
		Ethion	0.16	U	ng/L	P367025	
		Ethoprop	0.11	U	ng/L	P367025	
		Fenamiphos	0.53	U	ng/L	P367025	
		Fipronil	0.27	U	ng/L	P367025	
		Fipronil Desulfinyl**	0.13	U	ng/L	P367025	
		Fipronil Sulfide	0.16	U	ng/L	P367025	
		Fipronil Sulfone	0.16	U	ng/L	P367025	
		Fonofos	0.21	U	ng/L	P367025	
		Hexazinone	7.1		ng/L	P367025	
		Malathion	0.37	U	ng/L	P367025	
		Metalaxyl	0.32	U	ng/L	P367025	
		Metolachlor	0.53	U	ng/L	P367025	
		Metribuzin	0.80	U	ng/L	P367025	
		Mevinphos	0.53	U	ng/L	P367025	
		Molinate	0.32	U	ng/L	P367025	
		Norflurazon	1.5	I	ng/L	P367025	
		Oxadiazon**	0.11	U	ng/L	P367025	
		Parathion Ethyl	0.27	U	ng/L	P367025	
		Parathion Methyl	0.58	U	ng/L	P367025	
		Pendimethalin	1.1	U	ng/L	P367025	
		Phorate	0.27	U	ng/L	P367025	
		Prodiamine**	0.19	U	ng/L	P367025	
		Prometon	0.95	U	ng/L	P367025	
		Prometryn	0.21	U	ng/L	P367025	
		Simazine	1.1	I	ng/L	P367025	
		Tebuconazole**	0.53	U	ng/L	P367025	RPD
		Terbufos	0.11	U	ng/L	P367025	
		Terbuthylazine	0.45	U	ng/L	P367025	
2102598	EPA 200.7 Rev. 4.4	Barium	42.6		ug/L	P367236	
		Calcium	88.5		mg/L	P367236	
		Iron	3.15E+03		ug/L	P367236	
		Magnesium	6.60		mg/L	P367236	
		Potassium	2.0		mg/L	P367236	
		Sodium	25.5		mg/L	P367236	
		Zinc	5.0	U	ug/L	P367236	

Field ID: G3SD0095 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2102598	EPA 200.8 Rev. 5.4	Aluminum	42		ug/L	P367236	
		Antimony	0.34		ug/L	P367236	
		Arsenic	2.28		ug/L	P367236	
		Boron**	44.6		ug/L	P367236	
		Cadmium	0.020	U	ug/L	P367236	
		Chromium	0.44	I	ug/L	P367236	
		Copper	0.40	U	ug/L	P367236	
		Lead	0.20	U	ug/L	P367236	
		Nickel	0.50	U	ug/L	P367236	
		Selenium	0.20	U	ug/L	P367236	
		Silver	0.010	U	ug/L	P367236	
		Thallium	0.10	U	ug/L	P367236	

Ref. Method and Comment:
EPA 8321B: MS accuracy for some analytes is not available due to high concentration of parameter in the spiked sample.
EPA 8270E: Refer to the narrative for an explanation of QC Codes.
EPA 8270E: MS accuracy for hexazinone not assessed due to high content of this parameter in the sample spiked. Refer to the narrative for an explanation of QC Codes.
EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium are unavailable because of high analyte concentration in the QC sample.

Sample Location: Myrtle Slough @ SR 31 **Collection Date/Time: 07/11/2019 11:40**

Field ID: G3SD0097 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2102559	EPA 180.1 Rev. 2.0	Turbidity	4.6		NTU	P367175	
	EPA 300.0 Rev. 2.1	Chloride	150		mg Cl/L	P367340	
		Sulfate	93		mg SO4/L	P367342	
	SM 2120 B	Color (true)	50	A	PCU	P367164	
	SM 2320 B-97	Total Alkalinity	178		mg CaCO3/L	P367554	
	SM 2540 C-97	TDS	550		mg/L	P367545	
	SM 2540 D-97	TSS	4	I	mg/L	P367572	
	SM 4500 F-C-97	Fluoride	0.22		mg F/L	P367559	
2102561	EPA 350.1 Rev. 2.0	Ammonia-N	0.050		mg N/L	P367631	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.87		mg N/L	P367200	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.16		mg N/L	P367261	
	EPA 365.1 Rev. 2.0	Total-P	0.059		mg P/L	P367216	
	SM 5310 B-00	Organic Carbon	13		mg C/L	P367488	
2102563	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.032		mg P/L	P367173	
2102582	EPA 8321B	Aldicarb	0.020	U	ug/L	P366931	
		Aldicarb Sulfone	0.0020	U	ug/L	P366931	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P366931	
		Carbaryl	0.0020	U	ug/L	P366931	
		Carbofuran	0.0020	U	ug/L	P366931	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P366931	
		Methiocarb	0.0020	U	ug/L	P366931	
		Methomyl	0.0020	U	ug/L	P366931	
		Oxamyl	0.0020	U	ug/L	P366931	RPD
		Propoxur	0.0020	U	ug/L	P366931	
2102584		2,4-D	0.019		ug/L	P366931	
		Acesulfame K**	0.10	U	ug/L	P367189	
		AMPA**	0.33	I	ug/L	P367189	
		Sucralose**	0.010	U	ug/L	P367189	
		Acetaminophen**	0.0080	U	ug/L	P366931	
		Endothall**	0.25	U	ug/L	P367189	
		Glufosinate**	0.10	U	ug/L	P367189	
		Glyphosate**	0.10	U	ug/L	P367189	
		Bentazon	0.0024	IJ	ug/L	P366931	
		Carbamazepine**	8.0E-04	U	ug/L	P366931	
		Diuron	0.031		ug/L	P366931	
		Fenuron	0.016	U	ug/L	P366931	
		Fluridone**	0.017		ug/L	P366931	
		Imazapyr**	0.029		ug/L	P366931	
		Hydrocodone**	0.0020	U	ug/L	P366931	
		Ibuprofen**	0.020	U	ug/L	P366931	
		Imidacloprid	0.41		ug/L	P366931	
		Linuron	0.0040	U	ug/L	P366931	
		MCPP	0.0020	U	ug/L	P366931	MS

Field ID: G3SD0097 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2102584	EPA 8321B	Naproxen**	0.0080	U	ug/L	P366931	
		Primidone**	0.0040	U	ug/L	P366931	
		Pyraclostrobin**	0.0020	U	ug/L	P366931	
		Triclopyr**	0.0040	U	ug/L	P366931	MS
2102590	EPA 8270E	Aldrin	4.3	U	ng/L	P367263	
		Alpha-BHC	2.2	UJ	ng/L	P367263	LCS
		Alpha-Chlordane	1.1	U	ng/L	P367263	
		Beta-BHC	11	UJ	ng/L	P367263	LCS
		Bifenthrin**	4.3	U	ng/L	P367263	
		Delta-BHC	8.6	U	ng/L	P367263	
		Gamma-BHC	8.6	UJ	ng/L	P367263	LCS
		Carbophenothion	11	U	ng/L	P367263	
		Chlorothalonil	2.2	U	ng/L	P367263	
		Cis-Nonachlor**	1.1	U	ng/L	P367263	
		Cypermethrin	22	U	ng/L	P367263	
		DDD-p,p'	6.5	U	ng/L	P367263	
		DDE-p,p'	6.5	U	ng/L	P367263	
		DDT-p,p'	7.5	UJ	ng/L	P367263	LCS
		Dicofol	32	U	ng/L	P367263	
		Dieldrin	4.3	U	ng/L	P367263	
		Endosulfan I	4.3	U	ng/L	P367263	
		Endosulfan II	4.3	U	ng/L	P367263	
		Endosulfan Sulfate	2.2	U	ng/L	P367263	
		Endrin	2.2	U	ng/L	P367263	
		Endrin Aldehyde	2.2	U	ng/L	P367263	
		Endrin Ketone	2.2	U	ng/L	P367263	
		Ethalfluralin**	3.2	UJ	ng/L	P367263	LCS
		Gamma-Chlordane	1.1	U	ng/L	P367263	
		Heptachlor	1.6	U	ng/L	P367263	
		Heptachlor Epoxide	2.2	U	ng/L	P367263	
		Hexachlorobenzene**	2.2	UJ	ng/L	P367263	LCS
		Methoxychlor	4.3	UJ	ng/L	P367263	LCS
		Mirex	2.2	U	ng/L	P367263	
		Permethrin	11	U	ng/L	P367263	
		Trans-Nonachlor**	1.1	U	ng/L	P367263	
		Trifluralin	2.7	U	ng/L	P367263	
	EPA 8276	Chlordane	5.4	U	ng/L	P367263	
		Toxaphene	32	U	ng/L	P367263	
2102592	EPA 8270E	Acetochlor	0.26	U	ng/L	P367025	
		Alachlor	0.26	U	ng/L	P367025	
		Ametryn	0.62	U	ng/L	P367025	
		Atrazine	8.5		ng/L	P367025	
		Atrazine Desethyl	1.6	U	ng/L	P367025	
		Azinphos Methyl	5.2	U	ng/L	P367025	
		Bromacil	97		ng/L	P367025	

Field ID: G3SD0097 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2102592	EPA 8270E	Butylate	0.41	U	ng/L	P367025	
		Chlorpyrifos Ethyl	0.26	U	ng/L	P367025	
		Chlorpyrifos Methyl	0.10	U	ng/L	P367025	
		Cyanazine	3.4	U	ng/L	P367025	
		Demeton	7.3	UJ	ng/L	P367025	RPD
		Diazinon	0.13	U	ng/L	P367025	
		Dimethenamid**	0.10	U	ng/L	P367025	
		Disulfoton	0.52	UJ	ng/L	P367025	RPD
		Dithiopyr**	0.10	U	ng/L	P367025	
		EPTC	1.3	U	ng/L	P367025	
		Ethion	0.16	U	ng/L	P367025	
		Ethoprop	0.10	U	ng/L	P367025	
		Fenamiphos	0.52	U	ng/L	P367025	
		Fipronil	0.26	U	ng/L	P367025	
		Fipronil Desulfinyl**	0.13	U	ng/L	P367025	
		Fipronil Sulfide	0.16	U	ng/L	P367025	
		Fipronil Sulfone	0.16	U	ng/L	P367025	
		Fonofos	0.21	U	ng/L	P367025	
		Hexazinone	6.0		ng/L	P367025	
		Malathion	0.36	U	ng/L	P367025	
		Metalaxyl	93		ng/L	P367025	
		Metolachlor	8.1		ng/L	P367025	
		Metribuzin	0.78	U	ng/L	P367025	
		Mevinphos	0.52	U	ng/L	P367025	
		Molinate	0.31	U	ng/L	P367025	
		Norflurazon	560		ng/L	P367025	
		Oxadiazon**	0.10	U	ng/L	P367025	
		Parathion Ethyl	0.26	U	ng/L	P367025	
		Parathion Methyl	0.57	U	ng/L	P367025	
		Pendimethalin	1.0	U	ng/L	P367025	
		Phorate	0.26	U	ng/L	P367025	
		Prodiamine**	0.18	U	ng/L	P367025	
		Prometon	0.93	U	ng/L	P367025	
		Prometryn	0.21	U	ng/L	P367025	
		Simazine	9.8		ng/L	P367025	
		Tebuconazole**	0.52	U	ng/L	P367025	RPD
		Terbufos	0.10	U	ng/L	P367025	
		Terbuthylazine	0.44	U	ng/L	P367025	
2102597	EPA 200.7 Rev. 4.4	Barium	54.1		ug/L	P367236	
		Calcium	113		mg/L	P367236	
		Iron	290		ug/L	P367236	
		Magnesium	14.5		mg/L	P367236	
		Potassium	10.2		mg/L	P367236	
		Sodium	70.2		mg/L	P367236	
		Zinc	5.0	U	ug/L	P367236	

Field ID: G3SD0097 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2102597	EPA 200.8 Rev. 5.4	Aluminum	110		ug/L	P367236	
		Antimony	0.30		ug/L	P367236	
		Arsenic	1.01		ug/L	P367236	
		Boron**	82.0		ug/L	P367236	
		Cadmium	0.020	U	ug/L	P367236	
		Chromium	0.49	I	ug/L	P367236	
		Copper	0.84		ug/L	P367236	
		Lead	0.20	U	ug/L	P367236	
		Nickel	1.6	I	ug/L	P367236	
		Selenium	0.63	I	ug/L	P367236	
		Silver	0.010	U	ug/L	P367236	
		Thallium	0.10	U	ug/L	P367236	

Ref. Method and Comment:
EPA 8321B: MS accuracy for some analytes is not available due to high concentration of parameter in the spiked sample.
EPA 8270E: Refer to the narrative for an explanation of QC Codes.
EPA 8270E: MS accuracy for hexazinone not assessed due to high content of this parameter in the sample spiked. Refer to the narrative for an explanation of QC Codes.
EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium are unavailable because of high analyte concentration in the QC sample.

Quality Assurance Report
Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P367175

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P367236

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	11	I	ug/L

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P367530

Component	Result	Code	Units
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P367236

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	0.26	I	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: P367530

Component	Result	Code	Units
Lead	0.20	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P367340

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: P367341

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P367342

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P367343

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P367631

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P367199

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P367200

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P367261

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P367198

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P367216

Component	Result	Code	Units
Total-P	0.005	U	mg P/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P367173

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

Reference Method: EPA 8270E
Batch ID: P367025

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	2.3	I	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
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P367263

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: P367263

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

Reference Method: EPA 8321B
Batch ID: P366931

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
3-Hydroxycarbofuran	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Aldicarb	0.020	U	ug/L
Aldicarb Sulfone	0.0020	U	ug/L
Aldicarb Sulfoxide	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Carbamazepine	8.0E-04	U	ug/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P366931

Component	Result	Code	Units
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	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
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Oxamyl	0.0020	U	ug/L
Primidone	0.0040	U	ug/L
Propoxur	0.0020	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P367189

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: P367164

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P367554

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

Reference Method: SM 2320 B-97
Batch ID: P367673

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

Quality Assurance Report
Method Blank Results

Reference Method: SM 2540 C-97
Batch ID: P367545

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P367572

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P367559

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P367674

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P367488

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

Reference Method: SM 5310 B-00
Batch ID: P367489

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: P367236

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	98.5		P	85 - 115
Calcium	103		P	85 - 115
Iron	101		P	85 - 115
Magnesium	101		P	85 - 115
Potassium	99.8		P	85 - 115
Sodium	101		P	85 - 115
Zinc	96.2		P	85 - 115

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P367530

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Zinc	96.0		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P367236

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	95.5		P	85 - 115
Antimony	95.4		P	85 - 115
Arsenic	99.5		P	85 - 115
Boron	95.5		P	85 - 115
Cadmium	96.8		P	85 - 115
Chromium	97.0		P	85 - 115
Copper	98.4		P	85 - 115
Lead	98.2		P	85 - 115
Nickel	98.8		P	85 - 115
Selenium	109		P	85 - 115
Silver	103		P	85 - 115
Thallium	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P367530

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Lead	91.0		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P367340

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P367341

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P367342

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P367343

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P367631

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	106		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P367199

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P367200

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P367261

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: P367198

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P367216

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P367173

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P367025

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	87.0	105	P/P	69 - 122
Alachlor	84.6	99.3	P/P	71 - 120
Ametryn	84.8	95.8	P/P	47 - 138
Atrazine	89.1	109	P/P	74 - 124
Atrazine Desethyl	128	136	P/P	38 - 138
Azinphos Methyl	98.6	118	P/P	69 - 154
Bromacil	73.6	84.8	P/P	39 - 121
Butylate	53.1	56.3	P/P	27 - 87.0
Chlorpyrifos Ethyl	85.0	102	P/P	69 - 118
Chlorpyrifos Methyl	91.5	108	P/P	70 - 120
Cyanazine	169	190	P/P	20 - 250
Demeton	49.5	80.0	P/P	39 - 118
Diazinon	101	121	P/P	68 - 127
Dimethenamid	73.2	87.0	P/P	66 - 125
Disulfoton	55.6	93.4	P/P	52 - 126
Dithiopyr	89.6	106	P/P	67 - 127
EPTC	53.1	52.7	P/P	24 - 88.0
Ethion	52.5	56.9	P/P	51 - 132
Ethoprop	89.7	108	P/P	58 - 117
Fenamiphos	75.3	89.7	P/P	38 - 139
Fipronil	88.2	105	P/P	61 - 124
Fipronil Desulfinyl	80.0	92.4	P/P	47 - 120
Fipronil Sulfide	80.3	92.3	P/P	56 - 119
Fipronil Sulfone	69.1	74.4	P/P	50 - 117
Fonofos	95.6	113	P/P	60 - 121
Hexazinone	93.9	103	P/P	55 - 137
Malathion	83.6	96.2	P/P	66 - 126
Metalaxyl	90.2	100	P/P	33 - 140
Metolachlor	79.2	92.8	P/P	69 - 119
Metribuzin	171	218	P/P	31 - 238
Mevinphos	84.4	96.5	P/P	42 - 113
Molinate	66.2	75.8	P/P	32 - 96.0
Norflurazon	83.1	99.2	P/P	54 - 123
Oxadiazon	78.6	96.4	P/P	63 - 128
Parathion Ethyl	87.7	98.1	P/P	72 - 111
Parathion Methyl	95.3	107	P/P	74 - 126
Pendimethalin	86.0	96.1	P/P	61 - 131
Phorate	69.7	85.7	P/P	51 - 115
Prodiamine	39.3	43.3	P/P	38 - 144
Prometon	74.2	88.2	P/P	54 - 119
Prometryn	83.9	93.9	P/P	63 - 120
Simazine	104	120	P/P	75 - 126
Tebuconazole	50.7	59.3	P/P	20 - 119
Terbufos	84.0	106	P/P	64 - 116
Terbuthylazine	87.6	101	P/P	73 - 117

Reference Method: EPA 8270E
Batch ID: P367263

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	88.5	89.3	P/P	20 - 93.0
Alpha-BHC	136	139	F/F	57 - 119

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P367263

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Alpha-Chlordane	100	101	P/P	58 - 112
Beta-BHC	150	161	F/F	56 - 149
Bifenthrin	98.5	99.6	P/P	30 - 134
Carbophenothion	113	111	P/P	26 - 147
Chlorothalonil	152	144	P/P	20 - 155
Cis-Nonachlor	100	99.7	P/P	54 - 115
Cypermethrin	103	99.7	P/P	40 - 137
DDD-p,p'	107	109	P/P	65 - 129
DDE-p,p'	103	103	P/P	57 - 116
DDT-p,p'	141	143	F/F	53 - 133
Delta-BHC	155	152	P/P	59 - 163
Dicofol	107	120	P/P	24 - 138
Dieldrin	100	103	P/P	60 - 120
Endosulfan I	96.6	96.8	P/P	64 - 118
Endosulfan II	111	102	P/P	58 - 142
Endosulfan Sulfate	110	110	P/P	60 - 127
Endrin	102	107	P/P	59 - 122
Endrin Aldehyde	103	96.5	P/P	49 - 132
Endrin Ketone	103	104	P/P	64 - 121
Ethalfluralin	129	129	F/F	60 - 126
Gamma-BHC	135	143	P/F	56 - 141
Gamma-Chlordane	100	100	P/P	56 - 110
Heptachlor	90.0	90.4	P/P	46 - 96.0
Heptachlor Epoxide	99.1	100	P/P	61 - 112
Hexachlorobenzene	104	111	F/F	44 - 98.0
Methoxychlor	148	148	F/F	63 - 134
Mirex	93.2	95.2	P/P	45 - 100
Permethrin	93.3	91.2	P/P	53 - 115
Trans-Nonachlor	98.4	98.7	P/P	47 - 110
Trifluralin	127	130	P/P	39 - 142

Reference Method: EPA 8276
Batch ID: P367263

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	72.4	90.1	P/P	43 - 128
Toxaphene	66.3	76.6	P/P	38 - 140

Reference Method: EPA 8321B
Batch ID: P366931

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	138		P	40 - 150
3-Hydroxycarbofuran	101		P	40 - 150
Acetaminophen	93.9		P	30 - 150
Aldicarb	112		P	30 - 150
Aldicarb Sulfone	105		P	40 - 150
Aldicarb Sulfoxide	72.0		P	40 - 150
Bentazon	108		P	30 - 150
Carbamazepine	114		P	40 - 150
Carbaryl	85.9		P	40 - 150
Carbofuran	105		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P366931

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Diuron	103		P	40 - 150
Fenuron	111		P	40 - 150
Fluridone	99.0		P	40 - 150
Hydrocodone	99.4		P	40 - 150
Ibuprofen	84.4		P	30 - 150
Imazapyr	108		P	40 - 150
Imidacloprid	98.9		P	40 - 150
Linuron	87.5		P	40 - 150
MCPP	145		P	40 - 150
Methiocarb	80.0		P	40 - 150
Methomyl	85.9		P	40 - 150
Naproxen	104		P	40 - 150
Oxamyl	99.9		P	40 - 150
Primidone	85.3		P	40 - 150
Propoxur	95.3		P	40 - 150
Pyraclostrobin	96.2		P	30 - 150
Triclopyr	137		P	30 - 150

Reference Method: EPA 8321B
Batch ID: P367189

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	123		P	40 - 150
AMPA	98.7		P	40 - 150
Endothall	105		P	40 - 150
Glufosinate	94.4		P	40 - 150
Glyphosate	96.1		P	40 - 140
Sucralose	85.9		P	40 - 150

Reference Method: SM 2120 B
Batch ID: P367164

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.3		P	85 - 115

Reference Method: SM 2320 B-97
Batch ID: P367554

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	98 - 106

Reference Method: SM 2320 B-97
Batch ID: P367673

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	98 - 106

Reference Method: SM 4500 F-C-97
Batch ID: P367559

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.4		P	92 - 103

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P367674

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.9		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P367488

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.8		P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P367489

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.4		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P367236

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2102435	Barium	98.2	95.6	P/P	80 - 120
2102435	Iron	103	101	P/P	80 - 120
2102435	Magnesium	103		P	80 - 120
2102435	Potassium	102		P	80 - 120
2102435	Sodium	104		P	80 - 120
2102435	Zinc	96.2	93.4	P/P	80 - 120
2102439	Barium	97.2		P	80 - 120
2102439	Iron	102		P	80 - 120
2102439	Magnesium	103		P	80 - 120
2102439	Potassium	99.3		P	80 - 120
2102439	Sodium	102		P	80 - 120
2102439	Zinc	95.8		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P367530

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2103738	Zinc	97.3	96.0	P/P	80 - 120
2103882	Zinc	100		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P367236

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2102435	Aluminum	94.5	94.6	P/P	75 - 125
2102435	Antimony	100	99.2	P/P	75 - 125
2102435	Arsenic	104	103	P/P	75 - 125
2102435	Boron	101	102	P/P	75 - 125
2102435	Cadmium	100	102	P/P	75 - 125
2102435	Chromium	96.1	96.2	P/P	75 - 125
2102435	Copper	93.8	93.1	P/P	75 - 125
2102435	Lead	101	101	P/P	75 - 125
2102435	Nickel	96.5	94.9	P/P	75 - 125
2102435	Selenium	107	105	P/P	75 - 125
2102435	Silver	104	103	P/P	75 - 125
2102435	Thallium	109	110	P/P	75 - 125
2102439	Aluminum	91.7		P	75 - 125
2102439	Antimony	95.6		P	75 - 125
2102439	Arsenic	98.3		P	75 - 125
2102439	Boron	99.0		P	75 - 125
2102439	Cadmium	97.2		P	75 - 125
2102439	Chromium	97.3		P	75 - 125
2102439	Copper	94.2		P	75 - 125
2102439	Lead	97.5		P	75 - 125
2102439	Nickel	95.9		P	75 - 125
2102439	Selenium	104		P	75 - 125
2102439	Silver	103		P	75 - 125
2102439	Thallium	104		P	75 - 125

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P367530

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2103738	Lead	90.7	90.2	P/P	80 - 120
2103882	Lead	89.4		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P367340

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2101819	Chloride	101		P	90 - 110
2101913	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P367341

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2102612	Chloride	101		P	90 - 110
2102723	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P367342

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2101819	Sulfate	101		P	90 - 110
2101913	Sulfate	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P367343

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2102612	Sulfate	101		P	90 - 110
2102723	Sulfate	104		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P367631

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2102479	Ammonia-N	104	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P367199

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2102480	Kjeldahl Nitrogen	101	98.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P367200

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2102561	Kjeldahl Nitrogen	101	105	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P367261

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2102481	NO2NO3-N	102	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P367198

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2102480	Total-P	99.0	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P367216

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2102561	Total-P	102	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P367173

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2102620	O-Phosphate-P	93.4	94.3	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P367025

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2101178	Acetochlor	91.3	96.0	P/P	63 - 129
2101178	Alachlor	86.7	90.5	P/P	65 - 127
2101178	Ametryn	87.3	90.1	P/P	40 - 164
2101178	Atrazine	102	103	P/P	66 - 135
2101178	Atrazine Desethyl	109	110	P/P	14 - 157
2101178	Azinphos Methyl	97.1	103	P/P	49 - 180
2101178	Bromacil	73.8	81.0	P/P	48 - 130
2101178	Butylate	48.5	63.4	P/P	10 - 94.0
2101178	Chlorpyrifos Ethyl	93.3	96.6	P/P	58 - 123
2101178	Chlorpyrifos Methyl	92.9	99.3	P/P	58 - 125
2101178	Cyanazine	186	188	P/P	24 - 253
2101178	Demeton	79.2	77.9	P/P	25 - 149
2101178	Diazinon	111	107	P/P	59 - 144
2101178	Dimethenamid	72.5	82.7	P/P	46 - 139
2101178	Disulfoton	92.6	90.8	P/P	54 - 132
2101178	Dithiopyr	91.5	97.1	P/P	64 - 130
2101178	EPTC	55.8	65.2	P/P	10 - 92.0
2101178	Ethion	37.9	48.1	P/P	30 - 148
2101178	Ethoprop	99.2	100	P/P	50 - 130
2101178	Fenamiphos	77.2	93.9	P/P	49 - 142
2101178	Fipronil	89.9	97.3	P/P	46 - 140
2101178	Fipronil Desulfinyl	82.3	88.8	P/P	30 - 121
2101178	Fipronil Sulfide	76.5	88.4	P/P	31 - 136
2101178	Fipronil Sulfone	73.9	79.0	P/P	16 - 136
2101178	Fonofos	103	109	P/P	55 - 129
2101178	Malathion	81.7	87.7	P/P	56 - 135
2101178	Metalaxyl	90.9	95.5	P/P	54 - 135
2101178	Metolachlor	83.1	84.3	P/P	51 - 140

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P367025

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2101178	Metribuzin	217	222	P/P	45 - 254
2101178	Mevinphos	93.6	89.1	P/P	33 - 131
2101178	Molinate	74.8	79.4	P/P	14 - 98.0
2101178	Norflurazon	87.7	89.5	P/P	34 - 136
2101178	Oxadiazon	71.1	84.8	P/P	67 - 116
2101178	Parathion Ethyl	92.3	94.2	P/P	66 - 118
2101178	Parathion Methyl	92.1	96.5	P/P	64 - 136
2101178	Pendimethalin	93.6	94.9	P/P	59 - 144
2101178	Phorate	91.2	76.6	P/P	42 - 130
2101178	Prodiamine	44.3	49.8	P/P	42 - 148
2101178	Prometon	75.3	83.5	P/P	59 - 134
2101178	Prometryn	85.8	89.2	P/P	54 - 135
2101178	Simazine	99.4	105	P/P	53 - 156
2101178	Tebuconazole	36.7	51.2	P/P	10 - 131
2101178	Terbufos	104	99.5	P/P	57 - 131
2101178	Terbuthylazine	92.4	95.4	P/P	68 - 125

Reference Method: EPA 8270E
Batch ID: P367263

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2102801	Aldrin	57.1	52.9	P/P	25 - 92.0
2102801	Alpha-BHC	125	109	P/P	49 - 130
2102801	Alpha-Chlordane	73.6	71.8	P/P	50 - 115
2102801	Beta-BHC	133	115	P/P	43 - 157
2102801	Bifenthrin	79.5	70.2	P/P	46 - 116
2102801	Carbophenothion	93.7	112	P/P	27 - 180
2102801	Chlorothalonil	27.6	27.7	P/P	10 - 216
2102801	Cis-Nonachlor	73.7	72.6	P/P	55 - 112
2102801	Cypermethrin	91.0	86.8	P/P	40 - 153
2102801	DDD-p,p'	80.4	82.1	P/P	53 - 128
2102801	DDE-p,p'	72.1	66.0	P/P	48 - 116
2102801	DDT-p,p'	114	107	P/P	47 - 128
2102801	Delta-BHC	142	137	P/P	51 - 196
2102801	Dicofol	84.9	79.7	P/P	10 - 147
2102801	Dieldrin	79.2	81.2	P/P	48 - 128
2102801	Endosulfan I	84.7	86.6	P/P	58 - 126
2102801	Endosulfan II	98.8	89.9	P/P	50 - 150
2102801	Endosulfan Sulfate	97.6	96.1	P/P	56 - 130
2102801	Endrin	89.7	86.8	P/P	50 - 126
2102801	Endrin Aldehyde	70.9	66.4	P/P	12 - 145
2102801	Endrin Ketone	104	92.0	P/P	59 - 132
2102801	Ethalfluralin	97.8	92.3	P/P	65 - 122
2102801	Gamma-BHC	134	128	P/P	50 - 155
2102801	Gamma-Chlordane	72.0	69.8	P/P	50 - 112
2102801	Heptachlor	62.8	58.5	P/P	41 - 98.0
2102801	Heptachlor Epoxide	77.6	78.0	P/P	55 - 117
2102801	Hexachlorobenzene	72.7	62.6	P/P	47 - 91.0
2102801	Methoxychlor	121	118	P/P	55 - 133
2102801	Mirex	60.9	55.0	P/P	44 - 101
2102801	Permethrin	70.5	66.6	P/P	52 - 124
2102801	Trans-Nonachlor	70.3	67.0	P/P	53 - 99.0

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P367263

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2102801	Trifluralin	92.0	86.4	P/P	10 - 201

Reference Method: EPA 8276
Batch ID: P367263

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2102587	Chlordane	82.6	78.5	P/P	34 - 136
2102587	Toxaphene	62.8	68.5	P/P	22 - 152

Reference Method: EPA 8321B
Batch ID: P366931

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2102579	3-Hydroxycarbofuran	91.0	85.2	P/P	40 - 150
2102579	Aldicarb	67.3	76.5	P/P	30 - 150
2102579	Aldicarb Sulfone	101	91.6	P/P	40 - 150
2102579	Aldicarb Sulfoxide	47.6	43.0	P/P	40 - 150
2102579	Carbaryl	62.1	57.3	P/P	40 - 150
2102579	Carbofuran	78.1	72.2	P/P	40 - 150
2102579	Methiocarb	70.0	67.1	P/P	40 - 150
2102579	Methomyl	60.9	66.9	P/P	40 - 150
2102579	Oxamyl	97.7	71.2	P/P	40 - 150
2102579	Propoxur	70.7	66.3	P/P	40 - 150
2102580	Acetaminophen	96.7	99.6	P/P	30 - 150
2102580	Bentazon	52.6	61.5	P/P	30 - 150
2102580	Carbamazepine	98.2	98.0	P/P	40 - 150
2102580	Fenuron	74.7	75.7	P/P	40 - 150
2102580	Fluridone	103	103	P/P	40 - 150
2102580	Hydrocodone	103	97.6	P/P	40 - 150
2102580	Ibuprofen	106	92.3	P/P	30 - 150
2102580	Imazapyr	77.2	76.0	P/P	40 - 150
2102580	Linuron	86.4	84.2	P/P	40 - 150
2102580	MCPP	219	191	F/F	40 - 150
2102580	Naproxen	121	101	P/P	40 - 150
2102580	Primidone	113	87.5	P/P	40 - 150
2102580	Pyraclostrobin	110	104	P/P	30 - 150
2102580	Triclopyr	185	177	F/F	30 - 150

Reference Method: EPA 8321B
Batch ID: P367189

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2101887	Acesulfame K	115	122	P/P	40 - 150
2101887	AMPA	86.9	96.5	P/P	40 - 150
2101887	Endothall	96.4	103	P/P	40 - 150
2101887	Glufosinate	89.5	99.2	P/P	40 - 150
2101887	Glyphosate	85.5	96.0	P/P	40 - 140
2101887	Sucralose	87.4	106	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P367559

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2102698	Fluoride	95.9	95.3	P/P	89 - 106

Reference Method: SM 4500 F-C-97
Batch ID: P367674

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2100961	Fluoride	106	105	P/P	89 - 106

Reference Method: SM 5310 B-00
Batch ID: P367488

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2102054	Organic Carbon	97.8	98.4	P/P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P367489

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2102895	Organic Carbon	98.3	99.0	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P367175

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2102612	Turbidity	7.07	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P367236

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2102435	Barium	2.62	Spike	P	0 - 20
2102435	Calcium	0.108	Spike	P	0 - 20
2102435	Iron	1.47	Spike	P	0 - 20
2102435	Magnesium	1.10	Spike	P	0 - 20
2102435	Potassium	0.860	Spike	P	0 - 20
2102435	Sodium	0.152	Spike	P	0 - 20
2102435	Zinc	2.94	Spike	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P367530

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2103738	Zinc	1.33	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P367236

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2102435	Aluminum	0.0877	Spike	P	0 - 20
2102435	Antimony	1.08	Spike	P	0 - 20
2102435	Arsenic	0.932	Spike	P	0 - 20
2102435	Boron	1.29	Spike	P	0 - 20
2102435	Cadmium	1.52	Spike	P	0 - 20
2102435	Chromium	0.0930	Spike	P	0 - 20
2102435	Copper	0.673	Spike	P	0 - 20
2102435	Lead	0.219	Spike	P	0 - 20
2102435	Nickel	1.52	Spike	P	0 - 20
2102435	Selenium	1.53	Spike	P	0 - 20
2102435	Silver	0.643	Spike	P	0 - 20
2102435	Thallium	0.512	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P367530

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2103738	Lead	0.532	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P367340

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2101819	Chloride	0.0509	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P367341

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2102612	Chloride	0.101	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P367342

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2101819	Sulfate	1.55	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P367343

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2102612	Sulfate	0.645	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P367631

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2102479	Ammonia-N	1.13	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P367199

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2102480	Kjeldahl Nitrogen	3.35	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P367200

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2102561	Kjeldahl Nitrogen	2.41	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P367261

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2102481	NO2NO3-N	0.793	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P367198

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2102480	Total-P	5.17	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P367216

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2102561	Total-P	1.58	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P367173

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2102620	O-Phosphate-P	0.804	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P367025

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2101178	Acetochlor	5.02	Spike	P	0 - 30
2101178	Alachlor	4.28	Spike	P	0 - 30
2101178	Ametryn	3.11	Spike	P	0 - 30
2101178	Atrazine	1.81	Spike	P	0 - 30
2101178	Atrazine Desethyl	0.755	Spike	P	0 - 30
2101178	Azinphos Methyl	5.96	Spike	P	0 - 30
2101178	Bromacil	9.25	Spike	P	0 - 30
2101178	Butylate	26.6	Spike	P	0 - 30
2101178	Chlorpyrifos Ethyl	3.44	Spike	P	0 - 30
2101178	Chlorpyrifos Methyl	6.67	Spike	P	0 - 30
2101178	Cyanazine	1.01	Spike	P	0 - 30
2101178	Demeton	1.69	Spike	P	0 - 30
2101178	Diazinon	4.08	Spike	P	0 - 30
2101178	Dimethenamid	13.1	Spike	P	0 - 30
2101178	Disulfoton	1.96	Spike	P	0 - 30
2101178	Dithiopyr	5.98	Spike	P	0 - 30
2101178	EPTC	15.7	Spike	P	0 - 30
2101178	Ethion	23.6	Spike	P	0 - 30
2101178	Ethoprop	1.25	Spike	P	0 - 30
2101178	Fenamiphos	19.5	Spike	P	0 - 30
2101178	Fipronil	7.88	Spike	P	0 - 30
2101178	Fipronil Desulfinyl	7.56	Spike	P	0 - 30
2101178	Fipronil Sulfide	14.5	Spike	P	0 - 30
2101178	Fipronil Sulfone	6.76	Spike	P	0 - 30
2101178	Fonofos	5.42	Spike	P	0 - 30
2101178	Hexazinone	0.441	Spike	P	0 - 30
2101178	Malathion	7.11	Spike	P	0 - 30
2101178	Metalaxyl	5.03	Spike	P	0 - 30
2101178	Metolachlor	1.49	Spike	P	0 - 30
2101178	Metribuzin	2.54	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P367025

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2101178	Mevinphos	4.91	Spike	P	0 - 30
2101178	Molinate	5.98	Spike	P	0 - 30
2101178	Norflurazon	2.07	Spike	P	0 - 30
2101178	Oxadiazon	17.5	Spike	P	0 - 30
2101178	Parathion Ethyl	2.01	Spike	P	0 - 30
2101178	Parathion Methyl	4.67	Spike	P	0 - 30
2101178	Pendimethalin	1.36	Spike	P	0 - 30
2101178	Phorate	17.5	Spike	P	0 - 30
2101178	Prodiamine	11.6	Spike	P	0 - 30
2101178	Prometon	10.4	Spike	P	0 - 30
2101178	Prometryn	3.86	Spike	P	0 - 30
2101178	Simazine	4.98	Spike	P	0 - 30
2101178	Tebuconazole	33.1	Spike	F	0 - 30
2101178	Terbufos	4.43	Spike	P	0 - 30
2101178	Terbuthylazine	3.17	Spike	P	0 - 30
LFB	Acetochlor	18.7	LCS	P	0 - 30
LFB	Alachlor	15.9	LCS	P	0 - 30
LFB	Ametryn	12.2	LCS	P	0 - 30
LFB	Atrazine	20.1	LCS	P	0 - 30
LFB	Atrazine Desethyl	6.29	LCS	P	0 - 30
LFB	Azinphos Methyl	18.2	LCS	P	0 - 30
LFB	Bromacil	14.2	LCS	P	0 - 30
LFB	Butylate	5.79	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	17.9	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	16.2	LCS	P	0 - 30
LFB	Cyanazine	11.8	LCS	P	0 - 30
LFB	Demeton	47.1	LCS	F	0 - 30
LFB	Diazinon	17.3	LCS	P	0 - 30
LFB	Dimethenamid	17.2	LCS	P	0 - 30
LFB	Disulfoton	50.7	LCS	F	0 - 30
LFB	Dithiopyr	16.4	LCS	P	0 - 30
LFB	EPTC	0.703	LCS	P	0 - 30
LFB	Ethion	7.90	LCS	P	0 - 30
LFB	Ethoprop	18.2	LCS	P	0 - 30
LFB	Fenamiphos	17.5	LCS	P	0 - 30
LFB	Fipronil	17.1	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	14.4	LCS	P	0 - 30
LFB	Fipronil Sulfide	13.9	LCS	P	0 - 30
LFB	Fipronil Sulfone	7.28	LCS	P	0 - 30
LFB	Fonofos	16.4	LCS	P	0 - 30
LFB	Hexazinone	9.42	LCS	P	0 - 30
LFB	Malathion	14.0	LCS	P	0 - 30
LFB	Metalaxyl	10.3	LCS	P	0 - 30
LFB	Metolachlor	15.9	LCS	P	0 - 30
LFB	Metribuzin	24.6	LCS	P	0 - 30
LFB	Mevinphos	13.4	LCS	P	0 - 30
LFB	Molinate	13.6	LCS	P	0 - 30
LFB	Norflurazon	17.6	LCS	P	0 - 30
LFB	Oxadiazon	20.3	LCS	P	0 - 30
LFB	Parathion Ethyl	11.3	LCS	P	0 - 30
LFB	Parathion Methyl	11.5	LCS	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P367025

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Pendimethalin	11.0	LCS	P	0 - 30
LFB	Phorate	20.6	LCS	P	0 - 30
LFB	Prodiamine	9.66	LCS	P	0 - 30
LFB	Prometon	17.3	LCS	P	0 - 30
LFB	Prometryn	11.2	LCS	P	0 - 30
LFB	Simazine	14.4	LCS	P	0 - 30
LFB	Tebuconazole	15.5	LCS	P	0 - 30
LFB	Terbufos	23.1	LCS	P	0 - 30
LFB	Terbuthylazine	14.0	LCS	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P367263

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2102801	Aldrin	7.69	Spike	P	0 - 30
2102801	Alpha-BHC	13.0	Spike	P	0 - 30
2102801	Alpha-Chlordane	2.52	Spike	P	0 - 30
2102801	Beta-BHC	14.7	Spike	P	0 - 30
2102801	Bifenthrin	12.4	Spike	P	0 - 30
2102801	Carbophenothion	17.6	Spike	P	0 - 30
2102801	Chlorothalonil	0.621	Spike	P	0 - 30
2102801	Cis-Nonachlor	1.54	Spike	P	0 - 30
2102801	Cypermethrin	4.71	Spike	P	0 - 30
2102801	DDD-p,p'	2.07	Spike	P	0 - 30
2102801	DDE-p,p'	8.91	Spike	P	0 - 30
2102801	DDT-p,p'	6.18	Spike	P	0 - 30
2102801	Delta-BHC	3.35	Spike	P	0 - 30
2102801	Dicofol	6.24	Spike	P	0 - 30
2102801	Dieldrin	2.48	Spike	P	0 - 30
2102801	Endosulfan I	2.18	Spike	P	0 - 30
2102801	Endosulfan II	9.36	Spike	P	0 - 30
2102801	Endosulfan Sulfate	1.49	Spike	P	0 - 30
2102801	Endrin	3.28	Spike	P	0 - 30
2102801	Endrin Aldehyde	6.50	Spike	P	0 - 30
2102801	Endrin Ketone	12.4	Spike	P	0 - 30
2102801	Ethalfluralin	5.76	Spike	P	0 - 30
2102801	Gamma-BHC	3.90	Spike	P	0 - 30
2102801	Gamma-Chlordane	3.11	Spike	P	0 - 30
2102801	Heptachlor	7.11	Spike	P	0 - 30
2102801	Heptachlor Epoxide	0.481	Spike	P	0 - 30
2102801	Hexachlorobenzene	15.0	Spike	P	0 - 30
2102801	Methoxychlor	2.32	Spike	P	0 - 30
2102801	Mirex	10.1	Spike	P	0 - 30
2102801	Permethrin	5.61	Spike	P	0 - 30
2102801	Trans-Nonachlor	4.84	Spike	P	0 - 30
2102801	Trifluralin	6.22	Spike	P	0 - 30
LFB	Aldrin	0.824	LCS	P	0 - 30
LFB	Alpha-BHC	2.23	LCS	P	0 - 30
LFB	Alpha-Chlordane	0.337	LCS	P	0 - 30
LFB	Beta-BHC	7.17	LCS	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P367263

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Bifenthrin	1.15	LCS	P	0 - 30
LFB	Carbophenothion	1.78	LCS	P	0 - 30
LFB	Chlorothalonil	5.80	LCS	P	0 - 30
LFB	Cis-Nonachlor	0.707	LCS	P	0 - 30
LFB	Cypermethrin	3.40	LCS	P	0 - 30
LFB	DDD-p,p'	1.52	LCS	P	0 - 30
LFB	DDE-p,p'	0.347	LCS	P	0 - 30
LFB	DDT-p,p'	1.47	LCS	P	0 - 30
LFB	Delta-BHC	1.98	LCS	P	0 - 30
LFB	Dicofol	11.1	LCS	P	0 - 30
LFB	Dieldrin	2.59	LCS	P	0 - 30
LFB	Endosulfan I	0.122	LCS	P	0 - 30
LFB	Endosulfan II	8.24	LCS	P	0 - 30
LFB	Endosulfan Sulfate	0.194	LCS	P	0 - 30
LFB	Endrin	4.20	LCS	P	0 - 30
LFB	Endrin Aldehyde	6.26	LCS	P	0 - 30
LFB	Endrin Ketone	0.835	LCS	P	0 - 30
LFB	Ethalfluralin	0.296	LCS	P	0 - 30
LFB	Gamma-BHC	6.15	LCS	P	0 - 30
LFB	Gamma-Chlordane	0.0842	LCS	P	0 - 30
LFB	Heptachlor	0.527	LCS	P	0 - 30
LFB	Heptachlor Epoxide	1.02	LCS	P	0 - 30
LFB	Hexachlorobenzene	6.10	LCS	P	0 - 30
LFB	Methoxychlor	0.325	LCS	P	0 - 30
LFB	Mirex	2.09	LCS	P	0 - 30
LFB	Permethrin	2.27	LCS	P	0 - 30
LFB	Trans-Nonachlor	0.295	LCS	P	0 - 30
LFB	Trifluralin	2.68	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P367263

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2102587	Chlordane	5.15	Spike	P	0 - 30
2102587	Toxaphene	8.61	Spike	P	0 - 30
LFB	Chlordane	21.8	LCS	P	0 - 30
LFB	Toxaphene	14.4	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P366931

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2102579	3-Hydroxycarbofuran	6.60	Spike	P	0 - 30
2102579	Aldicarb	12.7	Spike	P	0 - 30
2102579	Aldicarb Sulfone	10.1	Spike	P	0 - 30
2102579	Aldicarb Sulfoxide	10.3	Spike	P	0 - 30
2102579	Carbaryl	6.22	Spike	P	0 - 30
2102579	Carbofuran	7.80	Spike	P	0 - 30
2102579	Methiocarb	4.23	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P366931

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2102579	Methomyl	9.41	Spike	P	0 - 30
2102579	Oxamyl	31.4	Spike	F	0 - 30
2102579	Propoxur	6.38	Spike	P	0 - 30
2102580	2,4-D	2.80	Spike	P	0 - 30
2102580	Acetaminophen	2.92	Spike	P	0 - 30
2102580	Bentazon	12.2	Spike	P	0 - 30
2102580	Carbamazepine	0.174	Spike	P	0 - 30
2102580	Diuron	4.21	Spike	P	0 - 30
2102580	Fenuron	0.516	Spike	P	0 - 30
2102580	Fluridone	0.444	Spike	P	0 - 30
2102580	Hydrocodone	5.11	Spike	P	0 - 30
2102580	Ibuprofen	13.8	Spike	P	0 - 30
2102580	Imazapyr	1.39	Spike	P	0 - 30
2102580	Imidacloprid	5.75	Spike	P	0 - 30
2102580	Linuron	2.53	Spike	P	0 - 30
2102580	MCPP	13.8	Spike	P	0 - 30
2102580	Naproxen	17.4	Spike	P	0 - 30
2102580	Primidone	25.2	Spike	P	0 - 30
2102580	Pyraclostrobin	6.16	Spike	P	0 - 30
2102580	Triclopyr	4.44	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P367189

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2101887	Acesulfame K	5.82	Spike	P	0 - 30
2101887	AMPA	10.4	Spike	P	0 - 30
2101887	Endothall	6.65	Spike	P	0 - 30
2101887	Glufosinate	10.3	Spike	P	0 - 30
2101887	Glyphosate	11.6	Spike	P	0 - 30
2101887	Sucralose	19.3	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P367164

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2102559	Color (true)	2.19	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P367554

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2102698	Total Alkalinity	0.672	Sample	P	0 - 2.8

Quality Assurance Report
Precision

Reference Method: SM 2320 B-97
Batch ID: P367673

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2100961	Total Alkalinity	1.46	Sample	P	0 - 2.8

Reference Method: SM 2540 C-97
Batch ID: P367545

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2102555	TDS	4.44	Sample	P	0 - 10

Reference Method: SM 2540 D-97
Batch ID: P367572

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2102555	TSS	6.45	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P367559

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2102698	Fluoride	0.476	Spike	P	0 - 2.5

Reference Method: SM 4500 F-C-97
Batch ID: P367674

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2100961	Fluoride	0.511	Spike	P	0 - 2.5

Reference Method: SM 5310 B-00
Batch ID: P367488

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2102054	Organic Carbon	0.401	Spike	P	0 - 20

Reference Method: SM 5310 B-00
Batch ID: P367489

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2102895	Organic Carbon	0.575	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: 2102579
Field Sample ID: G3SD0011

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	75.6	P	30 - 160

Lab Sample ID: 2102580
Field Sample ID: G3SD0011

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	104	P	30 - 160
EPA 8321B	Acetaminophen-d4	104	P	30 - 160
EPA 8321B	Carbamazepine-d10	75.8	P	30 - 160
EPA 8321B	Diuron-d6	83.0	P	30 - 160
EPA 8321B	Endothall-d6	54.9	P	30 - 160
EPA 8321B	Endothall-d6	54.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	76.4	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	76.4	P	30 - 160
EPA 8321B	Ibuprofen-d3	121	P	30 - 160
EPA 8321B	Primidone-d5	105	P	30 - 160
EPA 8321B	Sucralose-d6	59.5	P	30 - 160
EPA 8321B	Sucralose-d6	59.5	P	30 - 160

Lab Sample ID: 2102581
Field Sample ID: G3SD0096

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	84.4	P	30 - 160

Lab Sample ID: 2102582
Field Sample ID: G3SD0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	102	P	30 - 160

Lab Sample ID: 2102583
Field Sample ID: G3SD0096

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	89.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	109	P	30 - 160
EPA 8321B	Carbamazepine-d10	72.8	P	30 - 160
EPA 8321B	Diuron-d6	82.6	P	30 - 160
EPA 8321B	Endothall-d6	54.4	P	30 - 160
EPA 8321B	Endothall-d6	54.4	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	64.0	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	64.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	123	P	30 - 160
EPA 8321B	Primidone-d5	103	P	30 - 160
EPA 8321B	Sucralose-d6	85.4	P	30 - 160
EPA 8321B	Sucralose-d6	85.4	P	30 - 160

Lab Sample ID: 2102584
Field Sample ID: G3SD0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits

Quality Assurance Report
Surrogates

Lab Sample ID: 2102584
Field Sample ID: G3SD0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	112	P	30 - 160
EPA 8321B	Acetaminophen-d4	107	P	30 - 160
EPA 8321B	Carbamazepine-d10	78.8	P	30 - 160
EPA 8321B	Diuron-d6	85.7	P	30 - 160
EPA 8321B	Endothall-d6	68.5	P	30 - 160
EPA 8321B	Endothall-d6	68.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	48.8	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	48.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	121	P	30 - 160
EPA 8321B	Primidone-d5	108	P	30 - 160
EPA 8321B	Sucralose-d6	62.2	P	30 - 160
EPA 8321B	Sucralose-d6	62.2	P	30 - 160

Lab Sample ID: 2102585
Field Sample ID: G3SD0095

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	81.8	P	30 - 160

Lab Sample ID: 2102586
Field Sample ID: G3SD0095

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	157	P	30 - 160
EPA 8321B	Acetaminophen-d4	98.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	63.8	P	30 - 160
EPA 8321B	Diuron-d6	71.9	P	30 - 160
EPA 8321B	Endothall-d6	72.5	P	30 - 160
EPA 8321B	Endothall-d6	72.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	53.1	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	53.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	116	P	30 - 160
EPA 8321B	Primidone-d5	87.6	P	30 - 160
EPA 8321B	Sucralose-d6	159	P	30 - 160
EPA 8321B	Sucralose-d6	159	P	30 - 160

Lab Sample ID: 2102587
Field Sample ID: G3SD0011

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	83.8	P	39 - 109
EPA 8270E	Tetrachloro-m-xylene	72.4	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	56.9	P	30 - 103
EPA 8276	PCNB	81.4	P	37 - 143

Lab Sample ID: 2102588
Field Sample ID: G3SD0011

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	94.2	P	68 - 130
EPA 8270E	Terbufos-d10	66.9	P	61 - 136

Quality Assurance Report
Surrogates

Lab Sample ID: 2102589
Field Sample ID: G3SD0096

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	69.9	P	39 - 109
EPA 8270E	Tetrachloro-m-xylene	64.2	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	47.7	P	30 - 103
EPA 8276	PCNB	72.5	P	37 - 143

Lab Sample ID: 2102590
Field Sample ID: G3SD0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	70.3	P	39 - 109
EPA 8270E	Tetrachloro-m-xylene	65.5	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	50.1	P	30 - 103
EPA 8276	PCNB	74.7	P	37 - 143

Lab Sample ID: 2102591
Field Sample ID: G3SD0096

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	90.7	P	68 - 130
EPA 8270E	Terbufos-d10	88.0	P	61 - 136

Lab Sample ID: 2102592
Field Sample ID: G3SD0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	101	P	68 - 130
EPA 8270E	Terbufos-d10	113	P	61 - 136

Lab Sample ID: 2102593
Field Sample ID: G3SD0095

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	88.3	P	39 - 109
EPA 8270E	Tetrachloro-m-xylene	85.1	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	59.3	P	30 - 103
EPA 8276	PCNB	106	P	37 - 143

Lab Sample ID: 2102594
Field Sample ID: G3SD0095

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	85.3	P	68 - 130
EPA 8270E	Terbufos-d10	83.5	P	61 - 136

Quality Assurance Report
Calibration Verification

Reference Method: SM 2120 B
Run ID: A92738
Included Lab Sample IDs: 2102555, 2102558, 2102559, 2102564

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	101	P/P	90 - 115
Color (true)	101	101	P/P	90 - 115
Color (true)	98.8	100	P/P	90 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A92740
Included Lab Sample IDs: 2102557, 2102562, 2102563, 2102566

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.2	97.3	P/P	90 - 110
O-Phosphate-P	98.1	97.2	P/P	90 - 110
O-Phosphate-P	98.1	98.4	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A92741
Included Lab Sample IDs: 2102555, 2102558, 2102559, 2102564

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	101	102	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A92780
Included Lab Sample IDs: 2102556, 2102560, 2102561, 2102565

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A92781
Included Lab Sample IDs: 2102556, 2102560, 2102561, 2102565

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	99.9	P/P	90 - 110
Kjeldahl Nitrogen	99.9	96.3	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A92785
Included Lab Sample IDs: 2102556, 2102560, 2102561, 2102565

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

Reference Method: EPA 8321B
Run ID: A92791
Included Lab Sample IDs: 2102580, 2102583, 2102584, 2102586

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	112	125	P/P	60 - 160

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A92791
Included Lab Sample IDs: 2102580, 2102583, 2102584, 2102586

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endothall	101	111	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A92793
Included Lab Sample IDs: 2102580, 2102583, 2102584, 2102586

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	98.7	93.1	P/P	60 - 160
Glufosinate	93.5	94.1	P/P	60 - 160
Glyphosate	98.1	86.9	P/P	60 - 160

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A92796
Included Lab Sample IDs: 2102555, 2102558, 2102559, 2102564

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

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A92805
Included Lab Sample IDs: 2102595, 2102596, 2102597, 2102598

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	101	101	P/P	90 - 110
Calcium	102	104	P/P	90 - 110
Iron	103	104	P/P	90 - 110
Magnesium	103	103	P/P	90 - 110
Potassium	101	103	P/P	90 - 110
Sodium	99.5	101	P/P	90 - 110
Zinc	101	102	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A92848
Included Lab Sample IDs: 2102580, 2102583, 2102584, 2102586

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	108	110	P/P	50 - 150
3-Hydroxycarbofuran	129	128	P/P	60 - 150
3-Hydroxycarbofuran	84.1	129	P/P	60 - 150
Acetaminophen	112	116	P/P	60 - 160
Aldicarb	126	123	P/P	60 - 150
Aldicarb	77.7	126	P/P	60 - 150
Aldicarb Sulfone	128	125	P/P	50 - 150
Aldicarb Sulfone	82.7	128	P/P	50 - 150
Aldicarb Sulfoxide	124	125	P/P	50 - 150
Aldicarb Sulfoxide	74.1	124	P/P	50 - 150

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Reference Method: EPA 8321B
Run ID: A92848
Included Lab Sample IDs: 2102580, 2102583, 2102584, 2102586

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bentazon	98.7	99.4	P/P	50 - 160
Carbamazepine	120	128	P/P	60 - 150
Carbaryl	121	122	P/P	60 - 150
Carbaryl	80.6	121	P/P	60 - 150
Carbofuran	130	131	P/P	50 - 150
Carbofuran	87.9	130	P/P	50 - 150
Diuron	120	126	P/P	60 - 150
Fenuron	122	122	P/P	60 - 150
Fluridone	117	118	P/P	60 - 160
Hydrocodone	113	108	P/P	60 - 150
Ibuprofen	103	102	P/P	50 - 160
Imazapyr	99.6	101	P/P	50 - 150
Imidacloprid	105	107	P/P	60 - 150
Imidacloprid	106	105	P/P	60 - 150
Linuron	120	117	P/P	60 - 150
MCPP	112	115	P/P	50 - 150
Methiocarb	119	127	P/P	50 - 150
Methiocarb	79.3	119	P/P	50 - 150
Methomyl	131	127	P/P	50 - 150
Methomyl	81.0	131	P/P	50 - 150
Naproxen	144	126	P/P	50 - 160
Oxamyl	129	126	P/P	50 - 150
Oxamyl	72.2	129	P/P	50 - 150
Primidone	118	126	P/P	60 - 150
Propoxur	133	132	P/P	50 - 150
Propoxur	80.8	133	P/P	50 - 150
Pyraclostrobin	125	126	P/P	60 - 150
Triclopyr	110	105	P/P	50 - 150

Reference Method: SM 5310 B-00
Run ID: A92860
Included Lab Sample IDs: 2102556, 2102560, 2102561, 2102565

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	101	103	P/P	90 - 110
Organic Carbon	102	101	P/P	90 - 110

Reference Method: SM 2320 B-97
Run ID: A92887
Included Lab Sample IDs: 2102555, 2102558, 2102559

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

Reference Method: SM 4500 F-C-97
Run ID: A92887
Included Lab Sample IDs: 2102555, 2102558, 2102559

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	99.1	P/P	90 - 110

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Reference Method: EPA 350.1 Rev. 2.0
Run ID: A92906
Included Lab Sample IDs: 2102556, 2102560, 2102561, 2102565

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	105	105	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A92916
Included Lab Sample IDs: 2102595, 2102596

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Zinc	98.4	99.9	P/P	90 - 110

Reference Method: SM 2320 B-97
Run ID: A92919
Included Lab Sample IDs: 2102564

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

Reference Method: SM 4500 F-C-97
Run ID: A92919
Included Lab Sample IDs: 2102564

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

Reference Method: EPA 8276
Run ID: A92927
Included Lab Sample IDs: 2102587, 2102589, 2102590, 2102593

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	94.8		P	80 - 120
Toxaphene	92.9		P	80 - 120

Reference Method: EPA 8270E
Run ID: A92989
Included Lab Sample IDs: 2102588, 2102591, 2102592, 2102594

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	101		P	80 - 120
Alachlor	102		P	80 - 120
Ametryn	96.3		P	80 - 120
Atrazine	101		P	80 - 120
Atrazine Desethyl	90.5		P	80 - 120
Azinphos Methyl	93.4		P	80 - 120
Bromacil	102		P	80 - 120
Butylate	97.5		P	80 - 120
Chlorpyrifos Ethyl	98.0		P	80 - 120
Chlorpyrifos Methyl	100		P	80 - 120
Cyanazine	94.0		P	80 - 120
Demeton	97.9		P	80 - 120
Diazinon	101		P	80 - 120
Dimethenamid	103		P	80 - 120
Disulfoton	93.5		P	80 - 120

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Reference Method: EPA 8270E
Run ID: A92989
Included Lab Sample IDs: 2102588, 2102591, 2102592, 2102594

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dithiopyr	103		P	80 - 120
EPTC	101		P	80 - 120
Ethion	98.5		P	80 - 120
Ethoprop	102		P	80 - 120
Fenamiphos	100		P	80 - 120
Fipronil	100		P	80 - 120
Fipronil Desulfinyl	103		P	80 - 120
Fipronil Sulfide	101		P	80 - 120
Fipronil Sulfone	101		P	80 - 120
Fonofos	98.9		P	80 - 120
Hexazinone	99.0		P	80 - 120
Malathion	90.3		P	80 - 120
Metalaxyl	107		P	80 - 120
Metolachlor	105		P	80 - 120
Metribuzin	93.2		P	80 - 120
Mevinphos	100		P	80 - 120
Molinate	99.6		P	80 - 120
Norflurazon	100		P	80 - 120
Oxadiazon	105		P	80 - 120
Parathion Ethyl	95.0		P	80 - 120
Parathion Methyl	97.4		P	80 - 120
Pendimethalin	99.1		P	80 - 120
Phorate	101		P	80 - 120
Prodiamine	102		P	80 - 120
Prometon	104		P	80 - 120
Prometryn	100		P	80 - 120
Simazine	96.5		P	80 - 120
Tebuconazole	103		P	80 - 120
Terbufos	98.1		P	80 - 120
Terbuthylazine	102		P	80 - 120

Reference Method: EPA 8270E
Run ID: A92992
Included Lab Sample IDs: 2102587, 2102589, 2102590, 2102593

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	90.3		P	80 - 120
Alpha-BHC	92.6		P	80 - 120
Alpha-Chlordane	92.1		P	80 - 120
Beta-BHC	96.7		P	80 - 120
Bifenthrin	88.4		P	80 - 120
Carbophenothion	101		P	80 - 120
Chlorothalonil	95.6		P	80 - 120
Cis-Nonachlor	89.6		P	80 - 120
Cypermethrin	91.0		P	80 - 120
DDD-p,p'	94.4		P	80 - 120
DDE-p,p'	93.0		P	80 - 120
DDT-p,p'	99.8		P	80 - 120
Delta-BHC	96.0		P	80 - 120
Dicofol	97.8		P	80 - 120
Dieldrin	94.4		P	80 - 120

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Reference Method: EPA 8270E
Run ID: A92992
Included Lab Sample IDs: 2102587, 2102589, 2102590, 2102593

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endosulfan I	86.4		P	80 - 120
Endosulfan II	89.1		P	80 - 120
Endosulfan Sulfate	98.0		P	80 - 120
Endrin	93.3		P	80 - 120
Endrin Aldehyde	86.2		P	80 - 120
Endrin Ketone	93.7		P	80 - 120
Ethalfluralin	95.2		P	80 - 120
Gamma-BHC	94.1		P	80 - 120
Gamma-Chlordane	90.8		P	80 - 120
Heptachlor	88.8		P	80 - 120
Heptachlor Epoxide	92.0		P	80 - 120
Hexachlorobenzene	95.9		P	80 - 120
Methoxychlor	100		P	80 - 120
Mirex	94.0		P	80 - 120
Permethrin	85.1		P	80 - 120
Trans-Nonachlor	90.9		P	80 - 120
Trifluralin	94.5		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A92994
Included Lab Sample IDs: 2102595, 2102596, 2102597, 2102598

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	96.9	96.5	P/P	90 - 110
Antimony	93.3	90.3	P/P	90 - 110
Arsenic	97.6	95.3	P/P	90 - 110
Boron	102	102	P/P	90 - 110
Cadmium	96.9	94.8	P/P	90 - 110
Lead	98.4	96.9	P/P	90 - 110
Nickel	98.9	97.3	P/P	90 - 110
Silver	102	100	P/P	90 - 110
Thallium	97.8	96.5	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A93007
Included Lab Sample IDs: 2102588, 2102591, 2102592

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bromacil	106		P	80 - 120
Metalaxyl	105		P	80 - 120
Norflurazon	98.1		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A93036
Included Lab Sample IDs: 2102595, 2102596, 2102597, 2102598

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chromium	98.8	95.6	P/P	90 - 110
Copper	98.7	97.5	P/P	90 - 110

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Reference Method: EPA 200.8 Rev. 5.4
Run ID: A93069
Included Lab Sample IDs: 2102595, 2102596, 2102597, 2102598

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

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A93072
Included Lab Sample IDs: 2102595

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Lead	93.2	93.4	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A93136
Included Lab Sample IDs: 2102580, 2102583, 2102584, 2102586

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	77.7	79.7	P/P	60 - 160
Sucralose	79.7	81.4	P/P	60 - 160
Sucralose	96.7	97.1	P/P	60 - 160

* 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							7.07	
EPA 200.7 Rev. 4.4	Barium	98.5		98.2	95.6	97.2			2.62
	Calcium	103							0.108
	Iron	101		103	101	102			1.47
	Magnesium	101		103	103				1.10
	Potassium	99.8		102	99.3				0.860
	Sodium	101		104	102				0.152
	Zinc	96.2		96.2	93.4	95.8			2.94
	Zinc	96.0		97.3	96.0	100			1.33
EPA 200.8 Rev. 5.4	Aluminum	95.5		94.5	94.6	91.7			0.0877
	Antimony	95.4		100	99.2	95.6			1.08
	Arsenic	99.5		104	103	98.3			0.932
	Boron	95.5		101	102	99.0			1.29
	Cadmium	96.8		100	102	97.2			1.52
	Chromium	97.0		96.1	96.2	97.3			0.0930
	Copper	98.4		93.8	93.1	94.2			0.673
	Lead	98.2		101	101	97.5			0.219
	Lead	91.0		90.7	90.2	89.4			0.532
	Nickel	98.8		96.5	94.9	95.9			1.52
	Selenium	109		107	105	104			1.53
	Silver	103		104	103	103			0.643
	Thallium	101		109	110	104			0.512
EPA 300.0 Rev. 2.1	Chloride	100		101	101			0.0509	
	Chloride	102		101	102			0.101	
	Sulfate	101		101	102			1.55	
	Sulfate	102		101	104			0.645	
EPA 350.1 Rev. 2.0	Ammonia-N	106		104	103				1.13
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103		101	98.0				3.35
	Kjeldahl Nitrogen	103		101	105				2.41
EPA 353.2 Rev. 2.0	NO2NO3-N	102		102	101				0.793
EPA 365.1 Rev. 2.0	Total-P	103		99.0	104				5.17
	Total-P	105		102	104				1.58
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.1		93.4	94.3				0.804
EPA 8270E	Acetochlor	87.0	105	91.3	96.0		18.7		5.02
	Alachlor	84.6	99.3	86.7	90.5		15.9		4.28
	Aldrin	88.5	89.3	52.9	57.1		0.824		7.69
	Alpha-BHC	136	139	109	125		2.23		13.0
	Alpha-Chlordane	100	101	73.6	71.8		0.337		2.52
	Ametryn	84.8	95.8	87.3	90.1		12.2		3.11
	Atrazine	89.1	109	102	103		20.1		1.81
	Atrazine Desethyl	128	136	109	110		6.29		0.755
	Azinphos Methyl	98.6	118	97.1	103		18.2		5.96
	Beta-BHC	150	161	133	115		7.17		14.7
	Bifenthrin	98.5	99.6	79.5	70.2		1.15		12.4
	Bromacil	73.6	84.8	73.8	81.0		14.2		9.25
	Butylate	53.1	56.3	48.5	63.4		5.79		26.6
	Carbophenothion	113	111	93.7	112		1.78		17.6
	Chlorothalonil	152	144	27.6	27.7		5.80		0.621
	Chlorpyrifos Ethyl	85.0	102	93.3	96.6		17.9		3.44
	Chlorpyrifos Methyl	91.5	108	92.9	99.3		16.2		6.67
	Cis-Nonachlor	100	99.7	72.6	73.7		0.707		1.54
	Cyanazine	169	190	186	188		11.8		1.01
	Cypermethrin	103	99.7	86.8	91.0		3.40		4.71
	DDD-p,p'	107	109	82.1	80.4		1.52		2.07

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision		
						LCS	SMP	MS
EPA 8270E	DDE-p,p'	103	103	66.0	72.1	0.347		8.91
	DDT-p,p'	141	143	107	114	1.47		6.18
	Delta-BHC	155	152	142	137	1.98		3.35
	Demeton	49.5	80.0	79.2	77.9	47.1		1.69
	Diazinon	101	121	111	107	17.3		4.08
	Dicofol	107	120	79.7	84.9	11.1		6.24
	Dieldrin	100	103	81.2	79.2	2.59		2.48
	Dimethenamid	73.2	87.0	72.5	82.7	17.2		13.1
	Disulfoton	55.6	93.4	92.6	90.8	50.7		1.96
	Dithiopyr	89.6	106	91.5	97.1	16.4		5.98
	Endosulfan I	96.6	96.8	86.6	84.7	0.122		2.18
	Endosulfan II	111	102	89.9	98.8	8.24		9.36
	Endosulfan Sulfate	110	110	96.1	97.6	0.194		1.49
	Endrin	102	107	86.8	89.7	4.20		3.28
	Endrin Aldehyde	103	96.5	66.4	70.9	6.26		6.50
	Endrin Ketone	103	104	92.0	104	0.835		12.4
	EPTC	53.1	52.7	55.8	65.2	0.703		15.7
	Ethalfluralin	129	129	97.8	92.3	0.296		5.76
	Ethion	52.5	56.9	37.9	48.1	7.90		23.6
	Ethoprop	89.7	108	99.2	100	18.2		1.25
	Fenamiphos	75.3	89.7	77.2	93.9	17.5		19.5
	Fipronil	88.2	105	89.9	97.3	17.1		7.88
	Fipronil Desulfinyl	80.0	92.4	82.3	88.8	14.4		7.56
	Fipronil Sulfide	80.3	92.3	76.5	88.4	13.9		14.5
	Fipronil Sulfone	69.1	74.4	73.9	79.0	7.28		6.76
	Fonofos	95.6	113	103	109	16.4		5.42
	Gamma-BHC	135	143	134	128	6.15		3.90
	Gamma-Chlordane	100	100	72.0	69.8	0.0842		3.11
	Heptachlor	90.0	90.4	62.8	58.5	0.527		7.11
	Heptachlor Epoxide	99.1	100	77.6	78.0	1.02		0.481
	Hexachlorobenzene	104	111	72.7	62.6	6.10		15.0
	Hexazinone	93.9	103			9.42		0.441
	Malathion	83.6	96.2	81.7	87.7	14.0		7.11
	Metalaxyl	90.2	100	90.9	95.5	10.3		5.03
	Methoxychlor	148	148	121	118	0.325		2.32
	Metolachlor	79.2	92.8	83.1	84.3	15.9		1.49
	Metribuzin	171	218	217	222	24.6		2.54
	Mevinphos	84.4	96.5	93.6	89.1	13.4		4.91
	Mirex	93.2	95.2	60.9	55.0	2.09		10.1
	Molinate	66.2	75.8	74.8	79.4	13.6		5.98
	Norflurazon	83.1	99.2	87.7	89.5	17.6		2.07
	Oxadiazon	78.6	96.4	71.1	84.8	20.3		17.5
	Parathion Ethyl	87.7	98.1	92.3	94.2	11.3		2.01
	Parathion Methyl	95.3	107	92.1	96.5	11.5		4.67
	Pendimethalin	86.0	96.1	93.6	94.9	11.0		1.36
	Permethrin	93.3	91.2	70.5	66.6	2.27		5.61
	Phorate	69.7	85.7	91.2	76.6	20.6		17.5
	Prodiamine	39.3	43.3	44.3	49.8	9.66		11.6
	Prometon	74.2	88.2	75.3	83.5	17.3		10.4
	Prometryn	83.9	93.9	85.8	89.2	11.2		3.86
	Simazine	104	120	99.4	105	14.4		4.98
	Tebuconazole	50.7	59.3	36.7	51.2	15.5		33.1
	Terbufos	84.0	106	104	99.5	23.1		4.43
	Terbuthylazine	87.6	101	92.4	95.4	14.0		3.17

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Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision		
						LCS	SMP	MS
EPA 8270E	Trans-Nonachlor	98.4	98.7	70.3	67.0	0.295		4.84
	Trifluralin	127	130	92.0	86.4	2.68		6.22
EPA 8276	Chlordane	72.4	90.1	82.6	78.5	21.8		5.15
	Toxaphene	66.3	76.6	62.8	68.5	14.4		8.61
EPA 8321B	2,4-D	138						2.80
	3-Hydroxycarbofuran	101		91.0	85.2			6.60
	Acesulfame K	123		115	122			5.82
	Acetaminophen	93.9		96.7	99.6			2.92
	Aldicarb	112		67.3	76.5			12.7
	Aldicarb Sulfone	105		101	91.6			10.1
	Aldicarb Sulfoxide	72.0		47.6	43.0			10.3
	AMPA	98.7		86.9	96.5			10.4
	Bentazon	108		52.6	61.5			12.2
	Carbamazepine	114		98.2	98.0			0.174
	Carbaryl	85.9		62.1	57.3			6.22
	Carbofuran	105		78.1	72.2			7.80
	Diuron	103						4.21
	Endothall	105		96.4	103			6.65
	Fenuron	111		74.7	75.7			0.516
	Fluridone	99.0		103	103			0.444
	Glufosinate	94.4		89.5	99.2			10.3
	Glyphosate	96.1		85.5	96.0			11.6
	Hydrocodone	99.4		103	97.6			5.11
	Ibuprofen	84.4		106	92.3			13.8
	Imazapyr	108		77.2	76.0			1.39
	Imidacloprid	98.9						5.75
	Linuron	87.5		86.4	84.2			2.53
	MCPP	145		219	191			13.8
	Methiocarb	80.0		70.0	67.1			4.23
	Methomyl	85.9		60.9	66.9			9.41
	Naproxen	104		121	101			17.4
	Oxamyl	99.9		97.7	71.2			31.4
	Primidone	85.3		113	87.5			25.2
	Propoxur	95.3		70.7	66.3			6.38
	Pyraclostrobin	96.2		110	104			6.16
	Sucralose	85.9		87.4	106			19.3
	Triclopyr	137		185	177			4.44
SM 2120 B	Color (true)	98.3					2.19	
SM 2320 B-97	Total Alkalinity	104					0.672	
	Total Alkalinity	103					1.46	
SM 2540 C-97	TDS						4.44	
SM 2540 D-97	TSS						6.45	
SM 4500 F-C-97	Fluoride	96.4		95.9	95.3			0.476
	Fluoride	96.9		106	105			0.511
SM 5310 B-00	Organic Carbon	97.8		97.8	98.4			0.401
	Organic Carbon	98.4		98.3	99.0			0.575

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2102555, 2102558, 2102559, 2102564

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2102595, 2102596, 2102597, 2102598
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2102595, 2102596, 2102597, 2102598
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2102555, 2102558, 2102559, 2102564
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2102555, 2102558, 2102559, 2102564
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2102556, 2102560, 2102561, 2102565
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2102556, 2102560, 2102561, 2102565
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2102556, 2102560, 2102561, 2102565
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2102556, 2102560, 2102561, 2102565
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2102557, 2102562, 2102563, 2102566
EPA 8270E / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	2102587, 2102589, 2102590, 2102593
EPA 8270E / E31780	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2102588, 2102591, 2102592, 2102594
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2102587, 2102589, 2102590, 2102593
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	2102579, 2102581, 2102582, 2102585
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2102580, 2102583, 2102584, 2102586
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	2102580, 2102583, 2102584, 2102586
SM 2120 B / E31780	True Color measured at 450 nm	2102555, 2102558, 2102559, 2102564
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	2102555, 2102558, 2102559, 2102564
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2102555, 2102558, 2102559, 2102564
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2102555, 2102558, 2102559, 2102564
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2102555, 2102558, 2102559, 2102564
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2102556, 2102560, 2102561, 2102565

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	07/12/2019			07/12/2019 16:46	Samantha Davila	2102555, 2102558, 2102559, 2102564
EPA 200.7 Rev. 4.4	07/12/2019	07/15/2019 17:40	Elliott D. Healy	07/16/2019 14:59	Betina Topolski	2102595
	07/12/2019	07/15/2019 17:40	Elliott D. Healy	07/16/2019 15:07	Betina Topolski	2102596
	07/12/2019	07/15/2019 17:40	Elliott D. Healy	07/16/2019 15:13	Betina Topolski	2102597
	07/12/2019	07/15/2019 17:40	Elliott D. Healy	07/16/2019 15:20	Betina Topolski	2102598
	07/12/2019	07/18/2019 18:10	Elliott D. Healy	07/19/2019 19:08	Betina Topolski	2102595
	07/12/2019	07/18/2019 18:10	Elliott D. Healy	07/19/2019 19:14	Betina Topolski	2102596
EPA 200.8 Rev. 5.4	07/12/2019	07/15/2019 17:40	Elliott D. Healy	07/24/2019 00:42	Robert K Palmer	2102595
	07/12/2019	07/15/2019 17:40	Elliott D. Healy	07/24/2019 00:52	Robert K Palmer	2102596
	07/12/2019	07/15/2019 17:40	Elliott D. Healy	07/24/2019 01:02	Robert K Palmer	2102597
	07/12/2019	07/15/2019 17:40	Elliott D. Healy	07/24/2019 01:11	Robert K Palmer	2102598
	07/12/2019	07/15/2019 17:40	Elliott D. Healy	07/25/2019 20:10	Robert K Palmer	2102595
	07/12/2019	07/15/2019 17:40	Elliott D. Healy	07/25/2019 20:17	Robert K Palmer	2102596
	07/12/2019	07/15/2019 17:40	Elliott D. Healy	07/25/2019 20:24	Robert K Palmer	2102597
	07/12/2019	07/15/2019 17:40	Elliott D. Healy	07/25/2019 20:30	Robert K Palmer	2102598
	07/12/2019	07/15/2019 17:40	Elliott D. Healy	07/26/2019 18:47	Robert K Palmer	2102595
	07/12/2019	07/15/2019 17:40	Elliott D. Healy	07/26/2019 18:53	Robert K Palmer	2102596
	07/12/2019	07/15/2019 17:40	Elliott D. Healy	07/26/2019 19:00	Robert K Palmer	2102597
	07/12/2019	07/15/2019 17:40	Elliott D. Healy	07/26/2019 19:06	Robert K Palmer	2102598
	07/12/2019	07/18/2019 18:10	Elliott D. Healy	07/27/2019 11:36	Robert K Palmer	2102595
EPA 300.0 Rev. 2.1	07/12/2019			07/16/2019 17:30	Jhamieka S. Greenwood	2102555
	07/12/2019			07/16/2019 17:42	Jhamieka S. Greenwood	2102558
	07/12/2019			07/16/2019 18:19	Jhamieka S. Greenwood	2102559
	07/12/2019			07/16/2019 23:22	Jhamieka S. Greenwood	2102564
EPA 350.1 Rev. 2.0	07/12/2019			07/19/2019 15:22	Virginia P. Brown	2102556
	07/12/2019			07/19/2019 15:24	Virginia P. Brown	2102560
	07/12/2019			07/19/2019 15:25	Virginia P. Brown	2102561
	07/12/2019			07/19/2019 15:27	Virginia P. Brown	2102565
EPA 351.2 Rev. 2.0	07/12/2019	07/15/2019 12:00	Sima Feizi	07/16/2019 09:06	Joseph Suarez	2102556
	07/12/2019	07/15/2019 12:00	Sima Feizi	07/16/2019 09:07	Joseph Suarez	2102560
	07/12/2019	07/15/2019 12:00	Sima Feizi	07/16/2019 09:12	Joseph Suarez	2102561
	07/12/2019	07/15/2019 12:00	Sima Feizi	07/16/2019 09:20	Joseph Suarez	2102565
EPA 353.2 Rev. 2.0	07/12/2019			07/16/2019 09:31	Beverly Y. Sanders	2102565
	07/12/2019			07/16/2019 10:27	Beverly Y. Sanders	2102561
	07/12/2019			07/16/2019 10:52	Beverly Y. Sanders	2102556
	07/12/2019			07/16/2019 10:53	Beverly Y. Sanders	2102560
EPA 365.1 Rev. 2.0	07/12/2019	07/15/2019 12:55	Sima Feizi	07/16/2019 08:47	Lipi Saha	2102556
	07/12/2019	07/15/2019 12:55	Sima Feizi	07/16/2019 08:48	Lipi Saha	2102560
	07/12/2019	07/15/2019 12:55	Sima Feizi	07/16/2019 09:11	Lipi Saha	2102561
	07/12/2019	07/15/2019 12:55	Sima Feizi	07/16/2019 09:14	Lipi Saha	2102565

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 365.1 Rev. 2.0 dissolved	07/12/2019			07/12/2019 16:09	Jhamieka S. Greenwood	2102563
	07/12/2019			07/12/2019 16:10	Jhamieka S. Greenwood	2102566
	07/12/2019			07/12/2019 16:30	Jhamieka S. Greenwood	2102562
	07/12/2019			07/12/2019 16:43	Jhamieka S. Greenwood	2102557
EPA 8270E	07/12/2019	07/12/2019 15:00	Rasheda Ghaffari	07/16/2019 18:18	Vandana T. Nagar	2102588
	07/12/2019	07/12/2019 15:00	Rasheda Ghaffari	07/16/2019 18:42	Vandana T. Nagar	2102591
	07/12/2019	07/12/2019 15:00	Rasheda Ghaffari	07/16/2019 19:06	Vandana T. Nagar	2102592
	07/12/2019	07/12/2019 15:00	Rasheda Ghaffari	07/16/2019 19:30	Vandana T. Nagar	2102594
	07/12/2019	07/12/2019 15:00	Rasheda Ghaffari	07/17/2019 17:51	Vandana T. Nagar	2102588
	07/12/2019	07/12/2019 15:00	Rasheda Ghaffari	07/17/2019 18:23	Vandana T. Nagar	2102588
	07/12/2019	07/12/2019 15:00	Rasheda Ghaffari	07/17/2019 18:52	Vandana T. Nagar	2102588
	07/12/2019	07/12/2019 15:00	Rasheda Ghaffari	07/17/2019 19:17	Vandana T. Nagar	2102591
	07/12/2019	07/12/2019 15:00	Rasheda Ghaffari	07/17/2019 19:46	Vandana T. Nagar	2102591
	07/12/2019	07/12/2019 15:00	Rasheda Ghaffari	07/17/2019 20:15	Vandana T. Nagar	2102592
	07/12/2019	07/12/2019 15:00	Rasheda Ghaffari	07/17/2019 20:43	Vandana T. Nagar	2102592
	07/12/2019	07/17/2019 08:30	Rasheda Ghaffari	07/20/2019 02:00	Arthur Maknenko	2102587
	07/12/2019	07/17/2019 08:30	Rasheda Ghaffari	07/20/2019 02:32	Arthur Maknenko	2102589
	07/12/2019	07/17/2019 08:30	Rasheda Ghaffari	07/20/2019 03:04	Arthur Maknenko	2102590
	07/12/2019	07/17/2019 08:30	Rasheda Ghaffari	07/20/2019 03:36	Arthur Maknenko	2102593
EPA 8276	07/12/2019	07/17/2019 08:30	Rasheda Ghaffari	07/19/2019 01:16	Dinesh Mishra	2102587
	07/12/2019	07/17/2019 08:30	Rasheda Ghaffari	07/19/2019 02:12	Dinesh Mishra	2102589
	07/12/2019	07/17/2019 08:30	Rasheda Ghaffari	07/19/2019 03:07	Dinesh Mishra	2102590
	07/12/2019	07/17/2019 08:30	Rasheda Ghaffari	07/19/2019 04:03	Dinesh Mishra	2102593
EPA 8321B	07/12/2019	07/15/2019 09:00	Hoor Shaik	07/18/2019 02:18	Juyoung Kim	2102579
	07/12/2019	07/15/2019 09:00	Hoor Shaik	07/18/2019 06:55	Juyoung Kim	2102581
	07/12/2019	07/15/2019 09:00	Hoor Shaik	07/18/2019 07:29	Juyoung Kim	2102582
	07/12/2019	07/15/2019 09:00	Hoor Shaik	07/18/2019 08:04	Juyoung Kim	2102585
	07/12/2019	07/15/2019 09:00	Hoor Shaik	07/18/2019 10:22	Juyoung Kim	2102580
	07/12/2019	07/15/2019 09:00	Hoor Shaik	07/18/2019 10:57	Juyoung Kim	2102583
	07/12/2019	07/15/2019 09:00	Hoor Shaik	07/18/2019 11:31	Juyoung Kim	2102584
	07/12/2019	07/15/2019 09:00	Hoor Shaik	07/18/2019 12:06	Juyoung Kim	2102586
	07/12/2019	07/15/2019 09:00	Hoor Shaik	07/18/2019 17:17	Juyoung Kim	2102580
	07/12/2019	07/15/2019 09:00	Hoor Shaik	07/18/2019 17:52	Juyoung Kim	2102583
	07/12/2019	07/15/2019 10:30	Rebecca Ware	07/15/2019 13:23	Rebecca Ware	2102580
	07/12/2019	07/15/2019 10:30	Rebecca Ware	07/15/2019 13:33	Rebecca Ware	2102583
	07/12/2019	07/15/2019 10:30	Rebecca Ware	07/15/2019 13:44	Rebecca Ware	2102584
	07/12/2019	07/15/2019 10:30	Rebecca Ware	07/15/2019 13:55	Rebecca Ware	2102586
	07/12/2019	07/15/2019 10:30	Rebecca Ware	07/15/2019 17:58	Rebecca Ware	2102580
	07/12/2019	07/15/2019 10:30	Rebecca Ware	07/15/2019 18:11	Rebecca Ware	2102583
	07/12/2019	07/15/2019 10:30	Rebecca Ware	07/15/2019 18:25	Rebecca Ware	2102584

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	07/12/2019	07/15/2019 10:30	Rebecca Ware	07/15/2019 18:39	Rebecca Ware	2102586
	07/12/2019	07/15/2019 10:30	Rebecca Ware	07/25/2019 23:33	Rebecca Ware	2102580
	07/12/2019	07/15/2019 10:30	Rebecca Ware	07/26/2019 00:08	Rebecca Ware	2102583
	07/12/2019	07/15/2019 10:30	Rebecca Ware	07/26/2019 00:20	Rebecca Ware	2102584
	07/12/2019	07/15/2019 10:30	Rebecca Ware	07/30/2019 12:53	Rebecca Ware	2102586
SM 2120 B	07/12/2019			07/12/2019 15:55	Madeline Funaro	2102559
	07/12/2019			07/12/2019 16:16	Madeline Funaro	2102555, 2102558
	07/12/2019			07/12/2019 16:25	Madeline Funaro	2102564
SM 2320 B-97	07/12/2019			07/18/2019 14:32	Dale L. Simmons	2102555
	07/12/2019			07/18/2019 14:45	Dale L. Simmons	2102558
	07/12/2019			07/18/2019 15:57	Dale L. Simmons	2102559
	07/12/2019			07/19/2019 17:16	Samantha Davila	2102564
SM 2540 C-97	07/12/2019			07/16/2019 21:03	Yijie Li	2102555, 2102558, 2102559, 2102564
SM 2540 D-97	07/12/2019			07/16/2019 21:03	Yijie Li	2102555, 2102558, 2102559, 2102564
SM 4500 F-C-97	07/12/2019			07/18/2019 14:32	Dale L. Simmons	2102555
	07/12/2019			07/18/2019 14:45	Dale L. Simmons	2102558
	07/12/2019			07/18/2019 15:57	Dale L. Simmons	2102559
	07/12/2019			07/19/2019 17:16	Samantha Davila	2102564
SM 5310 B-00	07/12/2019			07/17/2019 21:23	Madeline Funaro	2102556
	07/12/2019			07/17/2019 21:35	Madeline Funaro	2102560
	07/12/2019			07/17/2019 21:48	Madeline Funaro	2102561
	07/12/2019			07/17/2019 23:41	Madeline Funaro	2102565