

Chemical Analysis Report

SO-DIST-2022-06-08-01

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

Event Description: **2022 SMP : Myakka Cricks**

Request ID: **RQ-2022-06-06-48**

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
Attn: William Mullen

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 30-JUN-2022 14:51

A handwritten signature in black ink, appearing to read "Liang Lin", is shown on a light-colored background.

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: LITTLE ALLIGATOR CREEK @ MIDWAY BLVD Collection Date/Time: 06/07/2022 09:00

Field ID: G3SD0071

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332900	EPA 180.1 Rev. 2.0	Turbidity	1.2		NTU	P414916	
	SM 2320 B-2011	Total Alkalinity	119		mg CaCO3/L	P415497	
	SM 2540 D-2011	TSS	8	I	mg/L	P415251	
	SM 4500-F- C-2011	Fluoride	0.95		mg F/L	P415762	
2332902	EPA 350.1 Rev. 2.0	Ammonia-N	0.021		mg N/L	P415379	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.61		mg N/L	P414858	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P415636	
	EPA 365.1 Rev. 2.0	Total-P	0.23		mg P/L	P415015	
	SM 5310 B-2011	Organic Carbon	8.2		mg C/L	P415296	
2332923	EPA 8270E	Oxybenzone**	9.7	U	ng/L	P415071	
		Acetochlor	0.24	U	ng/L	P415071	
		Octinoxate**	34	I	ng/L	P415071	
		Alachlor	0.24	U	ng/L	P415071	
		Avobenzone**	97	U	ng/L	P415071	
		Ametryn	0.58	U	ng/L	P415071	
		Atrazine	19		ng/L	P415071	
		Atrazine Desethyl	1.5	U	ng/L	P415071	
		Azinphos Methyl	1.9	U	ng/L	P415071	
		Azoxystrobin**	0.60	I	ng/L	P415071	
		Bromacil	3.7		ng/L	P415071	
		Butylate	0.39	U	ng/L	P415071	
		Caffeine**	19	I	ng/L	P415071	
		Carbophenothion	0.19	U	ng/L	P415071	
		Carfentrazone Ethyl**	0.097	U	ng/L	P415071	
		Chlorfenapyr**	0.17	U	ng/L	P415071	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P415071	
		Chlorpyrifos Methyl	0.048	U	ng/L	P415071	
		Coumaphos**	0.48	U	ng/L	P415071	
		Cyanazine	3.1	U	ng/L	P415071	
		Cyprodinil**	0.097	U	ng/L	P415071	
		Demeton	1.5	U	ng/L	P415071	
		Diazinon	0.12	U	ng/L	P415071	
		Difenoconazole**	0.58	U	ng/L	P415071	
		Dimethenamid**	0.097	U	ng/L	P415071	
		Dimethomorph**	0.19	I	ng/L	P415071	
		Disulfoton	0.48	U	ng/L	P415071	
		Dithiopyr**	0.17	U	ng/L	P415071	
		EPTC	1.2	U	ng/L	P415071	
		Ethion	0.15	U	ng/L	P415071	
		Ethoprop	0.097	U	ng/L	P415071	
		Etridiazole**	0.15	U	ng/L	P415071	
		Fenamiphos	0.48	U	ng/L	P415071	
		Fenbuconazole**	0.12	U	ng/L	P415071	
		Fipronil	0.89	I	ng/L	P415071	

Field ID: G3SD0071

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332923	EPA 8270E	Fipronil Desulfinyl**	0.31	I	ng/L	P415071	
		Fipronil Sulfide	0.15	U	ng/L	P415071	
		Fipronil Sulfone	0.31	I	ng/L	P415071	
		Fluazifop-P-butyl**	0.097	U	ng/L	P415071	
		Fludioxonil**	0.12	U	ng/L	P415071	
		Flumioxazin**	1.7	U	ng/L	P415071	
		Flutolanil**	0.14	I	ng/L	P415071	
		Fluxapyroxad**	0.19	I	ng/L	P415071	
		Fonofos	0.19	U	ng/L	P415071	
		Hexazinone	9.2		ng/L	P415071	
		Imazalil**	0.73	U	ng/L	P415071	
		Iprodione**	0.58	U	ng/L	P415071	
		Loratadine**	0.097	U	ng/L	P415071	
		Malathion	0.34	U	ng/L	P415071	
		Metalaxyl	3.2		ng/L	P415071	
		Metolachlor	0.96	I	ng/L	P415071	
		Metribuzin	2.4	U	ng/L	P415071	
		Mevinphos	1.0	U	ng/L	P415071	
		Molinate	0.29	U	ng/L	P415071	
		Myclobutanil**	0.24	U	ng/L	P415071	
		Naled**	1.5	UJ	ng/L	P415071	LCS
		Napropamide**	0.39	U	ng/L	P415071	
		Norflurazon	6.7		ng/L	P415071	
		Oxadiazon	0.58	I	ng/L	P415071	
		Oxyfluorfen**	0.15	U	ng/L	P415071	
		Parathion Ethyl	0.24	U	ng/L	P415071	
		Parathion Methyl	0.53	U	ng/L	P415071	
		Pendimethalin	0.97	U	ng/L	P415071	
		Phenytol**	3.4	U	ng/L	P415071	
		Phorate	0.51	U	ng/L	P415071	
		Prodiamine**	0.17	U	ng/L	P415071	
		Prometon	0.87	U	ng/L	P415071	
		Prometryn	0.19	U	ng/L	P415071	
		Pronamide**	0.15	U	ng/L	P415071	
		Propanil**	0.12	U	ng/L	P415071	
		Propargite**	1.5	U	ng/L	P415071	
		Propiconazole**	0.48	U	ng/L	P415071	
		Pyraflufen Ethyl**	0.24	U	ng/L	P415071	
		Pyridaben**	0.44	U	ng/L	P415071	
		Pyriproxyfen**	0.12	U	ng/L	P415071	
		Simazine	0.48	U	ng/L	P415071	
		Stirophos**	0.12	UJ	ng/L	P415071	LCS, MS, RPD
		Sulfentrazone**	1.7	I	ng/L	P415071	
		Tebuconazole**	1.4	I	ng/L	P415071	

Field ID: G3SD0071

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332923	EPA 8270E	Terbufos	0.097	U	ng/L	P415071	
		Terbutylazine	0.41	U	ng/L	P415071	
		Thiobencarb**	0.58	U	ng/L	P415071	
		Triadimefon**	0.24	U	ng/L	P415071	
2332929	EPA 200.7 Rev. 4.4	Calcium	298		mg/L	P415007	
		Iron	90	U	ug/L	P415007	
		Magnesium	843		mg/L	P415007	
		Strontium	6.50E+03		ug/L	P415007	
	EPA 200.8 Rev. 5.4	Tin	150	U	ug/L	P415007	
		Titanium	3.0	I	ug/L	P415007	
		Vanadium	6.0	U	ug/L	P415007	
		Zinc	15	U	ug/L	P415007	
		Aluminum	50	U	ug/L	P415007	
		Antimony	0.28	I	ug/L	P415007	
		Arsenic	3.06		ug/L	P415007	
		Beryllium	0.10	U	ug/L	P415007	
		Cadmium	0.080	U	ug/L	P415007	
		Chromium	1.6	U	ug/L	P415007	
		Cobalt	0.095	I	ug/L	P415007	
		Copper	1.6	U	ug/L	P415007	
		Lead	0.80	U	ug/L	P415007	
		Manganese	20.2		ug/L	P415007	
		Molybdenum	8.0		ug/L	P415007	
		Nickel	2.0	U	ug/L	P415007	
		Selenium	0.80	U	ug/L	P415007	
		Silver	0.040	U	ug/L	P415007	
		Thallium	0.40	U	ug/L	P415007	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 8270E: MS accuracy for atrazine and metolachlor not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium and magnesium are unavailable because of high analyte concentration in the QC sample.

Sample Location: FlopbuckNearPearlSt

Collection Date/Time: 06/07/2022 09:40

Field ID: G3SD0185

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332908	EPA 180.1 Rev. 2.0	Turbidity	3.2		NTU	P414916	
	SM 2320 B-2011	Total Alkalinity	155		mg CaCO3/L	P415497	
	SM 2540 D-2011	TSS	11		mg/L	P415251	
	SM 4500-F- C-2011	Fluoride	0.90		mg F/L	P415762	
2332909	EPA 350.1 Rev. 2.0	Ammonia-N	0.023		mg N/L	P415671	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P415098	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.007	I	mg N/L	P415636	
	EPA 365.1 Rev. 2.0	Total-P	0.26		mg P/L	P415015	
	SM 5310 B-2011	Organic Carbon	11		mg C/L	P415296	
2332931	EPA 200.7 Rev. 4.4	Calcium	311		mg/L	P415007	
		Iron	210	I	ug/L	P415007	
		Magnesium	793		mg/L	P415007	
		Strontium	6.30E+03		ug/L	P415007	
		Tin	150	U	ug/L	P415007	
		Titanium	3.6	I	ug/L	P415007	
		Vanadium	6.0	U	ug/L	P415007	
	EPA 200.8 Rev. 5.4	Zinc	15	U	ug/L	P415007	
		Aluminum	70	I	ug/L	P415007	
		Antimony	0.31	I	ug/L	P415007	
		Arsenic	3.65		ug/L	P415007	
		Beryllium	0.10	U	ug/L	P415007	
		Cadmium	0.080	U	ug/L	P415007	
		Chromium	1.6	U	ug/L	P415007	
		Cobalt	0.19	I	ug/L	P415007	
		Copper	1.6	U	ug/L	P415007	
		Lead	0.80	U	ug/L	P415007	
		Manganese	42.2		ug/L	P415007	
		Molybdenum	7.7		ug/L	P415007	
		Nickel	2.0	U	ug/L	P415007	
		Selenium	0.80	U	ug/L	P415007	
		Silver	0.040	U	ug/L	P415007	
		Thallium	0.40	U	ug/L	P415007	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium and magnesium are unavailable because of high analyte concentration in the QC sample.

Sample Location: Apollo Waterway EBranch

Collection Date/Time: 06/07/2022 10:05

Field ID: G3SD0208

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332904	EPA 180.1 Rev. 2.0	Turbidity	3.8		NTU	P414916	
	SM 2320 B-2011	Total Alkalinity	135		mg CaCO3/L	P415497	
	SM 2540 D-2011	TSS	10		mg/L	P415251	
	SM 4500-F- C-2011	Fluoride	0.80		mg F/L	P415762	
2332905	EPA 350.1 Rev. 2.0	Ammonia-N	0.038		mg N/L	P415671	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.85		mg N/L	P415098	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.019		mg N/L	P415636	
	EPA 365.1 Rev. 2.0	Total-P	0.24		mg P/L	P415015	
	SM 5310 B-2011	Organic Carbon	9.8		mg C/L	P415296	
2332925	EPA 8270E	Oxybenzone**	10	U	ng/L	P415071	
		Acetochlor	0.25	U	ng/L	P415071	
		Octinoxate**	20	U	ng/L	P415071	
		Alachlor	0.25	U	ng/L	P415071	
		Avobenzone**	100	U	ng/L	P415071	
		Ametryn	0.60	U	ng/L	P415071	
		Atrazine	15		ng/L	P415071	
		Atrazine Desethyl	1.5	U	ng/L	P415071	
		Azinphos Methyl	2.0	U	ng/L	P415071	
		Azoxystrobin**	0.50	U	ng/L	P415071	
		Bromacil	0.50	U	ng/L	P415071	
		Butylate	0.40	U	ng/L	P415071	
		Caffeine**	9.9	I	ng/L	P415071	
		Carbophenothion	0.20	U	ng/L	P415071	
		Carfentrazone Ethyl**	0.10	U	ng/L	P415071	
		Chlorfenapyr**	0.18	U	ng/L	P415071	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P415071	
		Chlorpyrifos Methyl	0.050	U	ng/L	P415071	
		Coumaphos**	0.50	U	ng/L	P415071	
		Cyanazine	3.2	U	ng/L	P415071	
		Cyprodinil**	0.10	U	ng/L	P415071	
		Demeton	1.5	U	ng/L	P415071	
		Diazinon	0.12	U	ng/L	P415071	
		Difenoconazole**	0.60	U	ng/L	P415071	
		Dimethenamid**	0.10	U	ng/L	P415071	
		Dimethomorph**	0.18	U	ng/L	P415071	
		Disulfoton	0.50	U	ng/L	P415071	
		Dithiopyr**	0.18	U	ng/L	P415071	
		EPTC	1.2	U	ng/L	P415071	
		Ethion	0.15	U	ng/L	P415071	
		Ethoprop	0.10	U	ng/L	P415071	
		Etridiazole**	0.15	U	ng/L	P415071	
		Fenamiphos	0.50	U	ng/L	P415071	
		Fenbuconazole**	0.12	U	ng/L	P415071	
		Fipronil	0.25	U	ng/L	P415071	

Field ID: G3SD0208

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332925	EPA 8270E	Fipronil Desulfinyl**	0.23	I	ng/L	P415071	
		Fipronil Sulfide	0.15	U	ng/L	P415071	
		Fipronil Sulfone	0.30	I	ng/L	P415071	
		Fluazifop-P-butyl**	0.10	U	ng/L	P415071	
		Fludioxonil**	0.12	U	ng/L	P415071	
		Flumioxazin**	1.8	U	ng/L	P415071	
		Flutolanil**	0.27	I	ng/L	P415071	
		Fluxapyroxad**	0.39	I	ng/L	P415071	
		Fonofos	0.20	U	ng/L	P415071	
		Hexazinone	9.5		ng/L	P415071	
		Imazalil**	0.75	U	ng/L	P415071	
		Iprodione**	0.60	U	ng/L	P415071	
		Loratadine**	0.10	U	ng/L	P415071	
		Malathion	0.35	U	ng/L	P415071	
		Metalaxyl	0.86	I	ng/L	P415071	
		Metolachlor	0.35	U	ng/L	P415071	
		Metribuzin	2.5	U	ng/L	P415071	
		Mevinphos	1.0	U	ng/L	P415071	
		Molinate	0.30	U	ng/L	P415071	
		Myclobutanil**	0.25	U	ng/L	P415071	
		Naled**	1.5	UJ	ng/L	P415071	LCS
		Napropamide**	0.40	U	ng/L	P415071	
		Norflurazon	1.1	I	ng/L	P415071	
		Oxadiazon	0.56	I	ng/L	P415071	
		Oxyfluorfen**	0.15	U	ng/L	P415071	
		Parathion Ethyl	0.25	U	ng/L	P415071	
		Parathion Methyl	0.55	U	ng/L	P415071	
		Pendimethalin	1.0	U	ng/L	P415071	
		Phenytol**	3.5	U	ng/L	P415071	
		Phorate	0.52	U	ng/L	P415071	
		Prodiamine**	0.18	U	ng/L	P415071	
		Prometon	0.90	U	ng/L	P415071	
		Prometryn	0.20	U	ng/L	P415071	
		Pronamide**	0.15	U	ng/L	P415071	
		Propanil**	0.12	U	ng/L	P415071	
		Propargite**	1.5	U	ng/L	P415071	
		Propiconazole**	0.50	U	ng/L	P415071	
		Pyraflufen Ethyl**	0.25	U	ng/L	P415071	
		Pyridaben**	0.45	U	ng/L	P415071	
		Pyriproxyfen**	0.12	U	ng/L	P415071	
		Simazine	0.50	U	ng/L	P415071	
		Stirophos**	0.12	UJ	ng/L	P415071	LCS, MS, RPD
		Sulfentrazone**	1.5	I	ng/L	P415071	
		Tebuconazole**	1.5	I	ng/L	P415071	

Field ID: G3SD0208

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332925	EPA 8270E	Terbufos	0.10	U	ng/L	P415071	
		Terbutylazine	0.42	U	ng/L	P415071	
		Thiobencarb**	0.60	U	ng/L	P415071	
		Triadimefon**	0.25	U	ng/L	P415071	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8270E: MS accuracy for atrazine and metolachlor not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Apollo Waterway WBranch

Collection Date/Time: 06/07/2022 10:25

Field ID: G3SD0195

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332910	EPA 180.1 Rev. 2.0	Turbidity	5.4		NTU	P414916	
	SM 2320 B-2011	Total Alkalinity	127		mg CaCO3/L	P415497	
	SM 2540 D-2011	TSS	13		mg/L	P415251	
	SM 4500-F- C-2011	Fluoride	0.79		mg F/L	P415762	
2332911	EPA 350.1 Rev. 2.0	Ammonia-N	0.01		mg N/L	P415671	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.89		mg N/L	P415098	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P415636	
	EPA 365.1 Rev. 2.0	Total-P	0.19		mg P/L	P415015	
	SM 5310 B-2011	Organic Carbon	9.9		mg C/L	P415296	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: ROCK CREEK @ EISENHOWER DR

Collection Date/Time: 06/07/2022 10:45

Field ID: G3SD0070

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332901	EPA 180.1 Rev. 2.0	Turbidity	2.7		NTU	P414916	
	SM 2320 B-2011	Total Alkalinity	106		mg CaCO3/L	P415497	
	SM 2540 D-2011	TSS	10		mg/L	P415251	
	SM 4500-F- C-2011	Fluoride	0.84		mg F/L	P415762	
2332903	EPA 350.1 Rev. 2.0	Ammonia-N	0.025		mg N/L	P415671	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.69		mg N/L	P415098	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	I	mg N/L	P415636	
	EPA 365.1 Rev. 2.0	Total-P	0.21		mg P/L	P415015	
	SM 5310 B-2011	Organic Carbon	10		mg C/L	P415296	
2332924	EPA 8270E	Oxybenzone**	9.7	U	ng/L	P415071	
		Acetochlor	0.24	U	ng/L	P415071	
		Octinoxate**	21	I	ng/L	P415071	
		Alachlor	0.24	U	ng/L	P415071	
		Avobenzone**	97	U	ng/L	P415071	
		Ametryn	0.58	U	ng/L	P415071	
		Atrazine	20		ng/L	P415071	
		Atrazine Desethyl	3.1	I	ng/L	P415071	
		Azinphos Methyl	1.9	U	ng/L	P415071	
		Azoxystrobin**	0.63	I	ng/L	P415071	
		Bromacil	2.2		ng/L	P415071	
		Butylate	0.39	U	ng/L	P415071	
		Caffeine**	9.6	I	ng/L	P415071	
		Carbophenothion	0.19	U	ng/L	P415071	
		Carfentrazone Ethyl**	0.097	U	ng/L	P415071	
		Chlorfenapyr**	0.17	U	ng/L	P415071	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P415071	
		Chlorpyrifos Methyl	0.049	U	ng/L	P415071	
		Coumaphos**	0.49	U	ng/L	P415071	
		Cyanazine	3.2	U	ng/L	P415071	
		Cyprodinil**	0.097	U	ng/L	P415071	
		Demeton	1.5	U	ng/L	P415071	
		Diazinon	0.12	U	ng/L	P415071	
		Difenoconazole**	0.58	U	ng/L	P415071	
		Dimethenamid**	0.097	U	ng/L	P415071	
		Dimethomorph**	0.17	U	ng/L	P415071	
		Disulfoton	0.49	U	ng/L	P415071	
		Dithiopyr**	0.17	U	ng/L	P415071	
		EPTC	1.2	U	ng/L	P415071	
		Ethion	0.15	U	ng/L	P415071	
		Ethoprop	0.097	U	ng/L	P415071	
		Etridiazole**	0.15	U	ng/L	P415071	
		Fenamiphos	0.49	U	ng/L	P415071	
		Fenbuconazole**	0.12	U	ng/L	P415071	
		Fipronil	0.24	U	ng/L	P415071	

Field ID: G3SD0070

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332924	EPA 8270E	Fipronil Desulfinyl**	0.27	I	ng/L	P415071	
		Fipronil Sulfide	0.15	U	ng/L	P415071	
		Fipronil Sulfone	0.28	I	ng/L	P415071	
		Fluazifop-P-butyl**	0.097	U	ng/L	P415071	
		Fludioxonil**	0.12	U	ng/L	P415071	
		Flumioxazin**	1.7	U	ng/L	P415071	
		Flutolanil**	0.42		ng/L	P415071	
		Fluxapyroxad**	1.1		ng/L	P415071	
		Fonofos	0.19	U	ng/L	P415071	
		Hexazinone	11		ng/L	P415071	
		Imazalil**	0.73	U	ng/L	P415071	
		Iprodione**	0.58	U	ng/L	P415071	
		Loratadine**	0.097	U	ng/L	P415071	
		Malathion	0.34	U	ng/L	P415071	
		Metalaxyl	1.2	I	ng/L	P415071	
		Metolachlor	0.66	I	ng/L	P415071	
		Metribuzin	2.4	U	ng/L	P415071	
		Mevinphos	1.0	U	ng/L	P415071	
		Molinate	0.29	U	ng/L	P415071	
		Myclobutanil**	0.24	U	ng/L	P415071	
		Naled**	1.5	UJ	ng/L	P415071	LCS
		Napropamide**	0.39	U	ng/L	P415071	
		Norflurazon	1.7	I	ng/L	P415071	
		Oxadiazon	0.60	I	ng/L	P415071	
		Oxyfluorfen**	0.15	U	ng/L	P415071	
		Parathion Ethyl	0.24	U	ng/L	P415071	
		Parathion Methyl	0.53	U	ng/L	P415071	
		Pendimethalin	0.97	U	ng/L	P415071	
		Phenytol**	3.4	U	ng/L	P415071	
		Phorate	0.51	U	ng/L	P415071	
		Prodiamine**	0.17	U	ng/L	P415071	
		Prometon	0.87	U	ng/L	P415071	
		Prometryn	0.19	U	ng/L	P415071	
		Pronamide**	0.15	U	ng/L	P415071	
		Propanil**	0.12	U	ng/L	P415071	
		Propargite**	1.5	U	ng/L	P415071	
		Propiconazole**	0.49	U	ng/L	P415071	
		Pyraflufen Ethyl**	0.24	U	ng/L	P415071	
		Pyridaben**	0.44	U	ng/L	P415071	
		Pyriproxyfen**	0.12	U	ng/L	P415071	
		Simazine	0.49	U	ng/L	P415071	
		Stirophos**	0.12	UJ	ng/L	P415071	LCS, MS, RPD
		Sulfentrazone**	1.3	I	ng/L	P415071	
		Tebuconazole**	1.3	I	ng/L	P415071	

Field ID: G3SD0070

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332924	EPA 8270E	Terbufos	0.097	U	ng/L	P415071	
		Terbutylazine	0.41	U	ng/L	P415071	
		Thiobencarb**	0.58	U	ng/L	P415071	
		Triadimefon**	0.24	U	ng/L	P415071	
2332930	EPA 200.7 Rev. 4.4	Calcium	272		mg/L	P415007	
		Iron	170	I	ug/L	P415007	
		Magnesium	683		mg/L	P415007	
		Strontium	8.12E+03		ug/L	P415007	
	EPA 200.8 Rev. 5.4	Tin	60	U	ug/L	P415007	
		Titanium	3.6	I	ug/L	P415007	
		Vanadium	6.0	U	ug/L	P415007	
		Zinc	15	U	ug/L	P415007	
		Aluminum	64	I	ug/L	P415007	
		Antimony	0.20	U	ug/L	P415007	
		Arsenic	2.06		ug/L	P415007	
		Beryllium	0.10	U	ug/L	P415007	
		Cadmium	0.080	U	ug/L	P415007	
		Chromium	1.6	U	ug/L	P415007	
		Cobalt	0.21	I	ug/L	P415007	
		Copper	1.6	U	ug/L	P415007	
		Lead	0.80	U	ug/L	P415007	
		Manganese	19.2		ug/L	P415007	
		Molybdenum	5.1		ug/L	P415007	
		Nickel	2.0	U	ug/L	P415007	
		Selenium	0.80	U	ug/L	P415007	
		Silver	0.040	U	ug/L	P415007	
		Thallium	0.40	U	ug/L	P415007	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 8270E: MS accuracy for atrazine and metolachlor not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium and magnesium are unavailable because of high analyte concentration in the QC sample.

Sample Location: MYAKKA RIVER (TIDAL) @ US 41

Collection Date/Time: 06/07/2022 11:15

Field ID: G3SD0068

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332906	EPA 180.1 Rev. 2.0	Turbidity	2.6		NTU	P414916	
	SM 2320 B-2011	Total Alkalinity	93		mg CaCO3/L	P415497	
	SM 2540 D-2011	TSS	9	I	mg/L	P415251	
	SM 4500-F- C-2011	Fluoride	0.68		mg F/L	P415762	
2332907	EPA 350.1 Rev. 2.0	Ammonia-N	0.010		mg N/L	P415671	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.85		mg N/L	P415360	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	I	mg N/L	P415636	
	EPA 365.1 Rev. 2.0	Total-P	0.20		mg P/L	P415015	
	SM 5310 B-2011	Organic Carbon	11		mg C/L	P415296	
2332926	EPA 8270E	Oxybenzone**	9.6	U	ng/L	P415071	
		Acetochlor	0.24	U	ng/L	P415071	
		Octinoxate**	19	U	ng/L	P415071	
		Alachlor	0.24	U	ng/L	P415071	
		Avobenzone**	96	U	ng/L	P415071	
		Ametryn	0.58	U	ng/L	P415071	
		Atrazine	25		ng/L	P415071	
		Atrazine Desethyl	3.7	I	ng/L	P415071	
		Azinphos Methyl	1.9	U	ng/L	P415071	
		Azoxystrobin**	0.70	I	ng/L	P415071	
		Bromacil	0.48	U	ng/L	P415071	
		Butylate	0.38	U	ng/L	P415071	
		Caffeine**	9.0	I	ng/L	P415071	
		Carbophenothion	0.19	U	ng/L	P415071	
		Carfentrazone Ethyl**	0.096	U	ng/L	P415071	
		Chlorfenapyr**	0.17	U	ng/L	P415071	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P415071	
		Chlorpyrifos Methyl	0.048	U	ng/L	P415071	
		Coumaphos**	0.48	U	ng/L	P415071	
		Cyanazine	3.1	U	ng/L	P415071	
		Cyprodinil**	0.096	U	ng/L	P415071	
		Demeton	1.4	U	ng/L	P415071	
		Diazinon	0.12	U	ng/L	P415071	
		Difenoconazole**	0.58	U	ng/L	P415071	
		Dimethenamid**	0.096	U	ng/L	P415071	
		Dimethomorph**	0.17	U	ng/L	P415071	
		Disulfoton	0.48	U	ng/L	P415071	
		Dithiopyr**	0.17	U	ng/L	P415071	
		EPTC	1.2	U	ng/L	P415071	
		Ethion	0.14	U	ng/L	P415071	
		Ethoprop	0.096	U	ng/L	P415071	
		Etridiazole**	0.14	U	ng/L	P415071	
		Fenamiphos	0.48	U	ng/L	P415071	
		Fenbuconazole**	0.12	U	ng/L	P415071	
		Fipronil	0.24	U	ng/L	P415071	

Field ID: G3SD0068

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332926	EPA 8270E	Fipronil Desulfinyl**	0.28	I	ng/L	P415071	
		Fipronil Sulfide	0.14	U	ng/L	P415071	
		Fipronil Sulfone	0.30	I	ng/L	P415071	
		Fluazifop-P-butyl**	0.096	U	ng/L	P415071	
		Fludioxonil**	0.12	U	ng/L	P415071	
		Flumioxazin**	1.7	U	ng/L	P415071	
		Flutolanil**	0.63		ng/L	P415071	
		Fluxapyroxad**	0.096	U	ng/L	P415071	
		Fonofos	0.19	U	ng/L	P415071	
		Hexazinone	7.5		ng/L	P415071	
		Imazalil**	0.72	U	ng/L	P415071	
		Iprodione**	0.58	U	ng/L	P415071	
		Loratadine**	0.096	U	ng/L	P415071	
		Malathion	0.34	U	ng/L	P415071	
		Metalaxyl	0.74	I	ng/L	P415071	
		Metolachlor	2.9		ng/L	P415071	
		Metribuzin	2.4	U	ng/L	P415071	
		Mevinphos	1.0	U	ng/L	P415071	
		Molinate	0.29	U	ng/L	P415071	
		Myclobutanil**	0.24	U	ng/L	P415071	
		Naled**	1.4	UJ	ng/L	P415071	LCS
		Napropamide**	0.38	U	ng/L	P415071	
		Norflurazon	1.0	I	ng/L	P415071	
		Oxadiazon	0.60	I	ng/L	P415071	
		Oxyfluorfen**	0.14	U	ng/L	P415071	
		Parathion Ethyl	0.24	U	ng/L	P415071	
		Parathion Methyl	0.53	U	ng/L	P415071	
		Pendimethalin	0.96	U	ng/L	P415071	
		Phenytol**	3.4	U	ng/L	P415071	
		Phorate	0.50	U	ng/L	P415071	
		Prodiamine**	0.17	U	ng/L	P415071	
		Prometon	0.87	U	ng/L	P415071	
		Prometryn	0.19	U	ng/L	P415071	
		Pronamide**	0.14	U	ng/L	P415071	
		Propanil**	0.12	U	ng/L	P415071	
		Propargite**	1.4	U	ng/L	P415071	
		Propiconazole**	0.48	U	ng/L	P415071	
		Pyraflufen Ethyl**	0.24	U	ng/L	P415071	
		Pyridaben**	0.43	U	ng/L	P415071	
		Pyriproxyfen**	0.12	U	ng/L	P415071	
		Simazine	0.48	U	ng/L	P415071	
		Stirophos**	0.12	UJ	ng/L	P415071	LCS, MS, RPD
		Sulfentrazone**	1.5	I	ng/L	P415071	
		Tebuconazole**	0.81	I	ng/L	P415071	

Field ID: G3SD0068

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332926	EPA 8270E	Terbufos	0.096	U	ng/L	P415071	
		Terbutylazine	0.41	U	ng/L	P415071	
		Thiobencarb**	0.58	U	ng/L	P415071	
		Triadimefon**	0.24	U	ng/L	P415071	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8270E: MS accuracy for atrazine and metolachlor not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: ALLIGATOR @JACARANDA

Collection Date/Time: 06/07/2022 11:45

Field ID: G2SD0026

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332927	EPA 8270E	Aldrin	0.67	U	ng/L	P414979	
		Alpha-BHC	0.10	U	ng/L	P414979	
		Alpha-Chlordane	0.21	U	ng/L	P414979	
		PCB-1016	2.1	U	ng/L	P414979	
		Beta-BHC	0.10	U	ng/L	P414979	
		PCB-1221	2.1	U	ng/L	P414979	
		Beta-Cyfluthrin**	1.3	U	ng/L	P414979	
		PCB-1232	2.1	U	ng/L	P414979	
		Bifenthrin**	0.52	U	ng/L	P414979	
		PCB-1242	2.1	U	ng/L	P414979	
		Carbophenothion	0.93	U	ng/L	P414979	
		PCB-1248	2.1	U	ng/L	P414979	
		Chlorothalonil	1.3	U	ng/L	P414979	
		PCB-1254	2.1	U	ng/L	P414979	
		Cis-Nonachlor**	0.21	U	ng/L	P414979	
		PCB-1260	2.1	U	ng/L	P414979	
		Cypermethrin	1.6	U	ng/L	P414979	
		Dacthal**	0.16	U	ng/L	P414979	
		DDD-p,p'	0.26	U	ng/L	P414979	
		DDE-p,p'	0.21	U	ng/L	P414979	
		DDT-p,p'	0.26	U	ng/L	P414979	
		Delta-BHC	0.41	UJ	ng/L	P414979	LCS
		Deltamethrin**	1.3	U	ng/L	P414979	
		Dichlobenil**	0.26	U	ng/L	P414979	
		Dicofol	1.3	U	ng/L	P414979	
		Dieldrin	0.41	U	ng/L	P414979	
		Endosulfan I	0.41	U	ng/L	P414979	
		Endosulfan II	0.41	U	ng/L	P414979	
		Endosulfan Sulfate	0.31	U	ng/L	P414979	
		Endrin	0.41	U	ng/L	P414979	
		Endrin Aldehyde	0.78	U	ng/L	P414979	
		Endrin Ketone	0.41	U	ng/L	P414979	
		Esfenvalerate**	0.78	U	ng/L	P414979	
		Ethalfuralin**	0.16	U	ng/L	P414979	
		Fenpropathrin**	0.26	U	ng/L	P414979	
		Gamma-BHC	0.13	U	ng/L	P414979	
		Gamma-Chlordane	0.21	U	ng/L	P414979	
		Heptachlor	0.21	U	ng/L	P414979	
		Heptachlor Epoxide	0.26	U	ng/L	P414979	
		Hexachlorobenzene**	1.0	U	ng/L	P414979	
		Kepone**	5.2	UJ	ng/L	P414979	LCS, MS
		Lambda-Cyhalothrin**	0.78	U	ng/L	P414979	
		Methoprene**	0.78	U	ng/L	P414979	
		Methoxychlor	0.31	U	ng/L	P414979	

Field ID: G2SD0026

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332927	EPA 8270E	MGK-264**	0.21	U	ng/L	P414979	
		Mirex	0.72	U	ng/L	P414979	
		Oxychlordane**	0.31	U	ng/L	P414979	
		Permethrin	1.7	U	ng/L	P414979	
		Phenothrin**	0.93	U	ng/L	P414979	
		Piperonyl Butoxide**	0.45	I	ng/L	P414979	
		Prallethrin**	2.1	U	ng/L	P414979	
		Tau-Fluvalinate**	0.26	U	ng/L	P414979	
		Tetramethrin**	0.78	U	ng/L	P414979	
		Trans-Nonachlor**	0.21	U	ng/L	P414979	
		Triclosan Methyl**	0.16	U	ng/L	P414979	
		Trifluralin	0.21	U	ng/L	P414979	
		Chlordane	2.6	U	ng/L	P414979	
2332928	EPA 8321B	Toxaphene	16	U	ng/L	P414979	
		Acesulfame K	0.10	U	ug/L	P414891	
		2,4-D	0.096		ug/L	P414890	
		2,4,5-T	0.0040	U	ug/L	P414890	
		AMPA	0.42	J	ug/L	P414891	MS
		Acetaminophen	0.0080	U	ug/L	P414890	
		Endothall	0.25	U	ug/L	P414891	
		Acetamiprid	0.0020	U	ug/L	P414890	
		Glufosinate	0.10	U	ug/L	P414891	
		Glyphosate	1.2		ug/L	P414891	
		Afidopypropen	0.0020	U	ug/L	P414890	
		Sucralose	2.6		ug/L	P414891	
		Bentazon	0.019		ug/L	P414890	
		Benzovindiflupyr	0.0020	U	ug/L	P414890	
		Carbamazepine	0.0079		ug/L	P414890	
		Clothianidin	0.0026	I	ug/L	P414890	
		Dinotefuran	0.0032	I	ug/L	P414890	
		Diuron	0.0077	I	ug/L	P414890	
		Fenuron	0.032	U	ug/L	P414890	
		Fluridone	0.0084		ug/L	P414890	
		Imazapyr	0.22		ug/L	P414890	
		Hydrocodone	0.0020	U	ug/L	P414890	
		Ibuprofen	0.080	U	ug/L	P414890	
		Imidacloprid	0.023		ug/L	P414890	
		Linuron	0.0040	U	ug/L	P414890	
		Mandestrobin	0.0020	U	ug/L	P414890	
		MCP	0.0040	U	ug/L	P414890	
		Naproxen	0.0080	U	ug/L	P414890	
		Primidone	0.028		ug/L	P414890	
		Pyraclostrobin	0.0020	U	ug/L	P414890	
		Silvex	0.0040	U	ug/L	P414890	
		Thiamethoxam	0.0020	U	ug/L	P414890	

Field ID: G2SD0026

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332928	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P414890	
		Triclopyr	0.0040	U	ug/L	P414890	

Ref. Method and Comment:
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8321B: MS accuracy for sucralose could not be assessed due to high concentration of parameter in the spiked sample. Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P414916

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P415007

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Titanium	0.75	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P415007

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Beryllium	0.010	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415379

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415671

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414858

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415098

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415360

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P415636

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415015

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

Reference Method: EPA 8270E
Batch ID: P414979

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Carbophenothion	0.90	U	ng/L
Carbophenothion	0.90	U	ng/L
Chlorothalonil	1.2	U	ng/L
Chlorothalonil	1.2	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P414979

Component	Result	Code	Units
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.70	U	ng/L
Mirex	0.70	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P414979

Component	Result	Code	Units
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8270E

Batch ID: P415071

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415071

Component	Result	Code	Units
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415071

Component	Result	Code	Units
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415071

Component	Result	Code	Units
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiatone	0.18	U	ng/L
Prodiatone	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L
Terbutylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8276

Batch ID: P414979

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: EPA 8276

Batch ID: P414979

Component	Result	Code	Units
Chlordane	2.5	U	ng/L
Chlordane	2.5	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: EPA 8321B

Batch ID: P414890

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0040	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B

Batch ID: P414891

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 2320 B-2011

Batch ID: P415497

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P415497

Component	Result	Code	Units
Total Alkalinity	1.0	U	mg CaCO ₃ /L

Reference Method: SM 2540 D-2011
Batch ID: P415251

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P415762

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P415296

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P414916

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P415007

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	103		P	85 - 115
Iron	105		P	85 - 115
Magnesium	101		P	85 - 115
Strontium	105		P	85 - 115
Tin	101		P	85 - 115
Titanium	102		P	85 - 115
Vanadium	96.4		P	85 - 115
Zinc	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P415007

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	103		P	85 - 115
Antimony	102		P	85 - 115
Arsenic	99.7		P	85 - 115
Beryllium	97.0		P	85 - 115
Cadmium	100		P	85 - 115
Chromium	98.0		P	85 - 115
Cobalt	99.0		P	85 - 115
Copper	96.8		P	85 - 115
Lead	103		P	85 - 115
Manganese	99.3		P	85 - 115
Molybdenum	102		P	85 - 115
Nickel	98.4		P	85 - 115
Selenium	98.0		P	85 - 115
Silver	99.7		P	85 - 115
Thallium	104		P	85 - 115

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415379

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415671

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.0		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414858

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415098

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: P415360

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P415636

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: P415015

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

Reference Method: EPA 8270E
Batch ID: P414979

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	74.6		P	10 - 93.0
Alpha-BHC	97.9		P	75 - 106
Alpha-Chlordane	99.3		P	50 - 109
Beta-BHC	81.4		P	36 - 138
Beta-Cyfluthrin	111		P	23 - 167
Bifenthrin	72.8		P	11 - 123
Carbophenothion	84.0		P	18 - 96.0
Chlorothalonil	124		P	27 - 190
Cis-Nonachlor	84.5		P	40 - 111
Cypermethrin	97.3		P	25 - 155
Dacthal	105		P	72 - 119
DDD-p,p'	85.6		P	47 - 108
DDE-p,p'	89.1		P	48 - 107
DDT-p,p'	93.6		P	49 - 111
Delta-BHC	140		F	54 - 138
Deltamethrin	135		P	22 - 189
Dichlobenil	89.3		P	32 - 113
Dicofol	88.1		P	50 - 108
Dieldrin	87.1		P	56 - 110
Endosulfan I	94.3		P	60 - 105
Endosulfan II	104		P	50 - 120
Endosulfan Sulfate	108		P	55 - 121
Endrin	98.1		P	31 - 119
Endrin Aldehyde	90.6		P	36 - 116
Endrin Ketone	99.3		P	69 - 177
Esfenvalerate	111		P	10 - 179
Ethalfuralin	92.5		P	49 - 99.0
Fenpropathrin	89.7		P	35 - 119

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P414979

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Gamma-BHC	118		P	69 - 120
Gamma-Chlordane	92.5		P	45 - 107
Heptachlor	71.3		P	41 - 100
Heptachlor Epoxide	89.2		P	58 - 106
Hexachlorobenzene	87.6		P	39 - 100
Kepone	245		F	10 - 191
Lambda-Cyhalothrin	80.4		P	21 - 206
Methoprene	83.1		P	10 - 129
Methoxychlor	96.3		P	61 - 111
MGK-264	101		P	20 - 123
Mirex	73.1		P	10 - 182
Oxychlordane	95.6		P	39 - 110
PCB-1016	67.3		P	49 - 111
PCB-1260	96.7		P	42 - 116
Permethrin	95.4		P	26 - 152
Phenothrin	65.8		P	10 - 109
Piperonyl Butoxide	136		P	19 - 147
Prallethrin	103		P	14 - 109
Tau-Fluvalinate	99.9		P	16 - 134
Tetramethrin	117		P	10 - 125
Trans-Nonachlor	86.3		P	45 - 107
Triclosan Methyl	93.7		P	60 - 110
Trifluralin	90.5		P	44 - 101

Reference Method: EPA 8270E

Batch ID: P415071

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	111		P	70 - 121
Alachlor	100		P	68 - 119
Ametryn	118		P	64 - 139
Atrazine	98.4		P	76 - 120
Atrazine Desethyl	69.9		P	44 - 126
Avobenzone	107		P	76 - 212
Azinphos Methyl	170		P	43 - 192
Azoxystrobin	96.9		P	36 - 224
Bromacil	95.7		P	52 - 121
Butylate	41.7		P	28 - 91.0
Caffeine	74.0		P	50 - 134
Carbophenothion	95.9		P	56 - 129
Carfentrazone Ethyl	129		P	60 - 141
Chlorfenapyr	81.8		P	56 - 115
Chlorpyrifos Ethyl	82.6		P	60 - 118
Chlorpyrifos Methyl	82.3		P	68 - 119
Coumaphos	114		P	18 - 250
Cyanazine	159		P	61 - 250
Cyprodinil	111		P	55 - 145
Demeton	64.4		P	30 - 159
Diazinon	107		P	70 - 123
Difenoconazole	197		P	49 - 204
Dimethenamid	93.4		P	64 - 115
Dimethomorph	77.1		P	12 - 219

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P415071

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Disulfoton	75.9		P	44 - 125
Dithiopyr	104		P	64 - 115
EPTC	44.1		P	28 - 86.0
Ethion	73.7		P	33 - 125
Ethoprop	71.1		P	64 - 116
Etridiazole	67.5		P	34 - 91.0
Fenamiphos	87.9		P	12 - 127
Fenbuconazole	146		P	59 - 151
Fipronil	108		P	67 - 129
Fipronil Desulfinyl	105		P	65 - 127
Fipronil Sulfide	78.5		P	61 - 116
Fipronil Sulfone	86.1		P	55 - 117
Fluazifop-P-butyl	103		P	62 - 127
Fludioxonil	112		P	62 - 128
Flumioxazin	222		P	33 - 250
Flutolanil	97.3		P	56 - 127
Fluxapyroxad	84.3		P	45 - 128
Fonofos	72.2		P	62 - 111
Hexazinone	98.0		P	46 - 139
Imazalil	94.2		P	38 - 142
Iprodione	107		P	47 - 135
Loratadine	69.4		P	10 - 244
Malathion	101		P	61 - 139
Metalaxyl	96.0		P	10 - 119
Metolachlor	106		P	65 - 118
Metribuzin	91.5		P	51 - 250
Mevinphos	58.6		P	53 - 121
Molinate	55.9		P	42 - 96.0
Myclobutanil	110		P	55 - 128
Naled	105		F	10 - 98.0
Napropamide	86.0		P	49 - 121
Norflurazon	117		P	61 - 126
Octinoxate	102		P	30 - 159
Oxadiazon	90.7		P	59 - 116
Oxybenzone	99.0		P	61 - 139
Oxyfluorfen	129		P	64 - 137
Parathion Ethyl	89.9		P	70 - 112
Parathion Methyl	106		P	76 - 133
Pendimethalin	81.7		P	52 - 117
Phenytol	112		P	10 - 199
Phorate	50.8		P	48 - 121
Prodiamine	98.4		P	26 - 142
Prometon	107		P	43 - 123
Prometryn	102		P	66 - 127
Pronamide	112		P	75 - 121
Propanil	88.5		P	45 - 150
Propargite	145		P	42 - 208
Propiconazole	110		P	60 - 125
Pyraflufen Ethyl	117		P	70 - 138
Pyridaben	99.3		P	35 - 245
Pyriproxyfen	142		P	30 - 149
Simazine	98.6		P	72 - 125

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P415071

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Stiropfos	16.8		F	29 - 164
Sulfentrazone	139		P	21 - 139
Tebuconazole	58.1		P	10 - 115
Terbufos	80.0		P	60 - 123
Terbuthylazine	89.8		P	72 - 115
Thiobencarb	96.6		P	31 - 139
Triadimefon	87.4		P	65 - 116

Reference Method: EPA 8276
Batch ID: P414979

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	105		P	61 - 118
Toxaphene	106		P	51 - 122

Reference Method: EPA 8321B
Batch ID: P414890

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	89.2		P	40 - 150
2,4,5-T	79.4		P	40 - 150
Acetaminophen	92.8		P	30 - 150
Acetamiprid	74.0		P	40 - 150
Afidopyropen	66.4		P	30 - 150
Bentazon	114		P	30 - 150
Benzovindiflupyr	59.5		P	40 - 150
Carbamazepine	79.6		P	40 - 150
Clothianidin	93.6		P	40 - 150
Dinotefuran	91.0		P	40 - 150
Diuron	79.5		P	40 - 150
Fenuron	88.9		P	40 - 150
Fluridone	88.0		P	40 - 150
Hydrocodone	86.9		P	40 - 150
Ibuprofen	97.7		P	40 - 150
Imazapyr	108		P	40 - 150
Imidacloprid	85.0		P	40 - 150
Linuron	67.0		P	40 - 150
Mandestrobin	63.8		P	40 - 150
MCPP	107		P	40 - 150
Naproxen	98.2		P	40 - 150
Primidone	91.4		P	40 - 150
Pyraclostrobin	52.0		P	40 - 150
Silvex	67.5		P	40 - 150
Thiamethoxam	88.7		P	40 - 150
Tolfenpyrad	37.1		P	30 - 150
Triclopyr	76.8		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P414891

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	102		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P414891

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
AMPA	97.9		P	40 - 150
Endothall	72.4		P	40 - 150
Glufosinate	104		P	40 - 150
Glyphosate	92.8		P	40 - 150
Sucralose	96.9		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P415497

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P415762

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P415296

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.5		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P415007

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333582	Iron	108	106	P/P	70 - 130
2333582	Strontium	110	108	P/P	70 - 130
2333582	Tin	91.4	97.6	P/P	70 - 130
2333582	Titanium	108	111	P/P	70 - 130
2333582	Vanadium	97.6	99.6	P/P	70 - 130
2333582	Zinc	100	101	P/P	70 - 130

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P415007

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333582	Aluminum	103	105	P/P	70 - 130
2333582	Antimony	101	104	P/P	70 - 130
2333582	Arsenic	111	114	P/P	70 - 130
2333582	Beryllium	109	115	P/P	70 - 130
2333582	Cadmium	96.1	97.1	P/P	70 - 130
2333582	Chromium	96.3	101	P/P	70 - 130
2333582	Cobalt	110	114	P/P	70 - 130
2333582	Copper	105	110	P/P	70 - 130
2333582	Lead	105	109	P/P	70 - 130
2333582	Manganese	95.8	105	P/P	70 - 130
2333582	Molybdenum	110	116	P/P	70 - 130
2333582	Nickel	110	114	P/P	70 - 130
2333582	Selenium	102	106	P/P	70 - 130
2333582	Silver	92.6	95.0	P/P	70 - 130
2333582	Thallium	107	111	P/P	70 - 130

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P415379

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332735	Ammonia-N	108	107	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P415671

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333003	Ammonia-N	102	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P414858

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331016	Kjeldahl Nitrogen	95.6	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P415098

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332903	Kjeldahl Nitrogen	107	101	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P415360

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332907	Kjeldahl Nitrogen	108	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P415636

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332907	NO2NO3-N	98.3	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P415015

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332905	Total-P	101	102	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P414979

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332611	Aldrin	73.2	70.7	P/P	10 - 89.0
2332611	Alpha-BHC	97.9	99.4	P/P	71 - 105
2332611	Alpha-Chlordane	95.3	99.1	P/P	43 - 107
2332611	Beta-BHC	76.5	82.4	P/P	57 - 152
2332611	Beta-Cyfluthrin	103	98.1	P/P	29 - 186
2332611	Bifenthrin	75.0	80.3	P/P	19 - 119
2332611	Carbophenothion	81.2	83.3	P/P	19 - 107
2332611	Chlorothalonil	122	115	P/P	10 - 245
2332611	Cis-Nonachlor	90.5	96.4	P/P	36 - 110
2332611	Cypermethrin	95.6	102	P/P	24 - 169
2332611	Dacthal	107	102	P/P	62 - 115
2332611	DDD-p,p'	92.5	97.2	P/P	36 - 109
2332611	DDE-p,p'	92.0	91.2	P/P	30 - 114
2332611	DDT-p,p'	92.6	88.9	P/P	42 - 108
2332611	Delta-BHC	143	137	P/P	60 - 164
2332611	Deltamethrin	122	109	P/P	10 - 210
2332611	Dichlobenil	82.8	97.0	P/P	23 - 108
2332611	Dicofol	88.5	85.2	P/P	44 - 109
2332611	Dieldrin	92.4	100	P/P	37 - 119
2332611	Endosulfan I	93.2	99.4	P/P	52 - 105
2332611	Endosulfan II	96.4	92.8	P/P	35 - 127
2332611	Endosulfan Sulfate	96.4	89.2	P/P	39 - 130
2332611	Endrin	91.8	90.8	P/P	30 - 116
2332611	Endrin Aldehyde	88.9	81.2	P/P	20 - 110
2332611	Endrin Ketone	95.1	98.2	P/P	48 - 134
2332611	Esfenvalerate	104	96.4	P/P	10 - 199
2332611	Ethalfuralin	89.1	93.4	P/P	48 - 95.0
2332611	Fenpropathrin	81.8	85.6	P/P	37 - 121
2332611	Gamma-BHC	120	118	P/P	61 - 126
2332611	Gamma-Chlordane	91.2	95.4	P/P	39 - 105
2332611	Heptachlor	75.6	83.6	P/P	38 - 96.0
2332611	Heptachlor Epoxide	89.6	99.7	P/P	42 - 114
2332611	Hexachlorobenzene	85.9	90.4	P/P	39 - 93.0
2332611	Kepone	227	201	F/P	10 - 215

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P414979

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332611	Lambda-Cyhalothrin	81.5	82.3	P/P	10 - 204
2332611	Methoprene	80.8	82.6	P/P	17 - 108
2332611	Methoxychlor	90.4	86.2	P/P	56 - 115
2332611	MGK-264	98.0	99.9	P/P	35 - 120
2332611	Mirex	76.5	78.3	P/P	10 - 178
2332611	Oxychlorane	90.2	87.2	P/P	47 - 91.0
2332611	Permethrin	99.3	95.6	P/P	27 - 170
2332611	Phenothrin	68.1	78.2	P/P	10 - 133
2332611	Piperonyl Butoxide	128	145	P/P	23 - 150
2332611	Prallethrin	94.7	89.9	P/P	21 - 113
2332611	Tau-Fluvalinate	91.0	86.7	P/P	16 - 158
2332611	Tetramethrin	117	113	P/P	22 - 132
2332611	Trans-Nonachlor	89.1	87.7	P/P	43 - 102
2332611	Triclosan Methyl	94.8	100	P/P	49 - 109
2332611	Trifluralin	88.7	88.6	P/P	48 - 93.0
2333132	PCB-1016	101	92.4	P/P	46 - 110
2333132	PCB-1260	97.3	94.4	P/P	42 - 111

Reference Method: EPA 8270E

Batch ID: P415071

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332309	Acetochlor	88.5	106	P/P	65 - 124
2332309	Alachlor	83.7	96.4	P/P	61 - 121
2332309	Ametryn	108	108	P/P	52 - 216
2332309	Atrazine Desethyl	50.1	61.9	P/P	15 - 160
2332309	Avobenzone	82.1	69.3	P/P	59 - 206
2332309	Azinphos Methyl	143	170	P/P	40 - 292
2332309	Azoxystrobin	70.1	109	P/P	12 - 242
2332309	Bromacil	79.3	96.5	P/P	54 - 167
2332309	Butylate	42.4	54.1	P/P	14 - 94.0
2332309	Caffeine	88.8	83.6	P/P	10 - 226
2332309	Carbophenothion	88.4	99.7	P/P	49 - 122
2332309	Carfentrazone Ethyl	108	125	P/P	53 - 138
2332309	Chlorfenapyr	81.0	85.7	P/P	50 - 150
2332309	Chlorpyrifos Ethyl	75.6	82.4	P/P	52 - 122
2332309	Chlorpyrifos Methyl	80.2	86.5	P/P	66 - 117
2332309	Coumaphos	110	113	P/P	50 - 220
2332309	Cyanazine	94.0	113	P/P	43 - 245
2332309	Cyprodinil	93.4	103	P/P	50 - 150
2332309	Demeton	77.4	84.7	P/P	43 - 188
2332309	Diazinon	88.5	99.9	P/P	69 - 131
2332309	Difenoconazole	174	196	P/P	34 - 231
2332309	Dimethenamid	82.1	91.6	P/P	55 - 118
2332309	Dimethomorph	78.6	82.9	P/P	50 - 150
2332309	Disulfoton	80.4	84.6	P/P	38 - 141
2332309	Dithiopyr	87.6	94.9	P/P	42 - 116
2332309	EPTC	36.2	52.3	P/P	18 - 85.0
2332309	Ethion	75.8	76.3	P/P	10 - 131
2332309	Ethoprop	71.9	81.3	P/P	65 - 129
2332309	Etridiazole	52.2	63.5	P/P	50 - 150
2332309	Fenamiphos	95.0	99.3	P/P	31 - 137

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P415071

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332309	Fenbuconazole	126	148	P/P	57 - 160
2332309	Fipronil	91.9	106	P/P	62 - 132
2332309	Fipronil Desulfinyl	85.5	99.0	P/P	57 - 131
2332309	Fipronil Sulfide	78.1	83.6	P/P	15 - 138
2332309	Fipronil Sulfone	85.6	92.3	P/P	21 - 134
2332309	Fluazifop-P-butyl	84.7	98.0	P/P	54 - 133
2332309	Fludioxonil	88.9	111	P/P	58 - 127
2332309	Flumioxazin	202	228	P/P	33 - 300
2332309	Flutolanil	82.6	95.3	P/P	42 - 130
2332309	Fluxapyroxad	62.7	84.0	P/P	23 - 141
2332309	Fonofos	73.6	75.7	P/P	58 - 119
2332309	Hexazinone	89.4	98.2	P/P	68 - 172
2332309	Imazalil	79.1	107	P/P	48 - 283
2332309	Iprodione	103	113	P/P	38 - 140
2332309	Loratadine	73.1	75.0	P/P	50 - 150
2332309	Malathion	97.3	107	P/P	40 - 137
2332309	Metalaxyl	79.8	88.0	P/P	21 - 129
2332309	Metribuzin	105	120	P/P	38 - 187
2332309	Mevinphos	65.6	69.0	P/P	54 - 134
2332309	Molinate	51.1	65.8	P/P	41 - 97.0
2332309	Myclobutanil	95.1	110	P/P	56 - 125
2332309	Naled	92.5	108	P/P	10 - 108
2332309	Napropamide	76.9	82.4	P/P	50 - 150
2332309	Norflurazon	102	115	P/P	32 - 122
2332309	Octinoxate	66.5	51.7	P/P	25 - 150
2332309	Oxadiazon	78.0	85.4	P/P	40 - 119
2332309	Oxybenzone	70.2	59.6	P/P	59 - 147
2332309	Oxyfluorfen	114	122	P/P	61 - 153
2332309	Parathion Ethyl	81.7	93.3	P/P	59 - 130
2332309	Parathion Methyl	103	113	P/P	65 - 155
2332309	Pendimethalin	90.4	101	P/P	49 - 138
2332309	Phenytoin	95.3	107	P/P	50 - 200
2332309	Phorate	72.7	83.1	P/P	54 - 161
2332309	Prodiamine	91.9	106	P/P	33 - 161
2332309	Prometon	71.8	82.6	P/P	48 - 140
2332309	Prometryn	93.3	96.5	P/P	55 - 134
2332309	Pronamide	99.3	111	P/P	66 - 137
2332309	Propanil	76.2	85.6	P/P	50 - 150
2332309	Propargite	117	142	P/P	50 - 200
2332309	Propiconazole	86.7	107	P/P	36 - 150
2332309	Pyraflufen Ethyl	98.5	113	P/P	50 - 150
2332309	Pyridaben	93.4	97.9	P/P	50 - 200
2332309	Pyriproxyfen	120	145	P/P	10 - 165
2332309	Simazine	93.6	106	P/P	57 - 145
2332309	Stirophos	81.4	30.2	P/F	50 - 150
2332309	Sulfentrazone	94.4	109	P/P	34 - 140
2332309	Tebuconazole	56.9	63.2	P/P	10 - 127
2332309	Terbufos	80.9	92.1	P/P	59 - 138
2332309	Terbutylazine	82.4	91.9	P/P	68 - 119
2332309	Thiobencarb	79.7	92.3	P/P	50 - 150
2332309	Triadimefon	70.7	69.6	P/P	50 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8276

Batch ID: P414979

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333132	Chlordane	105	105	P/P	55 - 128
2333132	Toxaphene	127	126	P/P	57 - 211

Reference Method: EPA 8321B

Batch ID: P414890

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333031	2,4-D	113	101	P/P	40 - 150
2333031	2,4,5-T	103	84.0	P/P	40 - 150
2333031	Acetaminophen	125	105	P/P	30 - 150
2333031	Acetamiprid	98.4	84.8	P/P	40 - 150
2333031	Afidopyropen	89.5	78.1	P/P	30 - 150
2333031	Bentazon	123	102	P/P	30 - 150
2333031	Benzovindiflupyr	66.6	59.0	P/P	40 - 150
2333031	Carbamazepine	95.9	82.7	P/P	40 - 150
2333031	Clothianidin	110	93.9	P/P	40 - 150
2333031	Dinotefuran	123	103	P/P	40 - 150
2333031	Diuron	93.9	79.9	P/P	40 - 150
2333031	Fenuron	97.3	83.3	P/P	40 - 150
2333031	Fluridone	102	89.1	P/P	40 - 150
2333031	Hydrocodone	108	90.7	P/P	40 - 150
2333031	Ibuprofen	92.5	95.2	P/P	40 - 150
2333031	Imazapyr	135	114	P/P	40 - 150
2333031	Imidacloprid	113	88.2	P/P	40 - 150
2333031	Linuron	77.4	70.0	P/P	40 - 150
2333031	Mandestrobin	70.0	62.8	P/P	40 - 150
2333031	MCPP	139	116	P/P	40 - 150
2333031	Naproxen	100	75.2	P/P	40 - 150
2333031	Primidone	111	101	P/P	40 - 150
2333031	Pyraclostrobin	63.7	56.5	P/P	40 - 150
2333031	Silvex	97.3	76.0	P/P	40 - 150
2333031	Thiamethoxam	105	90.9	P/P	40 - 150
2333031	Tolfenpyrad	42.1	37.4	P/P	30 - 150
2333031	Triclopyr	103	78.3	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P414891

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332928	Acesulfame K	82.6	84.8	P/P	40 - 150
2332928	AMPA	37.9	37.6	F/F	40 - 150
2332928	Endothall	89.4	86.8	P/P	40 - 150
2332928	Glufosinate	50.9	53.8	P/P	40 - 150
2332928	Glyphosate	48.7	52.1	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P415762

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331472	Fluoride	101	100	P/P	94 - 104

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P415296

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332907	Organic Carbon	88.6	89.7	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P414916

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332874	Turbidity	5.39	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P415007

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333582	Calcium	0.595	Spike	P	0 - 20
2333582	Iron	1.40	Spike	P	0 - 20
2333582	Magnesium	0.133	Spike	P	0 - 20
2333582	Strontium	1.38	Spike	P	0 - 20
2333582	Tin	6.56	Spike	P	0 - 20
2333582	Titanium	2.50	Spike	P	0 - 20
2333582	Vanadium	1.98	Spike	P	0 - 20
2333582	Zinc	1.25	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P415007

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333582	Aluminum	1.74	Spike	P	0 - 20
2333582	Antimony	3.18	Spike	P	0 - 20
2333582	Arsenic	3.33	Spike	P	0 - 20
2333582	Beryllium	5.23	Spike	P	0 - 20
2333582	Cadmium	1.06	Spike	P	0 - 20
2333582	Chromium	4.36	Spike	P	0 - 20
2333582	Cobalt	4.09	Spike	P	0 - 20
2333582	Copper	3.87	Spike	P	0 - 20
2333582	Lead	3.24	Spike	P	0 - 20
2333582	Manganese	4.82	Spike	P	0 - 20
2333582	Molybdenum	4.47	Spike	P	0 - 20
2333582	Nickel	3.21	Spike	P	0 - 20
2333582	Selenium	4.00	Spike	P	0 - 20
2333582	Silver	2.59	Spike	P	0 - 20
2333582	Thallium	4.11	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P415379

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332735	Ammonia-N	1.21	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P415671

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333003	Ammonia-N	1.04	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414858

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331016	Kjeldahl Nitrogen	7.90	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415098

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332903	Kjeldahl Nitrogen	4.47	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415360

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332907	Kjeldahl Nitrogen	3.75	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P415636

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332907	NO2NO3-N	3.83	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415015

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332905	Total-P	1.45	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P414979

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332611	Aldrin	3.53	Spike	P	0 - 37
2332611	Alpha-BHC	1.54	Spike	P	0 - 16
2332611	Alpha-Chlordane	3.89	Spike	P	0 - 28
2332611	Beta-BHC	7.46	Spike	P	0 - 32
2332611	Beta-Cyfluthrin	5.09	Spike	P	0 - 41
2332611	Bifenthrin	6.87	Spike	P	0 - 36
2332611	Carbophenothion	2.52	Spike	P	0 - 30
2332611	Chlorothalonil	6.18	Spike	P	0 - 54
2332611	Cis-Nonachlor	6.37	Spike	P	0 - 33
2332611	Cypermethrin	6.56	Spike	P	0 - 38
2332611	Dacthal	5.11	Spike	P	0 - 23
2332611	DDD-p,p'	4.98	Spike	P	0 - 35
2332611	DDE-p,p'	0.880	Spike	P	0 - 27
2332611	DDT-p,p'	3.99	Spike	P	0 - 31
2332611	Delta-BHC	4.42	Spike	P	0 - 30
2332611	Deltamethrin	10.8	Spike	P	0 - 76

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P414979

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332611	Dichlobenil	15.8	Spike	P	0 - 33
2332611	Dicofol	3.82	Spike	P	0 - 24
2332611	Dieldrin	8.01	Spike	P	0 - 35
2332611	Endosulfan I	6.45	Spike	P	0 - 25
2332611	Endosulfan II	3.74	Spike	P	0 - 31
2332611	Endosulfan Sulfate	7.76	Spike	P	0 - 38
2332611	Endrin	1.05	Spike	P	0 - 53
2332611	Endrin Aldehyde	9.12	Spike	P	0 - 81
2332611	Endrin Ketone	3.16	Spike	P	0 - 33
2332611	Esfenvalerate	8.06	Spike	P	0 - 46
2332611	Ethalfuralin	4.72	Spike	P	0 - 22
2332611	Fenpropathrin	4.60	Spike	P	0 - 29
2332611	Gamma-BHC	1.77	Spike	P	0 - 17
2332611	Gamma-Chlordane	4.44	Spike	P	0 - 28
2332611	Heptachlor	10.0	Spike	P	0 - 28
2332611	Heptachlor Epoxide	10.6	Spike	P	0 - 23
2332611	Hexachlorobenzene	5.18	Spike	P	0 - 22
2332611	Kepone	12.1	Spike	P	0 - 61
2332611	Lambda-Cyhalothrin	0.984	Spike	P	0 - 52
2332611	Methoprene	2.18	Spike	P	0 - 38
2332611	Methoxychlor	4.70	Spike	P	0 - 29
2332611	MGK-264	1.93	Spike	P	0 - 41
2332611	Mirex	2.35	Spike	P	0 - 39
2332611	Oxychlordane	3.41	Spike	P	0 - 33
2332611	Permethrin	3.71	Spike	P	0 - 39
2332611	Phenothrin	13.8	Spike	P	0 - 52
2332611	Piperonyl Butoxide	12.6	Spike	P	0 - 91
2332611	Prallethrin	5.28	Spike	P	0 - 34
2332611	Tau-Fluvalinate	4.82	Spike	P	0 - 41
2332611	Tetramethrin	4.13	Spike	P	0 - 43
2332611	Trans-Nonachlor	1.59	Spike	P	0 - 31
2332611	Triclosan Methyl	5.82	Spike	P	0 - 24
2332611	Trifluralin	0.102	Spike	P	0 - 23
2333132	PCB-1016	8.43	Spike	P	0 - 32
2333132	PCB-1260	2.97	Spike	P	0 - 31

Reference Method: EPA 8270E
Batch ID: P415071

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332309	Acetochlor	15.3	Spike	P	0 - 27
2332309	Alachlor	14.1	Spike	P	0 - 27
2332309	Ametryn	0.402	Spike	P	0 - 34
2332309	Atrazine	11.6	Spike	P	0 - 41
2332309	Atrazine Desethyl	16.2	Spike	P	0 - 38
2332309	Avobenzone	16.8	Spike	P	0 - 30
2332309	Azinphos Methyl	17.1	Spike	P	0 - 62
2332309	Azoxystrobin	22.0	Spike	P	0 - 32
2332309	Bromacil	19.6	Spike	P	0 - 30
2332309	Butylate	24.2	Spike	P	0 - 59

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P415071

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332309	Caffeine	5.89	Spike	P	0 - 60
2332309	Carbophenothion	12.0	Spike	P	0 - 25
2332309	Carfentrazone Ethyl	14.6	Spike	P	0 - 26
2332309	Chlorfenapyr	5.60	Spike	P	0 - 30
2332309	Chlorpyrifos Ethyl	8.59	Spike	P	0 - 27
2332309	Chlorpyrifos Methyl	7.54	Spike	P	0 - 26
2332309	Coumaphos	2.88	Spike	P	0 - 30
2332309	Cyanazine	18.5	Spike	P	0 - 58
2332309	Cyprodinil	8.78	Spike	P	0 - 30
2332309	Demeton	9.01	Spike	P	0 - 25
2332309	Diazinon	12.1	Spike	P	0 - 29
2332309	Difenoconazole	10.4	Spike	P	0 - 25
2332309	Dimethenamid	11.0	Spike	P	0 - 30
2332309	Dimethomorph	5.35	Spike	P	0 - 30
2332309	Disulfoton	5.16	Spike	P	0 - 33
2332309	Dithiopyr	8.00	Spike	P	0 - 22
2332309	EPTC	36.4	Spike	P	0 - 38
2332309	Ethion	0.729	Spike	P	0 - 79
2332309	Ethoprop	12.2	Spike	P	0 - 23
2332309	Etridiazole	19.6	Spike	P	0 - 30
2332309	Fenamiphos	4.45	Spike	P	0 - 58
2332309	Fenbuconazole	16.4	Spike	P	0 - 37
2332309	Fipronil	14.5	Spike	P	0 - 33
2332309	Fipronil Desulfanyl	14.6	Spike	P	0 - 26
2332309	Fipronil Sulfide	6.83	Spike	P	0 - 37
2332309	Fipronil Sulfone	7.56	Spike	P	0 - 50
2332309	Fluazifop-P-butyl	14.5	Spike	P	0 - 24
2332309	Fludioxonil	16.1	Spike	P	0 - 26
2332309	Flumioxazin	12.1	Spike	P	0 - 37
2332309	Flutolanil	13.1	Spike	P	0 - 26
2332309	Fluxapyroxad	13.9	Spike	P	0 - 34
2332309	Fonofos	2.79	Spike	P	0 - 27
2332309	Hexazinone	8.84	Spike	P	0 - 36
2332309	Imazalil	29.9	Spike	P	0 - 65
2332309	Iprodione	9.09	Spike	P	0 - 33
2332309	Loratadine	2.57	Spike	P	0 - 30
2332309	Malathion	9.87	Spike	P	0 - 44
2332309	Metalaxyl	8.98	Spike	P	0 - 38
2332309	Metolachlor	14.5	Spike	P	0 - 36
2332309	Metribuzin	13.9	Spike	P	0 - 63
2332309	Mevinphos	5.01	Spike	P	0 - 26
2332309	Molinate	25.1	Spike	P	0 - 40
2332309	Myclobutanil	14.7	Spike	P	0 - 21
2332309	Naled	15.4	Spike	P	0 - 26
2332309	Napropamide	6.86	Spike	P	0 - 30
2332309	Norflurazon	11.7	Spike	P	0 - 24
2332309	Octinoxate	18.1	Spike	P	0 - 30
2332309	Oxadiazon	9.06	Spike	P	0 - 27
2332309	Oxybenzone	16.4	Spike	P	0 - 30
2332309	Oxyfluorfen	6.89	Spike	P	0 - 24
2332309	Parathion Ethyl	13.2	Spike	P	0 - 28

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P415071

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332309	Parathion Methyl	9.78	Spike	P	0 - 27
2332309	Pendimethalin	10.9	Spike	P	0 - 31
2332309	Phenytoin	11.7	Spike	P	0 - 30
2332309	Phorate	13.3	Spike	P	0 - 27
2332309	Prodiamine	13.9	Spike	P	0 - 52
2332309	Prometon	13.9	Spike	P	0 - 31
2332309	Prometryn	3.32	Spike	P	0 - 28
2332309	Pronamide	11.2	Spike	P	0 - 26
2332309	Propanil	11.6	Spike	P	0 - 30
2332309	Propargite	19.1	Spike	P	0 - 30
2332309	Propiconazole	15.9	Spike	P	0 - 31
2332309	Pyraflufen Ethyl	13.8	Spike	P	0 - 30
2332309	Pyridaben	4.71	Spike	P	0 - 30
2332309	Pyriproxyfen	18.5	Spike	P	0 - 50
2332309	Simazine	12.0	Spike	P	0 - 29
2332309	Stirophos	91.7	Spike	F	0 - 30
2332309	Sulfentrazone	14.7	Spike	P	0 - 33
2332309	Tebuconazole	9.03	Spike	P	0 - 44
2332309	Terbufos	12.9	Spike	P	0 - 29
2332309	Terbutylazine	10.9	Spike	P	0 - 27
2332309	Thiobencarb	14.6	Spike	P	0 - 30
2332309	Triadimefon	1.48	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P414979

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333132	Chlordane	0.573	Spike	P	0 - 25
2333132	Toxaphene	1.10	Spike	P	0 - 24

Reference Method: EPA 8321B
Batch ID: P414890

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333031	2,4-D	10.6	Spike	P	0 - 30
2333031	2,4,5-T	20.0	Spike	P	0 - 30
2333031	Acetaminophen	15.6	Spike	P	0 - 30
2333031	Acetamiprid	14.9	Spike	P	0 - 30
2333031	Afidopyropen	13.7	Spike	P	0 - 30
2333031	Bentazon	15.0	Spike	P	0 - 30
2333031	Benzovindiflupyr	12.1	Spike	P	0 - 30
2333031	Carbamazepine	14.1	Spike	P	0 - 30
2333031	Clothianidin	15.7	Spike	P	0 - 30
2333031	Dinotefuran	17.9	Spike	P	0 - 30
2333031	Diuron	14.6	Spike	P	0 - 30
2333031	Fenuron	15.5	Spike	P	0 - 30
2333031	Fluridone	13.8	Spike	P	0 - 30
2333031	Hydrocodone	17.7	Spike	P	0 - 30
2333031	Ibuprofen	2.93	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
 Batch ID: P414890

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333031	Imazapyr	11.8	Spike	P	0 - 30
2333031	Imidacloprid	20.3	Spike	P	0 - 30
2333031	Linuron	10.1	Spike	P	0 - 30
2333031	Mandestrobin	10.7	Spike	P	0 - 30
2333031	MCPP	17.5	Spike	P	0 - 30
2333031	Naproxen	28.4	Spike	P	0 - 30
2333031	Primidone	9.94	Spike	P	0 - 30
2333031	Pyraclostrobin	12.0	Spike	P	0 - 30
2333031	Silvex	24.6	Spike	P	0 - 30
2333031	Thiamethoxam	14.9	Spike	P	0 - 30
2333031	Tolfenpyrad	11.8	Spike	P	0 - 30
2333031	Triclopyr	26.9	Spike	P	0 - 30

Reference Method: EPA 8321B
 Batch ID: P414891

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332928	Acesulfame K	2.59	Spike	P	0 - 30
2332928	AMPA	0.419	Spike	P	0 - 30
2332928	Endothall	2.91	Spike	P	0 - 30
2332928	Glufosinate	5.63	Spike	P	0 - 30
2332928	Glyphosate	3.45	Spike	P	0 - 30
2332928	Sucralose	14.5	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
 Batch ID: P415497

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333620	Total Alkalinity	0.939	Sample	P	0 - 3.8

Reference Method: SM 4500-F- C-2011
 Batch ID: P415762

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331472	Fluoride	0.480	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
 Batch ID: P415296

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332907	Organic Carbon	0.949	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Surrogates

Lab Sample ID: 2332923
Field Sample ID: G3SD0071

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	102	P	20 - 200
EPA 8270E	Simazine-d10	108	P	71 - 140
EPA 8270E	Terbufos-d10	97.6	P	62 - 131
EPA 8270E	Terphenyl-d14	118	P	52 - 141

Lab Sample ID: 2332924
Field Sample ID: G3SD0070

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	104	P	20 - 200
EPA 8270E	Simazine-d10	115	P	71 - 140
EPA 8270E	Terbufos-d10	93.9	P	62 - 131
EPA 8270E	Terphenyl-d14	82.4	P	52 - 141

Lab Sample ID: 2332925
Field Sample ID: G3SD0208

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	81.7	P	20 - 200
EPA 8270E	Simazine-d10	96.3	P	71 - 140
EPA 8270E	Terbufos-d10	89.4	P	62 - 131
EPA 8270E	Terphenyl-d14	78.2	P	52 - 141

Lab Sample ID: 2332926
Field Sample ID: G3SD0068

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	77.1	P	20 - 200
EPA 8270E	Simazine-d10	91.8	P	71 - 140
EPA 8270E	Terbufos-d10	80.7	P	62 - 131
EPA 8270E	Terphenyl-d14	81.7	P	52 - 141

Lab Sample ID: 2332927
Field Sample ID: G2SD0026

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	91.0	P	38 - 115
EPA 8270E	Decachlorobiphenyl	87.3	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	70.6	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	71.3	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	80.7	P	30 - 97.0
EPA 8276	PCNB	102	P	45 - 119

Lab Sample ID: 2332928
Field Sample ID: G2SD0026

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	111	P	30 - 160
EPA 8321B	Acetaminophen-d4	115	P	30 - 160
EPA 8321B	Carbamazepine-d10	98.4	P	30 - 160
EPA 8321B	Diuron-d6	62.0	P	30 - 160
EPA 8321B	Endothall-d6	111	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2332928
Field Sample ID: G2SD0026

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Glyphosate 13C 15N	45.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	84.3	P	30 - 160
EPA 8321B	Primidone-d5	98.3	P	30 - 160
EPA 8321B	Sucralose-d6	97.2	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A112682

Included Lab Sample IDs: 2332900, 2332901, 2332904, 2332906, 2332908, 2332910

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

Reference Method: EPA 8321B

Run ID: A112689

Included Lab Sample IDs: 2332928

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	106	100	P/P	60 - 160
Endothall	73.4	81.5	P/P	60 - 160
Glufosinate	110	109	P/P	60 - 160
Glyphosate	98.8	100	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A112698

Included Lab Sample IDs: 2332928

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	105	109	P/P	60 - 160
Sucralose	98.4	104	P/P	60 - 160

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A112753

Included Lab Sample IDs: 2332929, 2332930, 2332931

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	102	99.9	P/P	95 - 105
Calcium	99.9	100	P/P	95 - 105
Iron	101	101	P/P	95 - 105
Iron	103	101	P/P	95 - 105
Magnesium	100	101	P/P	95 - 105
Magnesium	102	100	P/P	95 - 105
Strontium	101	103	P/P	95 - 105
Strontium	103	103	P/P	95 - 105
Tin	101	102	P/P	95 - 105
Tin	98.2	101	P/P	95 - 105
Titanium	98.9	99.3	P/P	95 - 105
Titanium	99.3	101	P/P	95 - 105
Vanadium	101	102	P/P	95 - 105
Vanadium	99.1	101	P/P	95 - 105
Zinc	101	103	P/P	95 - 105
Zinc	98.8	101	P/P	95 - 105

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A112761

Included Lab Sample IDs: 2332902

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.3	102	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
 Run ID: A112791
 Included Lab Sample IDs: 2332928

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	106	101	P/P	50 - 150
2,4,5-T	111	102	P/P	50 - 150
Acetaminophen	103	105	P/P	60 - 160
Acetamiprid	88.2	91.0	P/P	50 - 150
Afidopyropen	84.3	77.0	P/P	50 - 150
Bentazon	112	108	P/P	50 - 160
Benzovindiflupyr	79.9	77.2	P/P	50 - 150
Carbamazepine	85.1	83.8	P/P	60 - 150
Clothianidin	91.1	97.1	P/P	60 - 150
Dinotefuran	92.7	97.7	P/P	50 - 150
Diuron	82.8	85.5	P/P	60 - 160
Fenuron	88.3	88.0	P/P	60 - 150
Fluridone	94.1	99.7	P/P	60 - 160
Hydrocodone	97.6	94.5	P/P	60 - 150
Ibuprofen	110	119	P/P	50 - 160
Imazapyr	94.3	96.1	P/P	50 - 150
Imidacloprid	91.4	87.3	P/P	60 - 150
Linuron	77.4	73.6	P/P	60 - 150
Mandestrobin	82.5	80.3	P/P	50 - 150
MCPP	113	104	P/P	50 - 150
Naproxen	93.8	95.6	P/P	50 - 160
Primidone	93.3	97.2	P/P	60 - 150
Pyraclostrobin	77.2	77.6	P/P	60 - 150
Silvex	109	113	P/P	50 - 150
Thiamethoxam	89.5	93.3	P/P	50 - 150
Tolfenpyrad	84.9	85.9	P/P	60 - 150
Triclopyr	116	104	P/P	50 - 150

Reference Method: EPA 200.8 Rev. 5.4
 Run ID: A112826
 Included Lab Sample IDs: 2332929, 2332930, 2332931

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	104	104	P/P	90 - 110
Antimony	99.2	98.8	P/P	90 - 110
Arsenic	101	102	P/P	90 - 110
Cadmium	98.5	98.8	P/P	90 - 110
Chromium	96.4	96.2	P/P	90 - 110
Cobalt	102	104	P/P	90 - 110
Copper	103	103	P/P	90 - 110
Lead	100	100	P/P	90 - 110
Manganese	97.4	97.3	P/P	90 - 110
Molybdenum	100	100	P/P	90 - 110
Nickel	103	105	P/P	90 - 110
Selenium	97.3	98.0	P/P	90 - 110
Silver	99.4	100	P/P	90 - 110
Thallium	98.8	98.7	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A112843

Included Lab Sample IDs: 2332902, 2332903, 2332905, 2332907, 2332909, 2332911

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A112854

Included Lab Sample IDs: 2332929, 2332930, 2332931

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	103	104	P/P	90 - 110
Beryllium	102	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A112862

Included Lab Sample IDs: 2332903, 2332905, 2332909, 2332911

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	108	P/P	90 - 110
Kjeldahl Nitrogen	108	96.4	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A112863

Included Lab Sample IDs: 2332927

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	103		P	80 - 120
PCB-1260	100		P	80 - 120

Reference Method: SM 5310 B-2011

Run ID: A112869

Included Lab Sample IDs: 2332902, 2332903, 2332905, 2332907, 2332909, 2332911

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	90.8	97.9	P/P	90 - 110
Organic Carbon	97.0	90.8	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A112881

Included Lab Sample IDs: 2332927

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	107		P	80 - 120
Alpha-BHC	95.8		P	80 - 120
Alpha-Chlordane	101		P	80 - 120
Beta-BHC	97.2		P	80 - 120
Beta-Cyfluthrin	106		P	80 - 120
Bifenthrin	98.8		P	80 - 120
Carbophenothion	109		P	80 - 120
Chlorothalonil	94.2		P	80 - 120
Cis-Nonachlor	95.3		P	80 - 120
Cypermethrin	99.0		P	80 - 120
Dacthal	108		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A112881
Included Lab Sample IDs: 2332927

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
DDD-p,p'	96.9		P	80 - 120
DDE-p,p'	102		P	80 - 120
DDT-p,p'	100		P	80 - 120
Delta-BHC	102		P	80 - 120
Deltamethrin	118		P	80 - 120
Dichlobenil	105		P	80 - 120
Dicofol	100		P	80 - 120
Dieldrin	97.6		P	80 - 120
Endosulfan I	102		P	80 - 120
Endosulfan II	102		P	80 - 120
Endosulfan Sulfate	105		P	80 - 120
Endrin	104		P	80 - 120
Endrin Aldehyde	93.3		P	80 - 120
Endrin Ketone	97.0		P	80 - 120
Esfenvalerate	105		P	80 - 120
Ethalfuralin	97.7		P	80 - 120
Fenpropathrin	99.7		P	80 - 120
Gamma-BHC	109		P	80 - 120
Gamma-Chlordane	102		P	80 - 120
Heptachlor	95.0		P	80 - 120
Heptachlor Epoxide	93.6		P	80 - 120
Hexachlorobenzene	95.0		P	80 - 120
Kepone	101		P	80 - 120
Lambda-Cyhalothrin	95.3		P	80 - 120
Methoprene	106		P	80 - 120
Methoxychlor	98.2		P	80 - 120
MGK-264	103		P	80 - 120
Mirex	95.7		P	80 - 120
Oxychlordane	99.5		P	80 - 120
Permethrin	96.0		P	80 - 120
Phenothrin	91.8		P	80 - 120
Piperonyl Butoxide	115		P	80 - 120
Prallethrin	108		P	80 - 120
Tau-Fluvalinate	107		P	80 - 120
Tetramethrin	99.5		P	80 - 120
Trans-Nonachlor	99.9		P	80 - 120
Triclosan Methyl	102		P	80 - 120
Trifluralin	97.3		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A112905
Included Lab Sample IDs: 2332902

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.3	98.6	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A112909
Included Lab Sample IDs: 2332923, 2332924, 2332925, 2332926

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A112909

Included Lab Sample IDs: 2332923, 2332924, 2332925, 2332926

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carbophenothion	107		P	80 - 120
Chlorfenapyr	108		P	80 - 120
Coumaphos	116		P	80 - 120
Fluxapyroxad	98.6		P	80 - 120
Malathion	101		P	80 - 120
Naled	104		P	80 - 120
Pyridaben	106		P	80 - 120
Stirophos	108		P	80 - 120
Tebuconazole	98.2		P	80 - 120

Reference Method: EPA 8270E

Run ID: A112918

Included Lab Sample IDs: 2332923, 2332924, 2332925, 2332926

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Avobenzone	103		P	80 - 120
Octinoxate	94.5		P	80 - 120
Oxybenzone	98.7		P	80 - 120

Reference Method: SM 2320 B-2011

Run ID: A112951

Included Lab Sample IDs: 2332900, 2332901, 2332904, 2332906, 2332908, 2332910

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

Reference Method: EPA 8270E

Run ID: A112959

Included Lab Sample IDs: 2332923, 2332924, 2332925, 2332926

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	103		P	80 - 120
Alachlor	96.0		P	80 - 120
Ametryn	91.9		P	80 - 120
Atrazine	99.4		P	80 - 120
Atrazine Desethyl	92.1		P	80 - 120
Azinphos Methyl	97.8		P	80 - 120
Azoxystrobin	95.5		P	80 - 120
Bromacil	98.6		P	80 - 120
Butylate	111		P	80 - 120
Caffeine	98.6		P	80 - 120
Carfentrazone Ethyl	102		P	80 - 120
Chlorpyrifos Ethyl	109		P	80 - 120
Chlorpyrifos Methyl	106		P	80 - 120
Cyanazine	89.9		P	80 - 120
Cyprodinil	89.2		P	80 - 120
Demeton	109		P	80 - 120
Diazinon	93.9		P	80 - 120
Difenoconazole	94.9		P	80 - 120
Dimethenamid	105		P	80 - 120
Dimethomorph	99.0		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A112959

Included Lab Sample IDs: 2332923, 2332924, 2332925, 2332926

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Disulfoton	106		P	80 - 120
Dithiopyr	99.8		P	80 - 120
EPTC	103		P	80 - 120
Ethion	105		P	80 - 120
Ethoprop	97.5		P	80 - 120
Etridiazole	93.7		P	80 - 120
Fenamiphos	115		P	80 - 120
Fenbuconazole	97.3		P	80 - 120
Fipronil	103		P	80 - 120
Fipronil Desulfinyl	100		P	80 - 120
Fipronil Sulfide	119		P	80 - 120
Fipronil Sulfone	119		P	80 - 120
Fluazifop-P-butyl	100		P	80 - 120
Fludioxonil	98.2		P	80 - 120
Flumioxazin	88.5		P	80 - 120
Flutolanil	96.3		P	80 - 120
Fonofos	103		P	80 - 120
Hexazinone	102		P	80 - 120
Imazalil	98.5		P	80 - 120
Iprodione	96.7		P	80 - 120
Loratadine	98.7		P	80 - 120
Metalaxyl	103		P	80 - 120
Metolachlor	103		P	80 - 120
Metribuzin	98.6		P	80 - 120
Mevinphos	93.5		P	80 - 120
Molinate	97.9		P	80 - 120
Myclobutanil	105		P	80 - 120
Napropamide	100		P	80 - 120
Norflurazon	99.5		P	80 - 120
Oxadiazon	105		P	80 - 120
Oxyfluorfen	101		P	80 - 120
Parathion Ethyl	96.9		P	80 - 120
Parathion Methyl	96.1		P	80 - 120
Pendimethalin	98.3		P	80 - 120
Phenytoin	106		P	80 - 120
Phorate	103		P	80 - 120
Prodamine	106		P	80 - 120
Prometon	97.9		P	80 - 120
Prometryn	92.0		P	80 - 120
Pronamide	99.0		P	80 - 120
Propanil	101		P	80 - 120
Propargite	102		P	80 - 120
Propiconazole	98.6		P	80 - 120
Pyraflufen Ethyl	105		P	80 - 120
Pyriproxyfen	100		P	80 - 120
Simazine	99.9		P	80 - 120
Sulfentrazone	102		P	80 - 120
Tebuconazole	98.0		P	80 - 120
Terbufos	102		P	80 - 120
Terbuthylazine	102		P	80 - 120
Thiobencarb	98.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A112959

Included Lab Sample IDs: 2332923, 2332924, 2332925, 2332926

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Triadimefon	101		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A112973

Included Lab Sample IDs: 2332907

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	107	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A113006

Included Lab Sample IDs: 2332902, 2332903, 2332905, 2332907, 2332909, 2332911

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A113018

Included Lab Sample IDs: 2332903, 2332905, 2332907, 2332909, 2332911

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.7	99.0	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A113035

Included Lab Sample IDs: 2332927

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.2		P	80 - 120
Toxaphene	91.1		P	80 - 120

Reference Method: SM 4500-F- C-2011

Run ID: A113065

Included Lab Sample IDs: 2332900, 2332901, 2332904, 2332906, 2332908, 2332910

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

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity	97.1				5.39	
EPA 200.7 Rev. 4.4	Calcium	103					0.595
	Iron	105	108	106			1.40
	Magnesium	101					0.133
	Strontium	105	110	108			1.38
	Tin	101	91.4	97.6			6.56
	Titanium	102	108	111			2.50
	Vanadium	96.4	97.6	99.6			1.98
	Zinc	101	100	101			1.25
EPA 200.8 Rev. 5.4	Aluminum	103	103	105			1.74
	Antimony	102	101	104			3.18
	Arsenic	99.7	111	114			3.33
	Beryllium	97.0	109	115			5.23
	Cadmium	100	96.1	97.1			1.06
	Chromium	98.0	96.3	101			4.36
	Cobalt	99.0	110	114			4.09
	Copper	96.8	105	110			3.87
	Lead	103	105	109			3.24
	Manganese	99.3	95.8	105			4.82
	Molybdenum	102	110	116			4.47
	Nickel	98.4	110	114			3.21
	Selenium	98.0	102	106			4.00
	Silver	99.7	92.6	95.0			2.59
	Thallium	104	107	111			4.11
EPA 350.1 Rev. 2.0	Ammonia-N	100	108	107			1.21
	Ammonia-N	96.0	102	103			1.04
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	97.7	95.6	104			7.90
	Kjeldahl Nitrogen	103	107	101			4.47
	Kjeldahl Nitrogen	105	108	103			3.75
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	102	98.3	102			3.83
EPA 365.1 Rev. 2.0	Total-P	103	101	102			1.45
EPA 8270E	Acetochlor	111	88.5	106			15.3
	Alachlor	100	83.7	96.4			14.1
	Aldrin	74.6	70.7	73.2			3.53
	Alpha-BHC	97.9	97.9	99.4			1.54
	Alpha-Chlordane	99.3	95.3	99.1			3.89
	Ametryn	118	108	108			0.402
	Atrazine	98.4					11.6
	Atrazine Desethyl	69.9	50.1	61.9			16.2
	Avobenzone	107	82.1	69.3			16.8
	Azinphos Methyl	170	143	170			17.1
	Azoxystrobin	96.9	70.1	109			22.0
	Beta-BHC	81.4	76.5	82.4			7.46
	Beta-Cyfluthrin	111	103	98.1			5.09
	Bifenthrin	72.8	75.0	80.3			6.87
	Bromacil	95.7	79.3	96.5			19.6
	Butylate	41.7	42.4	54.1			24.2
	Caffeine	74.0	88.8	83.6			5.89
	Carbophenothion	84.0	81.2	83.3			2.52
	Carbophenothion	95.9	88.4	99.7			12.0
	Carfentrazone Ethyl	129	108	125			14.6
	Chlorfenapyr	81.8	81.0	85.7			5.60
	Chlorothalonil	124	122	115			6.18
	Chlorpyrifos Ethyl	82.6	75.6	82.4			8.59

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Chlorpyrifos Methyl	82.3	80.2	86.5			7.54
	Cis-Nonachlor	84.5	90.5	96.4			6.37
	Coumaphos	114	110	113			2.88
	Cyanazine	159	94.0	113			18.5
	Cypermethrin	97.3	95.6	102			6.56
	Cyprodinil	111	93.4	103			8.78
	Dacthal	105	107	102			5.11
	DDD-p,p'	85.6	92.5	97.2			4.98
	DDE-p,p'	89.1	92.0	91.2			0.880
	DDT-p,p'	93.6	92.6	88.9			3.99
	Delta-BHC	140	143	137			4.42
	Deltamethrin	135	122	109			10.8
	Demeton	64.4	77.4	84.7			9.01
	Diazinon	107	88.5	99.9			12.1
	Dichlobenil	89.3	82.8	97.0			15.8
	Dicofol	88.1	88.5	85.2			3.82
	Dieldrin	87.1	92.4	100			8.01
	Difenoconazole	197	174	196			10.4
	Dimethenamid	93.4	82.1	91.6			11.0
	Dimethomorph	77.1	78.6	82.9			5.35
	Disulfoton	75.9	80.4	84.6			5.16
	Dithiopyr	104	87.6	94.9			8.00
	Endosulfan I	94.3	93.2	99.4			6.45
	Endosulfan II	104	96.4	92.8			3.74
	Endosulfan Sulfate	108	96.4	89.2			7.76
	Endrin	98.1	91.8	90.8			1.05
	Endrin Aldehyde	90.6	88.9	81.2			9.12
	Endrin Ketone	99.3	95.1	98.2			3.16
	EPTC	44.1	36.2	52.3			36.4
	Esfenvalerate	111	104	96.4			8.06
	Ethalfuralin	92.5	89.1	93.4			4.72
	Ethion	73.7	75.8	76.3			0.729
	Ethoprop	71.1	71.9	81.3			12.2
	Etridiazole	67.5	52.2	63.5			19.6
	Fenamiphos	87.9	95.0	99.3			4.45
	Fenbuconazole	146	126	148			16.4
	Fenpropathrin	89.7	81.8	85.6			4.60
	Fipronil	108	91.9	106			14.5
	Fipronil Desulfinyl	105	85.5	99.0			14.6
	Fipronil Sulfide	78.5	78.1	83.6			6.83
	Fipronil Sulfone	86.1	85.6	92.3			7.56
	Fluazifop-P-butyl	103	84.7	98.0			14.5
	Fludioxonil	112	88.9	111			16.1
	Flumioxazin	222	202	228			12.1
	Flutolanil	97.3	82.6	95.3			13.1
	Fluxapyroxad	84.3	62.7	84.0			13.9
	Fonofos	72.2	73.6	75.7			2.79
	Gamma-BHC	118	120	118			1.77
	Gamma-Chlordane	92.5	91.2	95.4			4.44
	Heptachlor	71.3	75.6	83.6			10.0
	Heptachlor Epoxide	89.2	89.6	99.7			10.6
	Hexachlorobenzene	87.6	85.9	90.4			5.18
	Hexazinone	98.0	89.4	98.2			8.84
	Imazalil	94.2	79.1	107			29.9

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Iprodione	107	103	113			9.09
	Kepone	245	227	201			12.1
	Lambda-Cyhalothrin	80.4	81.5	82.3			0.984
	Loratadine	69.4	73.1	75.0			2.57
	Malathion	101	97.3	107			9.87
	Metalaxyl	96.0	79.8	88.0			8.98
	Methoprene	83.1	80.8	82.6			2.18
	Methoxychlor	96.3	90.4	86.2			4.70
	Metolachlor	106					14.5
	Metribuzin	91.5	105	120			13.9
	Mevinphos	58.6	65.6	69.0			5.01
	MGK-264	101	98.0	99.9			1.93
	Mirex	73.1	76.5	78.3			2.35
	Molinate	55.9	51.1	65.8			25.1
	Myclobutanil	110	95.1	110			14.7
	Naled	105	92.5	108			15.4
	Napropamide	86.0	76.9	82.4			6.86
	Norflurazon	117	102	115			11.7
	Octinoxate	102	66.5	51.7			18.1
	Oxadiazon	90.7	78.0	85.4			9.06
	Oxybenzone	99.0	70.2	59.6			16.4
	Oxychlordane	95.6	90.2	87.2			3.41
	Oxyfluorfen	129	114	122			6.89
	Parathion Ethyl	89.9	81.7	93.3			13.2
	Parathion Methyl	106	103	113			9.78
	PCB-1016	67.3	101	92.4			8.43
	PCB-1260	96.7	97.3	94.4			2.97
	Pendimethalin	81.7	90.4	101			10.9
	Permethrin	95.4	99.3	95.6			3.71
	Phenothrin	65.8	68.1	78.2			13.8
	Phenytoin	112	95.3	107			11.7
	Phorate	50.8	72.7	83.1			13.3
	Piperonyl Butoxide	136	128	145			12.6
	Prallethrin	103	94.7	89.9			5.28
	Prodiamine	98.4	91.9	106			13.9
	Prometon	107	71.8	82.6			13.9
	Prometryn	102	93.3	96.5			3.32
	Pronamide	112	99.3	111			11.2
	Propanil	88.5	76.2	85.6			11.6
	Propargite	145	117	142			19.1
	Propiconazole	110	86.7	107			15.9
	Pyraflufen Ethyl	117	98.5	113			13.8
	Pyridaben	99.3	93.4	97.9			4.71
	Pyriproxyfen	142	120	145			18.5
	Simazine	98.6	93.6	106			12.0
	Stirophos	16.8	81.4	30.2			91.7
	Sulfentrazone	139	94.4	109			14.7
	Tau-Fluvalinate	99.9	91.0	86.7			4.82
	Tebuconazole	58.1	56.9	63.2			9.03
	Terbufos	80.0	80.9	92.1			12.9
	Terbutylazine	89.8	82.4	91.9			10.9
	Tetramethrin	117	117	113			4.13
	Thiobencarb	96.6	79.7	92.3			14.6
	Trans-Nonachlor	86.3	89.1	87.7			1.59

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Triadimefon	87.4	70.7	69.6			1.48
	Triclosan Methyl	93.7	94.8	100			5.82
	Trifluralin	90.5	88.7	88.6			0.102
EPA 8276	Chlordane	105	105	105			0.573
	Toxaphene	106	127	126			1.10
EPA 8321B	2,4-D	89.2	113	101			10.6
	2,4,5-T	79.4	103	84.0			20.0
	Acesulfame K	102	82.6	84.8			2.59
	Acetaminophen	92.8	125	105			15.6
	Acetamiprid	74.0	98.4	84.8			14.9
	Afidopyropen	66.4	89.5	78.1			13.7
	AMPA	97.9	37.9	37.6			0.419
	Bentazon	114	123	102			15.0
	Benzovindiflupyr	59.5	66.6	59.0			12.1
	Carbamazepine	79.6	95.9	82.7			14.1
	Clothianidin	93.6	110	93.9			15.7
	Dinotefuran	91.0	123	103			17.9
	Diuron	79.5	93.9	79.9			14.6
	Endothall	72.4	89.4	86.8			2.91
	Fenuron	88.9	97.3	83.3			15.5
	Fluridone	88.0	102	89.1			13.8
	Glufosinate	104	50.9	53.8			5.63
	Glyphosate	92.8	48.7	52.1			3.45
	Hydrocodone	86.9	108	90.7			17.7
	Ibuprofen	97.7	92.5	95.2			2.93
	Imazapyr	108	135	114			11.8
	Imidacloprid	85.0	113	88.2			20.3
	Linuron	67.0	77.4	70.0			10.1
	Mandestrobin	63.8	70.0	62.8			10.7
	MCPP	107	139	116			17.5
	Naproxen	98.2	100	75.2			28.4
	Primidone	91.4	111	101			9.94
	Pyraclostrobin	52.0	63.7	56.5			12.0
	Silvex	67.5	97.3	76.0			24.6
	Sucralose	96.9					14.5
	Thiamethoxam	88.7	105	90.9			14.9
	Tolfenpyrad	37.1	42.1	37.4			11.8
	Triclopyr	76.8	103	78.3			26.9
SM 2320 B-2011	Total Alkalinity	104				0.939	
SM 4500-F- C-2011	Fluoride	101	101	100			0.480
SM 5310 B-2011	Organic Carbon	94.5	88.6	89.7			0.949

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2332900, 2332901, 2332904, 2332906, 2332908, 2332910
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2332929, 2332930, 2332931
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2332929, 2332930, 2332931
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2332902, 2332903, 2332905, 2332907, 2332909, 2332911

Reference Method Descriptions

Method	Description	Associated Samples
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2332902, 2332903, 2332905, 2332907, 2332909, 2332911
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2332902, 2332903, 2332905, 2332907, 2332909, 2332911
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2332902, 2332903, 2332905, 2332907, 2332909, 2332911
EPA 8270E	Analysis of Sunscreen Compounds in Water by GC/MS-SIM	2332923, 2332924, 2332925, 2332926
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2332927
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2332923, 2332924, 2332925, 2332926
EPA 8270E	PCBs in water matrices by GC/MS/MS	2332927
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2332927
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2332928
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2332900, 2332901, 2332904, 2332906, 2332908, 2332910
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2332900, 2332901, 2332904, 2332906, 2332908, 2332910
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2332900, 2332901, 2332904, 2332906, 2332908, 2332910
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2332902, 2332903, 2332905, 2332907, 2332909, 2332911

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	06/08/2022			06/08/2022 14:26	Khloe J Berg	2332900
	06/08/2022			06/08/2022 14:27	Khloe J Berg	2332901
	06/08/2022			06/08/2022 14:30	Khloe J Berg	2332904
	06/08/2022			06/08/2022 14:31	Khloe J Berg	2332906
	06/08/2022			06/08/2022 14:32	Khloe J Berg	2332908
	06/08/2022			06/08/2022 14:33	Khloe J Berg	2332910
EPA 200.7 Rev. 4.4	06/08/2022	06/10/2022 09:22	Megan Whitefoot	06/11/2022 23:06	Betina Topolski	2332929
	06/08/2022	06/10/2022 09:22	Megan Whitefoot	06/11/2022 23:19	Betina Topolski	2332929
	06/08/2022	06/10/2022 09:22	Megan Whitefoot	06/11/2022 23:58	Betina Topolski	2332930
	06/08/2022	06/10/2022 09:22	Megan Whitefoot	06/12/2022 00:11	Betina Topolski	2332930
	06/08/2022	06/10/2022 09:22	Megan Whitefoot	06/12/2022 00:23	Betina Topolski	2332931
	06/08/2022	06/10/2022 09:22	Megan Whitefoot	06/12/2022 00:35	Betina Topolski	2332931
EPA 200.8 Rev. 5.4	06/08/2022	06/10/2022 09:22	Megan Whitefoot	06/14/2022 17:14	Alexander Thompson	2332930
	06/08/2022	06/10/2022 09:22	Megan Whitefoot	06/14/2022 17:23	Alexander Thompson	2332931
	06/08/2022	06/10/2022 09:22	Megan Whitefoot	06/14/2022 19:37	Alexander Thompson	2332929
	06/08/2022	06/10/2022 09:22	Megan Whitefoot	06/14/2022 19:46	Alexander Thompson	2332930
	06/08/2022	06/10/2022 09:22	Megan Whitefoot	06/14/2022 19:56	Alexander Thompson	2332931
	06/08/2022	06/10/2022 09:22	Megan Whitefoot	06/15/2022 11:19	Alexander Thompson	2332929
	06/08/2022	06/10/2022 09:22	Megan Whitefoot	06/15/2022 11:25	Alexander Thompson	2332930
	06/08/2022	06/10/2022 09:22	Megan Whitefoot	06/15/2022 11:31	Alexander Thompson	2332931
EPA 350.1 Rev. 2.0	06/08/2022			06/17/2022 15:03	Ping Hua	2332902
	06/08/2022			06/23/2022 10:23	Judith K. Clark	2332903
	06/08/2022			06/23/2022 10:24	Judith K. Clark	2332905
	06/08/2022			06/23/2022 10:25	Judith K. Clark	2332907
	06/08/2022			06/23/2022 10:27	Judith K. Clark	2332909
	06/08/2022			06/23/2022 10:28	Judith K. Clark	2332911
EPA 351.2 Rev. 2.0	06/08/2022	06/09/2022 16:19	Samantha L Bates	06/10/2022 16:41	Alexandra J Mattheus	2332902
	06/08/2022	06/14/2022 16:18	Samantha L Bates	06/15/2022 17:10	Alexandra J Mattheus	2332903
	06/08/2022	06/14/2022 16:18	Samantha L Bates	06/15/2022 17:18	Alexandra J Mattheus	2332905
	06/08/2022	06/14/2022 16:18	Samantha L Bates	06/15/2022 17:20	Alexandra J Mattheus	2332909
	06/08/2022	06/14/2022 16:18	Samantha L Bates	06/15/2022 17:21	Alexandra J Mattheus	2332911
	06/08/2022	06/20/2022 16:20	Samantha L Bates	06/21/2022 12:55	Alexandra J Mattheus	2332907
EPA 353.2 Rev. 2.0	06/08/2022			06/21/2022 17:53	Touraj Touran	2332907
	06/08/2022			06/21/2022 18:01	Touraj Touran	2332902
	06/08/2022			06/21/2022 18:03	Touraj Touran	2332903
	06/08/2022			06/21/2022 18:04	Touraj Touran	2332905
	06/08/2022			06/21/2022 18:05	Touraj Touran	2332909
	06/08/2022			06/21/2022 18:06	Touraj Touran	2332911
EPA 365.1 Rev. 2.0	06/08/2022	06/10/2022 14:40	Simonne.V. Calhoun	06/13/2022 12:16	James L Waggeberby	2332905
	06/08/2022	06/10/2022 14:40	Simonne.V. Calhoun	06/13/2022 12:24	James L Waggeberby	2332902

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	06/08/2022	06/10/2022 14:40	Simonne.V. Calhoun	06/13/2022 12:25	James L Waggeberby	2332903
	06/08/2022	06/10/2022 14:40	Simonne.V. Calhoun	06/13/2022 12:26	James L Waggeberby	2332907
	06/08/2022	06/10/2022 14:40	Simonne.V. Calhoun	06/13/2022 12:27	James L Waggeberby	2332909
	06/08/2022	06/10/2022 14:40	Simonne.V. Calhoun	06/13/2022 12:28	James L Waggeberby	2332911
EPA 8270E	06/08/2022	06/10/2022 08:00	Rasheda Ghaffari	06/15/2022 19:58	Michael Poppell	2332927
	06/08/2022	06/10/2022 08:00	Rasheda Ghaffari	06/16/2022 01:14	Arthur Maknenko	2332927
	06/08/2022	06/13/2022 08:00	Rasheda Ghaffari	06/16/2022 20:42	Michael Poppell	2332923
	06/08/2022	06/13/2022 08:00	Rasheda Ghaffari	06/16/2022 21:09	Michael Poppell	2332924
	06/08/2022	06/13/2022 08:00	Rasheda Ghaffari	06/16/2022 21:36	Michael Poppell	2332925
	06/08/2022	06/13/2022 08:00	Rasheda Ghaffari	06/16/2022 22:03	Michael Poppell	2332926
	06/08/2022	06/13/2022 08:00	Rasheda Ghaffari	06/16/2022 23:56	Arthur Maknenko	2332923
	06/08/2022	06/13/2022 08:00	Rasheda Ghaffari	06/17/2022 00:16	Arthur Maknenko	2332924
	06/08/2022	06/13/2022 08:00	Rasheda Ghaffari	06/17/2022 00:35	Arthur Maknenko	2332925
	06/08/2022	06/13/2022 08:00	Rasheda Ghaffari	06/17/2022 00:55	Arthur Maknenko	2332926
	06/08/2022	06/13/2022 08:00	Rasheda Ghaffari	06/18/2022 19:32	Michael Poppell	2332923
	06/08/2022	06/13/2022 08:00	Rasheda Ghaffari	06/18/2022 19:59	Michael Poppell	2332924
	06/08/2022	06/13/2022 08:00	Rasheda Ghaffari	06/18/2022 20:25	Michael Poppell	2332925
	06/08/2022	06/13/2022 08:00	Rasheda Ghaffari	06/18/2022 20:51	Michael Poppell	2332926
EPA 8276	06/08/2022	06/10/2022 08:00	Rasheda Ghaffari	06/24/2022 02:35	Julie Wi	2332927
EPA 8321B	06/08/2022	06/08/2022 14:00	Umesh Chiluwal	06/08/2022 17:12	Umesh Chiluwal	2332928
	06/08/2022	06/08/2022 14:00	Umesh Chiluwal	06/09/2022 05:46	Umesh Chiluwal	2332928
	06/08/2022	06/09/2022 08:30	June Rhew	06/11/2022 00:43	Juyoung Kim	2332928
SM 2320 B-2011	06/08/2022			06/19/2022 01:05	Dale L. Simmons	2332900
	06/08/2022			06/19/2022 01:16	Dale L. Simmons	2332901
	06/08/2022			06/19/2022 01:28	Dale L. Simmons	2332904
	06/08/2022			06/19/2022 01:39	Dale L. Simmons	2332906
	06/08/2022			06/19/2022 01:50	Dale L. Simmons	2332908
SM 2540 D-2011	06/08/2022			06/19/2022 02:01	Dale L. Simmons	2332910
	06/08/2022			06/10/2022 14:26	Yijie Li	2332900, 2332901, 2332904, 2332906, 2332908, 2332910
SM 4500-F- C-2011	06/08/2022			06/24/2022 13:32	Dale L. Simmons	2332906
	06/08/2022			06/24/2022 14:08	Dale L. Simmons	2332900
	06/08/2022			06/24/2022 14:13	Dale L. Simmons	2332901
	06/08/2022			06/24/2022 14:18	Dale L. Simmons	2332904
	06/08/2022			06/24/2022 14:23	Dale L. Simmons	2332908
SM 5310 B-2011	06/08/2022			06/24/2022 14:29	Dale L. Simmons	2332910
	06/08/2022			06/16/2022 00:21	Khloe J Berg	2332907
	06/08/2022			06/16/2022 02:30	Khloe J Berg	2332902
	06/08/2022			06/16/2022 03:17	Khloe J Berg	2332903
	06/08/2022			06/16/2022 03:39	Khloe J Berg	2332905

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 5310 B-2011	06/08/2022			06/16/2022 03:54	Khloe J Berg	2332909
	06/08/2022			06/16/2022 04:28	Khloe J Berg	2332911