

Chemical Analysis Report

SE-DIST-2021-10-05-01

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

Event Description: **SMP - Stuart Boat October**

Request ID: **RQ-2021-09-27-13**

Customer: **SE-DIST**

Project ID: **SMP**

Send Reports to:

FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
Attn: Drew Liddick

For additional information please contact

Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Colin Wright, Program Administrator

Date Certified: 29-OCT-2021 08:04

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light blue rectangular 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: South Fork SLR @ Leighton Park

Collection Date/Time: 10/04/2021 12:25

Field ID: G2SE0013

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2280442	EPA 200.7 Rev. 4.4	Calcium	72.2		mg/L	P404700	
		Iron	340		ug/L	P404700	
		Magnesium	51.6		mg/L	P404700	
		Manganese	15.4		ug/L	P404700	
	EPA 200.8 Rev. 5.4	Zinc	6.3	I	ug/L	P404700	
		Aluminum	211		ug/L	P404700	
		Antimony	0.11	I	ug/L	P404700	
		Arsenic	2.32		ug/L	P404700	
		Beryllium	0.022	I	ug/L	P404700	
		Cadmium	0.020	U	ug/L	P404700	
		Chromium	0.73	I	ug/L	P404700	
		Copper	2.09		ug/L	P404700	
		Lead	0.38	I	ug/L	P404700	
		Nickel	0.67	I	ug/L	P404700	
		Selenium	0.22	I	ug/L	P404700	
		Silver	0.010	U	ug/L	P404700	
		Thallium	0.10	U	ug/L	P404700	

Sample Location: South Fork Saint Lucie Near Veterans Memorial Bridge **Collection Date/Time: 10/04/2021 12:45**

Field ID: G2SE0060

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2280443	EPA 200.7 Rev. 4.4	Calcium	66.3		mg/L	P404700	
		Iron	350		ug/L	P404700	
		Magnesium	35.1		mg/L	P404700	
		Manganese	15.6		ug/L	P404700	
		Zinc	6.5	I	ug/L	P404700	
	EPA 200.8 Rev. 5.4	Aluminum	213		ug/L	P404700	
		Antimony	0.097	I	ug/L	P404700	
		Arsenic	2.28		ug/L	P404700	
		Beryllium	0.019	I	ug/L	P404700	
		Cadmium	0.020	U	ug/L	P404700	
		Chromium	0.72	I	ug/L	P404700	
		Copper	2.03		ug/L	P404700	
		Lead	0.39	I	ug/L	P404700	
		Nickel	0.60	I	ug/L	P404700	
		Selenium	0.26	I	ug/L	P404700	
		Silver	0.010	U	ug/L	P404700	
		Thallium	0.10	U	ug/L	P404700	

Sample Location: North Fork Saint Lucie Near Floridian GC

Collection Date/Time: 10/04/2021 13:10

Field ID: G2SE0062

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2280444	EPA 200.7 Rev. 4.4	Calcium	79.9		mg/L	P404700	
		Iron	280		ug/L	P404700	
		Magnesium	90.6		mg/L	P404700	
		Manganese	10.5		ug/L	P404700	
	EPA 200.8 Rev. 5.4	Zinc	6.2	I	ug/L	P404700	
		Aluminum	56		ug/L	P404700	
		Antimony	0.12	I	ug/L	P404700	
		Arsenic	1.91		ug/L	P404700	
		Beryllium	0.010	U	ug/L	P404700	
		Cadmium	0.020	U	ug/L	P404700	
		Chromium	0.48	I	ug/L	P404700	
		Copper	2.18		ug/L	P404700	
		Lead	0.20	U	ug/L	P404700	
		Nickel	0.51	I	ug/L	P404700	
		Selenium	0.20	U	ug/L	P404700	
		Silver	0.010	U	ug/L	P404700	
		Thallium	0.10	U	ug/L	P404700	

Sample Location: Upper North Saint Lucie Estuary

Collection Date/Time: 10/04/2021 13:20

Field ID: G2SE0061

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2280429	EPA 180.1 Rev. 2.0	Turbidity	2.5	A	NTU	P404634	
	SM 2320 B-2011	Total Alkalinity	128		mg CaCO3/L	P404823	
	SM 2540 D-2011	TSS	2	I	mg/L	P404995	
	SM 4500 F-C-2011	Fluoride	0.27		mg F/L	P404829	
2280430	EPA 350.1 Rev. 2.0	Ammonia-N	0.068		mg N/L	P404905	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.99		mg N/L	P404874	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.18		mg N/L	P404781	
	EPA 365.1 Rev. 2.0	Total-P	0.21		mg P/L	P404739	
	SM 5310 B-2011	Organic Carbon	16		mg C/L	P404846	
2280431	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.17		mg P/L	P404596	
2280437	EPA 8321B	Aldicarb	0.020	U	ug/L	P404711	
		Aldicarb Sulfone	0.0020	U	ug/L	P404711	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P404711	
		Carbaryl	0.0020	U	ug/L	P404711	
		Carbofuran	0.0020	U	ug/L	P404711	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P404711	
		Methiocarb	0.0020	U	ug/L	P404711	
		Methomyl	0.0020	U	ug/L	P404711	
		Oxamyl	0.0020	U	ug/L	P404711	
		Propoxur	0.0020	U	ug/L	P404711	
2280438		Acesulfame K	0.13	I	ug/L	P404607	
		2,4-D	0.14		ug/L	P404499	
		AMPA	1.0	U	ug/L	P404607	
		2,4,5-T	0.0040	U	ug/L	P404499	
		Acetaminophen	0.082		ug/L	P404499	RPD
		Endothall	0.25	U	ug/L	P404607	
		Acetamiprid	0.0020	U	ug/L	P404499	
		Glufosinate	1.0	U	ug/L	P404607	
		Glyphosate	1.0	U	ug/L	P404607	
		Afidopyropen	0.0020	U	ug/L	P404499	
		Sucralose	0.34		ug/L	P404607	
		Bentazon	0.022		ug/L	P404499	
		Benzovindiflupyr	0.0020	U	ug/L	P404499	
		Carbamazepine	0.0016	I	ug/L	P404499	
		Clothianidin	0.0096		ug/L	P404499	
		Dinotefuran	0.0039	I	ug/L	P404499	
		Diuron	0.040		ug/L	P404499	
		Fenuron	0.016	U	ug/L	P404499	
		Fluridone	0.0077		ug/L	P404499	
		Imazapyr	0.42		ug/L	P404499	
		Hydrocodone	0.0020	U	ug/L	P404499	
		Ibuprofen	0.020	U	ug/L	P404499	
		Imidacloprid	0.087		ug/L	P404499	

Field ID: G2SE0061

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2280438	EPA 8321B	Linuron	0.0040	U	ug/L	P404499	
		Mandestrobin	0.0020	U	ug/L	P404499	
		MCP	0.0055	I	ug/L	P404499	
		Naproxen	0.0080	U	ug/L	P404499	
		Primidone	0.0040	U	ug/L	P404499	
		Pyraclostrobin	0.0020	U	ug/L	P404499	
		Thiamethoxam	0.028		ug/L	P404499	
		Tolfenpyrad	0.0030	I	ug/L	P404499	
		Triclopyr	0.0040	U	ug/L	P404499	
2280439	EPA 8270E	Aldrin	0.70	U	ng/L	P404647	
		Alpha-BHC	0.11	U	ng/L	P404647	
		Alpha-Chlordane	0.21	U	ng/L	P404647	
		Beta-BHC	0.11	U	ng/L	P404647	
		Beta-Cyfluthrin**	1.3	U	ng/L	P404647	
		Bifenthrin**	0.54	U	ng/L	P404647	RPD
		Chlorothalonil	0.54	U	ng/L	P404647	
		Cis-Nonachlor**	0.21	U	ng/L	P404647	
		Cypermethrin	1.6	U	ng/L	P404647	
		Dacthal**	0.16	U	ng/L	P404647	
		DDD-p,p'	0.27	U	ng/L	P404647	
		DDE-p,p'	0.21	U	ng/L	P404647	
		DDT-p,p'	0.27	U	ng/L	P404647	
		Delta-BHC	0.43	U	ng/L	P404647	
		Deltamethrin**	1.3	U	ng/L	P404647	
		Dichlobenil**	0.11	U	ng/L	P404647	
		Dicofol	1.3	U	ng/L	P404647	
		Dieldrin	0.43	U	ng/L	P404647	
		Endosulfan I	0.43	U	ng/L	P404647	
		Endosulfan II	0.43	U	ng/L	P404647	
		Endosulfan Sulfate	0.32	U	ng/L	P404647	
		Endrin	0.43	U	ng/L	P404647	
		Endrin Aldehyde	0.80	UJ	ng/L	P404647	RPD
		Endrin Ketone	0.43	U	ng/L	P404647	
		Esfenvalerate**	0.80	U	ng/L	P404647	
		Ethalfuralin**	0.16	U	ng/L	P404647	
		Fenpropathrin**	0.27	U	ng/L	P404647	
		Gamma-BHC	0.13	U	ng/L	P404647	
		Gamma-Chlordane	0.21	U	ng/L	P404647	
		Heptachlor	0.21	U	ng/L	P404647	
		Heptachlor Epoxide	0.27	U	ng/L	P404647	
		Hexachlorobenzene	1.1	U	ng/L	P404647	
		Kepone**	5.4	UJ	ng/L	P404647	CCV, RPD
		Lambda-Cyhalothrin**	0.80	U	ng/L	P404647	
		Methoprene**	0.80	U	ng/L	P404647	
		Methoxychlor	0.32	U	ng/L	P404647	

Field ID: G2SE0061

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2280439	EPA 8270E	MGK-264**	0.21	UJ	ng/L	P404647	RPD
		Mirex	0.75	U	ng/L	P404647	
		Oxychlordane**	0.32	U	ng/L	P404647	
		Permethrin	1.7	U	ng/L	P404647	
		Phenothrin**	0.97	U	ng/L	P404647	
		Piperonyl Butoxide**	1.6		ng/L	P404647	
		Prallethrin**	2.1	U	ng/L	P404647	
		Tau-Fluvalinate**	0.27	U	ng/L	P404647	
		Tetramethrin**	0.80	U	ng/L	P404647	
		Trans-Nonachlor**	0.21	U	ng/L	P404647	
		Triclosan Methyl**	0.16	U	ng/L	P404647	
		Trifluralin	0.21	U	ng/L	P404647	
		Chlordane	2.7	U	ng/L	P404647	
		Toxaphene	16	U	ng/L	P404647	
2280440	EPA 8270E	Acetochlor	0.27	U	ng/L	P404820	RPD
		Alachlor	0.27	U	ng/L	P404820	
		Ametryn	2.7		ng/L	P404820	
		Atrazine	55		ng/L	P404820	
		Atrazine Desethyl	5.0	I	ng/L	P404820	
		Azinphos Methyl	2.2	U	ng/L	P404820	
		Azoxystrobin**	2.2	I	ng/L	P404820	
		Bromacil	1.3	I	ng/L	P404820	
		Butylate	0.43	U	ng/L	P404820	
		Caffeine**	55		ng/L	P404820	
		Carbophenothion	0.54	U	ng/L	P404820	
		Carfentrazone Ethyl**	0.11	U	ng/L	P404820	
		Chlorpyrifos Ethyl	0.27	U	ng/L	P404820	
		Chlorpyrifos Methyl	0.054	U	ng/L	P404820	
		Cyanazine	3.5	U	ng/L	P404820	
		Demeton	1.6	U	ng/L	P404820	
		Diazinon	0.47	I	ng/L	P404820	
		Difenoconazole**	0.65	U	ng/L	P404820	
		Dimethenamid**	0.11	U	ng/L	P404820	
		Disulfoton	0.54	U	ng/L	P404820	
		Dithiopyr**	0.19	U	ng/L	P404820	
		EPTC	1.4	UJ	ng/L	P404820	
		Ethion	0.16	U	ng/L	P404820	
		Ethoprop	0.11	U	ng/L	P404820	
		Fenamiphos	0.54	U	ng/L	P404820	
		Fenbuconazole**	0.76		ng/L	P404820	
		Fipronil	0.55	I	ng/L	P404820	
		Fipronil Desulfinyl**	0.70		ng/L	P404820	
		Fipronil Sulfide	0.43	I	ng/L	P404820	
		Fipronil Sulfone	1.0		ng/L	P404820	
		Fluazifop-P-butyl**	0.11	U	ng/L	P404820	

Field ID: G2SE0061

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2280440	EPA 8270E	Fludioxonil**	0.14	U	ng/L	P404820	
		Flumioxazin**	1.9	U	ng/L	P404820	
		Flutolanil**	0.12	I	ng/L	P404820	
		Fluxapyroxad**	1.8		ng/L	P404820	
		Fonofos	0.22	U	ng/L	P404820	
		Hexazinone	110		ng/L	P404820	
		Imazalil**	0.81	U	ng/L	P404820	
		Iprodione**	0.65	U	ng/L	P404820	
		Malathion	0.38	U	ng/L	P404820	
		Metalaxyl	5.7		ng/L	P404820	
		Metolachlor	3.1		ng/L	P404820	
		Metribuzin	3.5	U	ng/L	P404820	
		Mevinphos	1.1	U	ng/L	P404820	
		Molinate	0.33	U	ng/L	P404820	
		Myclobutanil**	0.27	U	ng/L	P404820	
		Naled**	1.6	UJ	ng/L	P404820	LCS
		Norflurazon	53		ng/L	P404820	
		Oxadiazon	13		ng/L	P404820	
		Oxyfluorfen**	0.16	U	ng/L	P404820	
		Parathion Ethyl	0.27	U	ng/L	P404820	
		Parathion Methyl	0.60	U	ng/L	P404820	
		Pendimethalin	1.1	U	ng/L	P404820	
		Phorate	0.57	U	ng/L	P404820	
		Prodiamine**	0.33	U	ng/L	P404820	
		Prometon	3.4	I	ng/L	P404820	
		Prometryn	0.22	U	ng/L	P404820	
		Pronamide**	0.16	U	ng/L	P404820	
		Propiconazole**	5.8		ng/L	P404820	
		Pyriproxyfen**	0.14	U	ng/L	P404820	
		Simazine	9.0		ng/L	P404820	
		Sulfentrazone**	19		ng/L	P404820	
		Tebuconazole**	0.77	I	ng/L	P404820	
		Terbufos	0.11	U	ng/L	P404820	
		Terbuthylazine	0.46	U	ng/L	P404820	
2280441	EPA 200.7 Rev. 4.4	Calcium	78.6		mg/L	P404700	
		Iron	320		ug/L	P404700	
		Magnesium	75.8		mg/L	P404700	
		Manganese	12.0		ug/L	P404700	
		Zinc	5.9	I	ug/L	P404700	
	EPA 200.8 Rev. 5.4	Aluminum	49		ug/L	P404700	
		Antimony	0.11	I	ug/L	P404700	
		Arsenic	1.80		ug/L	P404700	
		Beryllium	0.010	U	ug/L	P404700	
		Cadmium	0.020	U	ug/L	P404700	
		Chromium	0.48	I	ug/L	P404700	

Field ID: G2SE0061

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2280441	EPA 200.8 Rev. 5.4	Copper	1.95		ug/L	P404700	
		Lead	0.20	U	ug/L	P404700	
		Nickel	0.50	U	ug/L	P404700	
		Selenium	0.23	I	ug/L	P404700	
		Silver	0.010	U	ug/L	P404700	
		Thallium	0.10	U	ug/L	P404700	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 4500 F-C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 8321B: MDL for some parameters elevated due to matrix interference.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for multiple parameters 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.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P404634

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P404700

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Manganese	1.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P404700

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
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P404905

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P404874

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P404781

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P404739

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

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Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P404596

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

Reference Method: EPA 8270E
Batch ID: P404647

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
Chlorothalonil	0.50	U	ng/L
Chlorothalonil	0.50	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
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	0.10	U	ng/L
Dichlobenil	0.10	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

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P404647

Component	Result	Code	Units
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
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

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Method Blank Results

Reference Method: EPA 8270E
Batch ID: P404820

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
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
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	0.50	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	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
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	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
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
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L

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Method Blank Results

Reference Method: EPA 8270E
Batch ID: P404820

Component	Result	Code	Units
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
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
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	3.2	U	ng/L
Metribuzin	3.2	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
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxyfluorfen	0.15	U	ng/L
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P404820

Component	Result	Code	Units
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.30	U	ng/L
Prodiamine	0.30	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
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	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
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
Terbuthylazine	0.42	U	ng/L
Terbuthylazine	0.42	U	ng/L

Reference Method: EPA 8276

Batch ID: P404647

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: P404499

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	0.016	U	ug/L

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Method Blank Results

Reference Method: EPA 8321B

Batch ID: P404499

Component	Result	Code	Units
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B

Batch ID: P404607

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

Reference Method: EPA 8321B

Batch ID: P404711

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

Reference Method: SM 2320 B-2011

Batch ID: P404823

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

Reference Method: SM 2540 D-2011

Batch ID: P404995

Component	Result	Code	Units
TSS	2	U	mg/L

Quality Assurance Report

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Reference Method: SM 4500 F-C-2011
Batch ID: P404829

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P404846

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P404700

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	103		P	85 - 115
Iron	109		P	85 - 115
Magnesium	109		P	85 - 115
Manganese	102		P	85 - 115
Zinc	102		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P404700

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	104		P	85 - 115
Antimony	109		P	85 - 115
Arsenic	101		P	85 - 115
Beryllium	103		P	85 - 115
Cadmium	104		P	85 - 115
Chromium	99.8		P	85 - 115
Copper	96.1		P	85 - 115
Lead	98.5		P	85 - 115
Nickel	97.1		P	85 - 115
Selenium	102		P	85 - 115
Silver	97.7		P	85 - 115
Thallium	105		P	85 - 115

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P404905

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

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P404874

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	98.7		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P404781

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P404739

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P404596

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P404647

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	54.8	57.9	P/P	20 - 83.0
Alpha-BHC	84.1	86.2	P/P	74 - 108
Alpha-Chlordane	79.2	90.6	P/P	53 - 109
Beta-BHC	84.3	95.1	P/P	64 - 139
Beta-Cyfluthrin	104	111	P/P	27 - 171
Bifenthrin	75.1	77.8	P/P	20 - 124
Chlorothalonil	83.3	87.4	P/P	20 - 182
Cis-Nonachlor	79.3	89.4	P/P	46 - 110
Cypermethrin	94.9	102	P/P	35 - 160
Dacthal	86.9	94.2	P/P	70 - 115
DDD-p,p'	77.6	85.4	P/P	51 - 108
DDE-p,p'	77.0	85.2	P/P	51 - 104
DDT-p,p'	76.3	84.0	P/P	52 - 107
Delta-BHC	86.2	99.9	P/P	73 - 146
Deltamethrin	93.0	109	P/P	20 - 190
Dichlobenil	68.1	72.3	P/P	30 - 100
Dicofol	77.4	82.5	P/P	52 - 110
Dieldrin	78.3	87.0	P/P	57 - 111
Endosulfan I	78.1	85.9	P/P	61 - 106
Endosulfan II	71.8	82.4	P/P	57 - 122
Endosulfan Sulfate	68.8	86.6	P/P	58 - 122
Endrin	70.5	78.5	P/P	34 - 125
Endrin Aldehyde	55.5	78.9	P/P	40 - 120
Endrin Ketone	72.1	88.4	P/P	51 - 138
Esfenvalerate	99.3	107	P/P	20 - 193
Ethalfuralin	74.5	75.8	P/P	51 - 99.0
Fenpropathrin	82.8	89.8	P/P	40 - 116
Gamma-BHC	85.2	86.7	P/P	74 - 116
Gamma-Chlordane	77.3	86.7	P/P	49 - 105
Heptachlor	71.4	71.4	P/P	45 - 98.0
Heptachlor Epoxide	78.6	84.4	P/P	61 - 106
Hexachlorobenzene	74.8	79.3	P/P	41 - 96.0
Kepone	43.3	126	P/P	27 - 179
Lambda-Cyhalothrin	100	96.0	P/P	20 - 199
Methoprene	79.5	88.8	P/P	50 - 150
Methoxychlor	82.5	87.7	P/P	61 - 111
MGK-264	61.5	88.4	P/P	20 - 124
Mirex	66.0	68.1	P/P	20 - 199
Oxychlordane	76.9	81.4	P/P	50 - 150
Permethrin	95.6	104	P/P	31 - 155
Phenothrin	68.8	80.2	P/P	20 - 100
Piperonyl Butoxide	83.3	97.4	P/P	20 - 144
Prallethrin	66.5	86.6	P/P	20 - 103
Tau-Fluvalinate	85.0	98.1	P/P	24 - 133
Tetramethrin	77.3	94.8	P/P	20 - 116
Trans-Nonachlor	79.6	91.2	P/P	49 - 105
Triclosan Methyl	85.0	98.3	P/P	60 - 111
Trifluralin	75.2	78.4	P/P	53 - 97.0

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
 Batch ID: P404820

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	106	112	P/P	70 - 121
Alachlor	90.4	101	P/P	70 - 119
Ametryn	80.0	97.4	P/P	61 - 135
Atrazine	96.5	100	P/P	76 - 123
Atrazine Desethyl	68.0	70.0	P/P	35 - 140
Azinphos Methyl	152	154	P/P	57 - 163
Azoxystrobin	95.3	98.5	P/P	43 - 231
Bromacil	85.5	98.0	P/P	42 - 123
Butylate	47.8	61.8	P/P	34 - 92.0
Caffeine	82.8	85.9	P/P	70 - 130
Carbophenothion	103	120	P/P	61 - 121
Carfentrazone Ethyl	94.9	103	P/P	62 - 139
Chlorpyrifos Ethyl	93.2	87.7	P/P	67 - 121
Chlorpyrifos Methyl	98.9	95.8	P/P	67 - 120
Cyanazine	99.2	114	P/P	20 - 226
Demeton	75.0	78.6	P/P	35 - 125
Diazinon	101	112	P/P	70 - 122
Difenoconazole	132	135	P/P	56 - 186
Dimethenamid	81.7	99.8	P/P	67 - 119
Disulfoton	82.4	92.8	P/P	47 - 120
Dithiopyr	89.7	93.2	P/P	67 - 118
EPTC	45.9	64.3	P/P	33 - 90.0
Ethion	77.0	97.4	P/P	40 - 133
Ethoprop	81.7	85.8	P/P	61 - 121
Fenamiphos	99.6	103	P/P	31 - 139
Fenbuconazole	92.2	105	P/P	66 - 141
Fipronil	116	120	P/P	62 - 129
Fipronil Desulfinyl	101	109	P/P	59 - 126
Fipronil Sulfide	92.0	86.1	P/P	63 - 117
Fipronil Sulfone	95.0	113	P/P	57 - 117
Fluazifop-P-butyl	120	121	P/P	63 - 124
Fludioxonil	116	119	P/P	63 - 123
Flumioxazin	84.4	102	P/P	34 - 245
Flutolanil	107	119	P/P	56 - 131
Fluxapyroxad	79.5	93.8	P/P	57 - 117
Fonofos	84.2	87.7	P/P	61 - 116
Hexazinone	99.7	99.1	P/P	55 - 138
Imazalil	98.5	110	P/P	33 - 143
Iprodione	93.4	110	P/P	59 - 118
Malathion	103	104	P/P	62 - 138
Metaxyl	93.1	115	P/P	24 - 147
Metolachlor	97.8	105	P/P	68 - 118
Metribuzin	97.1	105	P/P	20 - 239
Mevinphos	104	95.4	P/P	46 - 124
Molinate	60.7	76.1	P/P	46 - 100
Myclobutanil	102	103	P/P	32 - 149
Naled	26.1	32.6	F/P	32 - 95.0
Norflurazon	104	117	P/P	57 - 127
Oxadiazon	87.8	92.7	P/P	63 - 118
Oxyfluorfen	123	136	P/P	69 - 137
Parathion Ethyl	82.1	91.1	P/P	70 - 113
Parathion Methyl	98.7	107	P/P	71 - 130

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P404820

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pendimethalin	97.9	91.4	P/P	55 - 118
Phorate	85.9	83.2	P/P	46 - 125
Prodiamine	63.9	66.4	P/P	20 - 141
Prometon	91.0	94.9	P/P	54 - 122
Prometryn	90.7	110	P/P	66 - 124
Pronamide	84.4	101	P/P	79 - 122
Propiconazole	102	106	P/P	61 - 126
Pyriproxyfen	117	127	P/P	52 - 131
Simazine	89.8	102	P/P	75 - 128
Sulfentrazone	90.7	105	P/P	20 - 132
Tebuconazole	55.8	73.7	P/P	20 - 116
Terbufos	104	105	P/P	61 - 117
Terbuthylazine	94.1	104	P/P	74 - 116

Reference Method: EPA 8276

Batch ID: P404647

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	91.7	91.1	P/P	56 - 117
Toxaphene	82.2	78.9	P/P	45 - 116

Reference Method: EPA 8321B

Batch ID: P404499

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	79.5		P	40 - 150
2,4,5-T	75.3		P	40 - 150
Acetaminophen	83.4		P	30 - 150
Acetamiprid	77.5		P	40 - 150
Afidopyropen	68.7		P	40 - 150
Bentazon	103		P	30 - 150
Benzovindiflupyr	69.2		P	40 - 150
Carbamazepine	85.9		P	40 - 150
Clothianidin	86.5		P	40 - 150
Dinotefuran	88.8		P	40 - 150
Diuron	95.8		P	40 - 150
Fenuron	86.4		P	40 - 150
Fluridone	77.0		P	40 - 150
Hydrocodone	92.7		P	40 - 150
Ibuprofen	70.3		P	40 - 150
Imazapyr	78.3		P	40 - 150
Imidacloprid	85.3		P	40 - 150
Linuron	79.7		P	40 - 150
Mandestrobin	74.0		P	40 - 150
MCPP	79.4		P	40 - 150
Naproxen	83.1		P	40 - 150
Primidone	72.6		P	40 - 150
Pyraclostrobin	62.7		P	40 - 150
Thiamethoxam	87.3		P	40 - 150
Tolfenpyrad	40.6		P	30 - 150
Triclopyr	81.8		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P404607

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	99.4		P	40 - 150
AMPA	92.3		P	40 - 160
Endothall	76.8		P	40 - 150
Glufosinate	108		P	40 - 160
Glyphosate	77.7		P	40 - 160
Sucralose	122		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P404711

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	90.2		P	40 - 150
Aldicarb	43.6		P	30 - 150
Aldicarb Sulfone	87.9		P	40 - 150
Aldicarb Sulfoxide	94.0		P	40 - 150
Carbaryl	88.3		P	40 - 150
Carbofuran	88.7		P	40 - 150
Methiocarb	90.6		P	40 - 150
Methomyl	89.8		P	40 - 150
Oxamyl	95.0		P	40 - 150
Propoxur	90.1		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P404823

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.7		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P404829

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P404846

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P404700

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2279927	Calcium	104		P	80 - 120
2279927	Iron	103		P	80 - 120
2279927	Magnesium	102		P	80 - 120
2279927	Manganese	98.0		P	80 - 120
2279927	Zinc	103		P	80 - 120
2279948	Calcium	103		P	80 - 120
2279948	Iron	109	105	P/P	80 - 120
2279948	Magnesium	108	103	P/P	80 - 120
2279948	Manganese	101	98.1	P/P	80 - 120
2279948	Zinc	107	105	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P404700

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2279927	Aluminum	104		P	80 - 120
2279927	Antimony	111		P	80 - 120
2279927	Arsenic	101		P	80 - 120
2279927	Beryllium	103		P	80 - 120
2279927	Cadmium	108		P	80 - 120
2279927	Chromium	103		P	80 - 120
2279927	Copper	96.3		P	80 - 120
2279927	Lead	100		P	80 - 120
2279927	Nickel	94.3		P	80 - 120
2279927	Selenium	101		P	80 - 120
2279927	Silver	97.2		P	80 - 120
2279927	Thallium	108		P	80 - 120
2279948	Aluminum	99.9	103	P/P	80 - 120
2279948	Antimony	107	110	P/P	80 - 120
2279948	Arsenic	98.9	101	P/P	80 - 120
2279948	Beryllium	102	103	P/P	80 - 120
2279948	Cadmium	101	103	P/P	80 - 120
2279948	Chromium	99.9	103	P/P	80 - 120
2279948	Copper	94.4	96.6	P/P	80 - 120
2279948	Lead	97.2	99.5	P/P	80 - 120
2279948	Nickel	94.2	96.1	P/P	80 - 120
2279948	Selenium	98.1	101	P/P	80 - 120
2279948	Silver	94.5	98.0	P/P	80 - 120
2279948	Thallium	105	108	P/P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P404905

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2280276	Ammonia-N	99.0	98.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P404874

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2280370	Kjeldahl Nitrogen	99.0	95.2	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P404781

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2280402	NO2NO3-N	103	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P404739

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2280274	Total-P	104	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P404596

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2280571	O-Phosphate-P	98.2	98.5	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P404647

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2281053	Aldrin	60.7	51.8	P/P	10 - 94.0
2281053	Alpha-BHC	85.3	87.9	P/P	71 - 108
2281053	Alpha-Chlordane	92.9	83.0	P/P	42 - 115
2281053	Beta-BHC	122	97.4	P/P	56 - 161
2281053	Beta-Cyfluthrin	100	100	P/P	46 - 190
2281053	Bifenthrin	89.8	64.4	P/P	19 - 126
2281053	Chlorothalonil	23.0	18.8	P/P	10 - 262
2281053	Cis-Nonachlor	81.4	77.6	P/P	44 - 112
2281053	Cypermethrin	94.0	91.1	P/P	40 - 178
2281053	Dacthal	99.8	93.5	P/P	60 - 119
2281053	DDD-p,p'	81.0	74.9	P/P	40 - 114
2281053	DDE-p,p'	88.6	75.0	P/P	22 - 125
2281053	DDT-p,p'	80.6	73.5	P/P	39 - 110
2281053	Delta-BHC	117	104	P/P	64 - 174
2281053	Deltamethrin	114	116	P/P	10 - 227
2281053	Dichlobenil	62.3	63.3	P/P	20 - 99.0
2281053	Dicofol	88.3	79.5	P/P	43 - 115
2281053	Dieldrin	89.1	79.2	P/P	31 - 131
2281053	Endosulfan I	90.1	81.2	P/P	52 - 110
2281053	Endosulfan II	79.4	77.5	P/P	53 - 127
2281053	Endosulfan Sulfate	82.5	79.7	P/P	44 - 135
2281053	Endrin	75.1	73.8	P/P	36 - 122
2281053	Endrin Aldehyde	69.7	58.0	P/P	23 - 115
2281053	Endrin Ketone	85.1	81.1	P/P	46 - 147
2281053	Esfenvalerate	100	99.3	P/P	25 - 217
2281053	Ethalfuralin	80.0	74.3	P/P	46 - 99.0
2281053	Fenpropathrin	106	89.8	P/P	42 - 121
2281053	Gamma-BHC	102	91.5	P/P	63 - 131
2281053	Gamma-Chlordane	90.4	79.8	P/P	40 - 108
2281053	Heptachlor	67.8	63.1	P/P	38 - 98.0
2281053	Heptachlor Epoxide	88.2	80.5	P/P	39 - 124
2281053	Hexachlorobenzene	78.3	72.1	P/P	37 - 96.0
2281053	Kepone	111	107	P/P	10 - 216
2281053	Lambda-Cyhalothrin	91.6	86.9	P/P	21 - 220

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P404647

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2281053	Methoprene	93.2	82.3	P/P	50 - 170
2281053	Methoxychlor	108	83.4	P/P	56 - 118
2281053	MGK-264	90.0	87.7	P/P	28 - 125
2281053	Mirex	67.7	57.8	P/P	10 - 203
2281053	Oxychlorthane	88.5	81.6	P/P	50 - 170
2281053	Permethrin	98.4	85.0	P/P	42 - 173
2281053	Phenothrin	81.0	70.2	P/P	10 - 140
2281053	Piperonyl Butoxide	91.8	98.2	P/P	10 - 158
2281053	Prallethrin	91.2	89.8	P/P	19 - 119
2281053	Tau-Fluvalinate	92.2	85.2	P/P	27 - 164
2281053	Tetramethrin	119	96.1	P/P	16 - 130
2281053	Trans-Nonachlor	90.9	80.8	P/P	43 - 105
2281053	Triclosan Methyl	101	89.9	P/P	50 - 113
2281053	Trifluralin	80.1	72.0	P/P	48 - 98.0

Reference Method: EPA 8270E

Batch ID: P404820

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2280440	Acetochlor	113	120	P/P	66 - 122
2280440	Alachlor	107	107	P/P	65 - 122
2280440	Ametryn	97.3	89.3	P/P	45 - 173
2280440	Atrazine Desethyl	70.3	69.7	P/P	25 - 150
2280440	Azinphos Methyl	111	120	P/P	44 - 174
2280440	Azoxystrobin	110	114	P/P	10 - 268
2280440	Bromacil	80.9	99.7	P/P	31 - 145
2280440	Butylate	38.0	47.4	P/P	15 - 97.0
2280440	Carbophenothion	93.6	72.8	P/P	42 - 129
2280440	Carfentrazone Ethyl	128	101	P/P	62 - 145
2280440	Chlorpyrifos Ethyl	76.4	75.1	P/P	60 - 124
2280440	Chlorpyrifos Methyl	96.7	96.8	P/P	66 - 119
2280440	Cyanazine	103	107	P/P	17 - 225
2280440	Demeton	80.6	85.8	P/P	36 - 142
2280440	Diazinon	108	115	P/P	70 - 128
2280440	Difenoconazole	149	159	P/P	33 - 222
2280440	Dimethenamid	95.3	94.9	P/P	54 - 125
2280440	Disulfoton	86.6	89.0	P/P	49 - 133
2280440	Dithiopyr	116	111	P/P	55 - 123
2280440	EPTC	38.2	55.2	P/P	19 - 91.0
2280440	Ethion	79.1	80.8	P/P	13 - 143
2280440	Ethoprop	91.7	92.2	P/P	49 - 144
2280440	Fenamiphos	70.2	73.3	P/P	32 - 136
2280440	Fenbuconazole	101	100	P/P	73 - 148
2280440	Fipronil	94.7	105	P/P	57 - 129
2280440	Fipronil Desulfinyl	93.4	103	P/P	49 - 127
2280440	Fipronil Sulfide	88.3	96.6	P/P	44 - 127
2280440	Fipronil Sulfone	88.1	96.4	P/P	35 - 126
2280440	Fluazifop-P-butyl	121	127	P/P	67 - 129
2280440	Fludioxonil	100	117	P/P	61 - 126
2280440	Flumioxazin	98.0	92.4	P/P	38 - 279
2280440	Flutolanil	119	131	P/P	55 - 136
2280440	Fluxapyroxad	120	110	P/P	33 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P404820

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2280440	Fonofos	80.6	83.4	P/P	58 - 125
2280440	Imazalil	213	215	P/P	10 - 221
2280440	Iprodione	126	137	P/P	32 - 140
2280440	Malathion	95.3	105	P/P	52 - 138
2280440	Metalaxyl	109	108	P/P	46 - 134
2280440	Metolachlor	97.6	108	P/P	58 - 122
2280440	Metribuzin	118	133	P/P	16 - 272
2280440	Mevinphos	129	115	P/P	45 - 140
2280440	Molinate	74.2	74.0	P/P	41 - 103
2280440	Myclobutanil	97.6	104	P/P	60 - 134
2280440	Naled	26.2	30.4	P/P	20 - 113
2280440	Oxyfluorfen	133	133	P/P	66 - 176
2280440	Parathion Ethyl	105	98.7	P/P	57 - 132
2280440	Parathion Methyl	115	111	P/P	59 - 156
2280440	Pendimethalin	108	115	P/P	59 - 129
2280440	Phorate	80.9	84.1	P/P	47 - 136
2280440	Prodiamine	79.4	85.4	P/P	10 - 159
2280440	Prometon	78.1	95.0	P/P	59 - 127
2280440	Prometryn	104	105	P/P	59 - 129
2280440	Pronamide	85.4	92.2	P/P	65 - 145
2280440	Pyriproxyfen	128	101	P/P	21 - 180
2280440	Tebuconazole	59.8	61.9	P/P	10 - 117
2280440	Terbufos	113	112	P/P	61 - 131
2280440	Terbuthylazine	104	101	P/P	62 - 126

Reference Method: EPA 8276

Batch ID: P404647

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2281089	Chlordane	95.8	92.5	P/P	47 - 128
2281089	Toxaphene	78.2	76.5	P/P	11 - 163

Reference Method: EPA 8321B

Batch ID: P404499

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2278894	2,4-D	114	118	P/P	40 - 150
2278894	2,4,5-T	114	125	P/P	40 - 150
2278894	Acetaminophen	93.9	137	P/P	30 - 150
2278894	Acetamiprid	83.5	97.2	P/P	40 - 150
2278894	Afidopyropen	66.7	82.2	P/P	40 - 150
2278894	Bentazon	104	116	P/P	30 - 150
2278894	Benzovindiflupyr	89.2	97.7	P/P	40 - 150
2278894	Carbamazepine	98.4	118	P/P	40 - 150
2278894	Clothianidin	108	126	P/P	40 - 150
2278894	Dinotefuran	101	120	P/P	40 - 150
2278894	Diuron	94.0	116	P/P	40 - 150
2278894	Fenuron	97.4	107	P/P	40 - 150
2278894	Fluridone	88.3	97.4	P/P	40 - 150
2278894	Hydrocodone	84.2	111	P/P	40 - 150
2278894	Ibuprofen	98.8	113	P/P	40 - 150
2278894	Imazapyr	104	137	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P404499

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2278894	Imidacloprid	106	135	P/P	40 - 150
2278894	Linuron	75.3	85.4	P/P	40 - 150
2278894	Mandestrobin	90.0	104	P/P	40 - 150
2278894	MCPD	119	128	P/P	40 - 150
2278894	Naproxen	115	115	P/P	40 - 150
2278894	Primidone	96.1	109	P/P	40 - 150
2278894	Pyraclostrobin	78.2	91.4	P/P	40 - 150
2278894	Thiamethoxam	109	121	P/P	40 - 150
2278894	Tolfenpyrad	51.1	51.2	P/P	30 - 150
2278894	Triclopyr	91.5	113	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P404607

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2281077	Acesulfame K	112	125	P/P	40 - 150
2281077	AMPA	71.2	68.3	P/P	40 - 160
2281077	Endothall	97.4	106	P/P	40 - 150
2281077	Glufosinate	93.9	92.1	P/P	40 - 160
2281077	Glyphosate	60.8	64.4	P/P	40 - 160
2281077	Sucralose	115	124	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P404711

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2280437	3-Hydroxycarbofuran	110	115	P/P	40 - 150
2280437	Aldicarb	69.5	70.7	P/P	30 - 150
2280437	Aldicarb Sulfone	106	127	P/P	40 - 150
2280437	Aldicarb Sulfoxide	41.2	52.0	P/P	40 - 150
2280437	Carbaryl	72.4	84.3	P/P	40 - 150
2280437	Carbofuran	84.1	86.6	P/P	40 - 150
2280437	Methiocarb	75.0	84.7	P/P	40 - 150
2280437	Methomyl	85.5	92.0	P/P	40 - 150
2280437	Oxamyl	94.9	107	P/P	40 - 150
2280437	Propoxur	79.6	85.9	P/P	40 - 150

Reference Method: SM 5310 B-2011

Batch ID: P404846

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2280430	Organic Carbon	94.0	92.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P404634

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2280429	Turbidity	0.0	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P404700

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2279948	Calcium	2.73	Spike	P	0 - 20
2279948	Iron	3.32	Spike	P	0 - 20
2279948	Magnesium	3.22	Spike	P	0 - 20
2279948	Manganese	3.01	Spike	P	0 - 20
2279948	Zinc	2.24	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P404700

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2279948	Aluminum	3.01	Spike	P	0 - 20
2279948	Antimony	2.80	Spike	P	0 - 20
2279948	Arsenic	2.01	Spike	P	0 - 20
2279948	Beryllium	0.651	Spike	P	0 - 20
2279948	Cadmium	1.95	Spike	P	0 - 20
2279948	Chromium	3.40	Spike	P	0 - 20
2279948	Copper	2.36	Spike	P	0 - 20
2279948	Lead	2.29	Spike	P	0 - 20
2279948	Nickel	2.02	Spike	P	0 - 20
2279948	Selenium	3.08	Spike	P	0 - 20
2279948	Silver	3.56	Spike	P	0 - 20
2279948	Thallium	2.86	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P404905

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2280276	Ammonia-N	0.290	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P404874

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2280370	Kjeldahl Nitrogen	3.24	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P404781

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2280402	NO2NO3-N	0.976	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P404739

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2280274	Total-P	2.65	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P404596

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2280571	O-Phosphate-P	0.205	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P404647

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2281053	Aldrin	15.9	Spike	P	0 - 30
2281053	Alpha-BHC	3.03	Spike	P	0 - 30
2281053	Alpha-Chlordane	11.3	Spike	P	0 - 30
2281053	Beta-BHC	22.2	Spike	P	0 - 30
2281053	Beta-Cyfluthrin	0.269	Spike	P	0 - 30
2281053	Bifenthrin	33.0	Spike	F	0 - 30
2281053	Chlorothalonil	20.2	Spike	P	0 - 50
2281053	Cis-Nonachlor	4.83	Spike	P	0 - 30
2281053	Cypermethrin	3.15	Spike	P	0 - 30
2281053	Dacthal	6.51	Spike	P	0 - 30
2281053	DDD-p,p'	7.82	Spike	P	0 - 30
2281053	DDE-p,p'	16.6	Spike	P	0 - 30
2281053	DDT-p,p'	9.29	Spike	P	0 - 30
2281053	Delta-BHC	12.1	Spike	P	0 - 30
2281053	Deltamethrin	1.23	Spike	P	0 - 30
2281053	Dichlobenil	1.50	Spike	P	0 - 30
2281053	Dicofol	10.5	Spike	P	0 - 30
2281053	Dieldrin	11.7	Spike	P	0 - 30
2281053	Endosulfan I	10.4	Spike	P	0 - 30
2281053	Endosulfan II	2.48	Spike	P	0 - 30
2281053	Endosulfan Sulfate	3.39	Spike	P	0 - 30
2281053	Endrin	1.82	Spike	P	0 - 30
2281053	Endrin Aldehyde	18.4	Spike	P	0 - 30
2281053	Endrin Ketone	4.86	Spike	P	0 - 30
2281053	Esfenvalerate	1.13	Spike	P	0 - 30
2281053	Ethalfuralin	7.39	Spike	P	0 - 30
2281053	Fenpropathrin	16.5	Spike	P	0 - 30
2281053	Gamma-BHC	10.4	Spike	P	0 - 30
2281053	Gamma-Chlordane	12.5	Spike	P	0 - 30
2281053	Heptachlor	7.31	Spike	P	0 - 30
2281053	Heptachlor Epoxide	9.10	Spike	P	0 - 30
2281053	Hexachlorobenzene	8.35	Spike	P	0 - 30
2281053	Kepone	3.94	Spike	P	0 - 30
2281053	Lambda-Cyhalothrin	5.31	Spike	P	0 - 30
2281053	Methoprene	12.4	Spike	P	0 - 30
2281053	Methoxychlor	26.0	Spike	P	0 - 30
2281053	MGK-264	2.59	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P404647

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2281053	Mirex	15.7	Spike	P	0 - 30
2281053	Oxychlordane	8.18	Spike	P	0 - 30
2281053	Permethrin	14.6	Spike	P	0 - 30
2281053	Phenothrin	14.3	Spike	P	0 - 30
2281053	Piperonyl Butoxide	6.70	Spike	P	0 - 30
2281053	Prallethrin	1.61	Spike	P	0 - 30
2281053	Tau-Fluvalinate	7.95	Spike	P	0 - 30
2281053	Tetramethrin	21.2	Spike	P	0 - 30
2281053	Trans-Nonachlor	11.7	Spike	P	0 - 30
2281053	Triclosan Methyl	11.2	Spike	P	0 - 30
2281053	Trifluralin	10.7	Spike	P	0 - 30
LFB	Aldrin	5.51	LCS	P	0 - 30
LFB	Alpha-BHC	2.49	LCS	P	0 - 30
LFB	Alpha-Chlordane	13.4	LCS	P	0 - 30
LFB	Beta-BHC	12.1	LCS	P	0 - 30
LFB	Beta-Cyfluthrin	6.24	LCS	P	0 - 30
LFB	Bifenthrin	3.55	LCS	P	0 - 30
LFB	Chlorothalonil	4.77	LCS	P	0 - 50
LFB	Cis-Nonachlor	12.0	LCS	P	0 - 30
LFB	Cypermethrin	7.22	LCS	P	0 - 30
LFB	Dacthal	8.09	LCS	P	0 - 30
LFB	DDD-p,p'	9.51	LCS	P	0 - 30
LFB	DDE-p,p'	10.1	LCS	P	0 - 30
LFB	DDT-p,p'	9.63	LCS	P	0 - 30
LFB	Delta-BHC	14.7	LCS	P	0 - 30
LFB	Deltamethrin	15.7	LCS	P	0 - 30
LFB	Dichlobenil	6.02	LCS	P	0 - 30
LFB	Dicofol	6.33	LCS	P	0 - 30
LFB	Dieldrin	10.6	LCS	P	0 - 30
LFB	Endosulfan I	9.52	LCS	P	0 - 30
LFB	Endosulfan II	13.7	LCS	P	0 - 30
LFB	Endosulfan Sulfate	22.9	LCS	P	0 - 30
LFB	Endrin	10.7	LCS	P	0 - 30
LFB	Endrin Aldehyde	34.7	LCS	F	0 - 30
LFB	Endrin Ketone	20.3	LCS	P	0 - 30
LFB	Esfenvalerate	7.80	LCS	P	0 - 30
LFB	Ethalfuralin	1.75	LCS	P	0 - 30
LFB	Fenpropathrin	8.17	LCS	P	0 - 30
LFB	Gamma-BHC	1.81	LCS	P	0 - 30
LFB	Gamma-Chlordane	11.5	LCS	P	0 - 30
LFB	Heptachlor	0.00219	LCS	P	0 - 30
LFB	Heptachlor Epoxide	7.14	LCS	P	0 - 30
LFB	Hexachlorobenzene	5.81	LCS	P	0 - 30
LFB	Kepone	97.7	LCS	F	0 - 30
LFB	Lambda-Cyhalothrin	4.43	LCS	P	0 - 30
LFB	Methoprene	11.1	LCS	P	0 - 30
LFB	Methoxychlor	6.11	LCS	P	0 - 30
LFB	MGK-264	36.0	LCS	F	0 - 30
LFB	Mirex	3.15	LCS	P	0 - 30
LFB	Oxychlordane	5.64	LCS	P	0 - 30
LFB	Permethrin	8.15	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P404647

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Phenothrin	15.3	LCS	P	0 - 30
LFB	Piperonyl Butoxide	15.6	LCS	P	0 - 30
LFB	Prallethrin	26.2	LCS	P	0 - 30
LFB	Tau-Fluvalinate	14.2	LCS	P	0 - 30
LFB	Tetramethrin	20.3	LCS	P	0 - 30
LFB	Trans-Nonachlor	13.6	LCS	P	0 - 30
LFB	Triclosan Methyl	14.4	LCS	P	0 - 30
LFB	Trifluralin	4.21	LCS	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P404820

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2280440	Acetochlor	5.56	Spike	P	0 - 30
2280440	Alachlor	0.274	Spike	P	0 - 30
2280440	Ametryn	5.17	Spike	P	0 - 30
2280440	Atrazine	9.38	Spike	P	0 - 30
2280440	Atrazine Desethyl	0.637	Spike	P	0 - 30
2280440	Azinphos Methyl	7.75	Spike	P	0 - 30
2280440	Azoxystrobin	2.41	Spike	P	0 - 30
2280440	Bromacil	17.8	Spike	P	0 - 30
2280440	Butylate	22.0	Spike	P	0 - 30
2280440	Caffeine	4.02	Spike	P	0 - 30
2280440	Carbophenothion	25.0	Spike	P	0 - 30
2280440	Carfentrazone Ethyl	23.7	Spike	P	0 - 30
2280440	Chlorpyrifos Ethyl	1.68	Spike	P	0 - 30
2280440	Chlorpyrifos Methyl	0.0620	Spike	P	0 - 30
2280440	Cyanazine	4.23	Spike	P	0 - 30
2280440	Demeton	6.22	Spike	P	0 - 30
2280440	Diazinon	6.05	Spike	P	0 - 30
2280440	Difenoconazole	6.44	Spike	P	0 - 30
2280440	Dimethenamid	0.436	Spike	P	0 - 30
2280440	Disulfoton	2.70	Spike	P	0 - 30
2280440	Dithiopyr	4.52	Spike	P	0 - 30
2280440	EPTC	36.5	Spike	F	0 - 30
2280440	Ethion	2.12	Spike	P	0 - 30
2280440	Ethoprop	0.548	Spike	P	0 - 30
2280440	Fenamiphos	4.31	Spike	P	0 - 30
2280440	Fenbuconazole	0.707	Spike	P	0 - 30
2280440	Fipronil	9.12	Spike	P	0 - 30
2280440	Fipronil Desulfinyl	8.56	Spike	P	0 - 30
2280440	Fipronil Sulfide	7.36	Spike	P	0 - 30
2280440	Fipronil Sulfone	5.90	Spike	P	0 - 30
2280440	Fluazifop-P-butyl	4.10	Spike	P	0 - 30
2280440	Fludioxonil	16.0	Spike	P	0 - 30
2280440	Flumioxazin	5.86	Spike	P	0 - 30
2280440	Flutolanil	9.97	Spike	P	0 - 30
2280440	Fluxapyroxad	6.38	Spike	P	0 - 30
2280440	Fonofos	3.37	Spike	P	0 - 30
2280440	Hexazinone	9.80	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P404820

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2280440	Imazalil	1.12	Spike	P	0 - 30
2280440	Iprodione	8.22	Spike	P	0 - 30
2280440	Malathion	9.40	Spike	P	0 - 30
2280440	Metalaxyl	0.710	Spike	P	0 - 30
2280440	Metolachlor	7.81	Spike	P	0 - 30
2280440	Metribuzin	12.0	Spike	P	0 - 30
2280440	Mevinphos	10.7	Spike	P	0 - 30
2280440	Molinate	0.235	Spike	P	0 - 30
2280440	Myclobutanil	6.78	Spike	P	0 - 30
2280440	Naled	15.1	Spike	P	0 - 30
2280440	Norflurazon	4.24	Spike	P	0 - 30
2280440	Oxadiazon	13.6	Spike	P	0 - 30
2280440	Oxyfluorfen	0.327	Spike	P	0 - 30
2280440	Parathion Ethyl	6.09	Spike	P	0 - 30
2280440	Parathion Methyl	3.63	Spike	P	0 - 30
2280440	Pendimethalin	6.71	Spike	P	0 - 30
2280440	Phorate	3.98	Spike	P	0 - 30
2280440	Prodiamine	7.37	Spike	P	0 - 30
2280440	Prometon	13.4	Spike	P	0 - 30
2280440	Prometryn	1.25	Spike	P	0 - 30
2280440	Pronamide	7.67	Spike	P	0 - 30
2280440	Propiconazole	10.5	Spike	P	0 - 30
2280440	Pyriproxyfen	23.3	Spike	P	0 - 30
2280440	Simazine	4.42	Spike	P	0 - 30
2280440	Sulfentrazone	9.38	Spike	P	0 - 30
2280440	Tebuconazole	3.15	Spike	P	0 - 30
2280440	Terbufos	0.705	Spike	P	0 - 30
2280440	Terbutylazine	2.40	Spike	P	0 - 30
LFB	Acetochlor	5.50	LCS	P	0 - 30
LFB	Alachlor	11.6	LCS	P	0 - 30
LFB	Ametryn	19.6	LCS	P	0 - 30
LFB	Atrazine	3.65	LCS	P	0 - 30
LFB	Atrazine Desethyl	2.91	LCS	P	0 - 30
LFB	Azinphos Methyl	1.53	LCS	P	0 - 30
LFB	Azoxystrobin	3.27	LCS	P	0 - 30
LFB	Bromacil	13.6	LCS	P	0 - 30
LFB	Butylate	25.5	LCS	P	0 - 30
LFB	Caffeine	3.67	LCS	P	0 - 30
LFB	Carbophenothion	15.0	LCS	P	0 - 30
LFB	Carfentrazone Ethyl	7.89	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	6.08	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	3.18	LCS	P	0 - 30
LFB	Cyanazine	13.8	LCS	P	0 - 30
LFB	Demeton	4.68	LCS	P	0 - 30
LFB	Diazinon	9.89	LCS	P	0 - 30
LFB	Difenoconazole	2.12	LCS	P	0 - 30
LFB	Dimethenamid	19.9	LCS	P	0 - 30
LFB	Disulfoton	11.9	LCS	P	0 - 30
LFB	Dithiopyr	3.82	LCS	P	0 - 30
LFB	EPTC	33.4	LCS	F	0 - 30
LFB	Ethion	23.4	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P404820

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Ethoprop	4.88	LCS	P	0 - 30
LFB	Fenamiphos	3.31	LCS	P	0 - 30
LFB	Fenbuconazole	13.3	LCS	P	0 - 30
LFB	Fipronil	3.52	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	7.79	LCS	P	0 - 30
LFB	Fipronil Sulfide	6.62	LCS	P	0 - 30
LFB	Fipronil Sulfone	17.4	LCS	P	0 - 30
LFB	Fluazifop-P-butyl	0.962	LCS	P	0 - 30
LFB	Fludioxonil	2.90	LCS	P	0 - 30
LFB	Flumioxazin	18.8	LCS	P	0 - 30
LFB	Flutolanil	11.0	LCS	P	0 - 30
LFB	Fluxapyroxad	16.5	LCS	P	0 - 30
LFB	Fonofos	4.00	LCS	P	0 - 30
LFB	Hexazinone	0.648	LCS	P	0 - 30
LFB	Imazalil	11.2	LCS	P	0 - 30
LFB	Iprodione	16.3	LCS	P	0 - 30
LFB	Malathion	1.55	LCS	P	0 - 30
LFB	Metalaxyl	21.0	LCS	P	0 - 30
LFB	Metolachlor	7.58	LCS	P	0 - 30
LFB	Metribuzin	7.92	LCS	P	0 - 30
LFB	Mevinphos	9.08	LCS	P	0 - 30
LFB	Molinate	22.5	LCS	P	0 - 30
LFB	Myclobutanil	0.487	LCS	P	0 - 30
LFB	Naled	21.9	LCS	P	0 - 30
LFB	Norflurazon	11.1	LCS	P	0 - 30
LFB	Oxadiazon	5.47	LCS	P	0 - 30
LFB	Oxyfluorfen	9.83	LCS	P	0 - 30
LFB	Parathion Ethyl	10.4	LCS	P	0 - 30
LFB	Parathion Methyl	8.40	LCS	P	0 - 30
LFB	Pendimethalin	6.87	LCS	P	0 - 30
LFB	Phorate	3.20	LCS	P	0 - 30
LFB	Prodiamine	3.80	LCS	P	0 - 30
LFB	Prometon	4.21	LCS	P	0 - 30
LFB	Prometryn	19.6	LCS	P	0 - 30
LFB	Pronamide	18.1	LCS	P	0 - 30
LFB	Propiconazole	4.21	LCS	P	0 - 30
LFB	Pyriproxyfen	8.64	LCS	P	0 - 30
LFB	Simazine	12.7	LCS	P	0 - 30
LFB	Sulfentrazone	14.4	LCS	P	0 - 30
LFB	Tebuconazole	27.7	LCS	P	0 - 30
LFB	Terbufos	1.21	LCS	P	0 - 30
LFB	Terbutylazine	9.55	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P404647

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2281089	Chlordane	3.52	Spike	P	0 - 30
2281089	Toxaphene	2.27	Spike	P	0 - 30
LFB	Chlordane	0.657	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P404647

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Toxaphene	4.10	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P404499

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2278894	2,4-D	3.34	Spike	P	0 - 30
2278894	2,4,5-T	9.33	Spike	P	0 - 30
2278894	Acetaminophen	37.3	Spike	F	0 - 30
2278894	Acetamiprid	15.2	Spike	P	0 - 30
2278894	Afidopyropen	20.9	Spike	P	0 - 30
2278894	Bentazon	11.2	Spike	P	0 - 30
2278894	Benzovindiflupyr	9.08	Spike	P	0 - 30
2278894	Carbamazepine	17.9	Spike	P	0 - 30
2278894	Clothianidin	15.1	Spike	P	0 - 30
2278894	Dinotefuran	17.4	Spike	P	0 - 30
2278894	Diuron	20.6	Spike	P	0 - 30
2278894	Fenuron	9.73	Spike	P	0 - 30
2278894	Fluridone	9.81	Spike	P	0 - 30
2278894	Hydrocodone	27.2	Spike	P	0 - 30
2278894	Ibuprofen	13.3	Spike	P	0 - 30
2278894	Imazapyr	24.8	Spike	P	0 - 30
2278894	Imidacloprid	23.8	Spike	P	0 - 30
2278894	Linuron	12.6	Spike	P	0 - 30
2278894	Mandestrobin	14.5	Spike	P	0 - 30
2278894	MCP	7.54	Spike	P	0 - 30
2278894	Naproxen	0.256	Spike	P	0 - 30
2278894	Primidone	12.9	Spike	P	0 - 30
2278894	Pyraclostrobin	15.5	Spike	P	0 - 30
2278894	Thiamethoxam	10.7	Spike	P	0 - 30
2278894	Tolfenpyrad	0.144	Spike	P	0 - 30
2278894	Triclopyr	21.4	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P404607

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2281077	Acesulfame K	11.0	Spike	P	0 - 30
2281077	AMPA	3.46	Spike	P	0 - 30
2281077	Endothall	8.10	Spike	P	0 - 30
2281077	Glufosinate	1.91	Spike	P	0 - 30
2281077	Glyphosate	4.57	Spike	P	0 - 30
2281077	Sucralose	7.28	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P404711

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

Reference Method: EPA 8321B
Batch ID: P404711

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2280437	3-Hydroxycarbofuran	4.72	Spike	P	0 - 30
2280437	Aldicarb	1.65	Spike	P	0 - 30
2280437	Aldicarb Sulfone	18.1	Spike	P	0 - 30
2280437	Aldicarb Sulfoxide	23.1	Spike	P	0 - 30
2280437	Carbaryl	15.2	Spike	P	0 - 30
2280437	Carbofuran	2.97	Spike	P	0 - 30
2280437	Methiocarb	12.1	Spike	P	0 - 30
2280437	Methomyl	7.29	Spike	P	0 - 30
2280437	Oxamyl	12.2	Spike	P	0 - 30
2280437	Propoxur	7.58	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P404823

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2280743	Total Alkalinity	1.65	Sample	P	0 - 5.2

Reference Method: SM 4500 F-C-2011
Batch ID: P404829

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2280743	Fluoride	0.953	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P404846

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2280430	Organic Carbon	0.870	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2280437
Field Sample ID: G2SE0061

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	76.3	P	30 - 160

Lab Sample ID: 2280438
Field Sample ID: G2SE0061

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	155	P	30 - 160
EPA 8321B	Acetaminophen-d4	112	P	30 - 160
EPA 8321B	Carbamazepine-d10	117	P	30 - 160
EPA 8321B	Diuron-d6	89.6	P	30 - 160
EPA 8321B	Endothall-d6	58.0	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	65.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	82.8	P	30 - 160
EPA 8321B	Primidone-d5	74.3	P	30 - 160
EPA 8321B	Sucralose-d6	104	P	30 - 160

Lab Sample ID: 2280439
Field Sample ID: G2SE0061

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	72.5	P	29 - 123
EPA 8270E	Tetrachloro-m-xylene	67.2	P	24 - 97.0
EPA 8276	Decachlorobiphenyl	88.9	P	29 - 92.0
EPA 8276	PCNB	80.6	P	43 - 134

Lab Sample ID: 2280440
Field Sample ID: G2SE0061

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	68.6	P	20 - 200
EPA 8270E	Simazine-d10	106	P	73 - 135
EPA 8270E	Terbufos-d10	104	P	58 - 130

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A108152

Included Lab Sample IDs: 2280431

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.3	97.5	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A108168

Included Lab Sample IDs: 2280429

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

Reference Method: EPA 8321B

Run ID: A108217

Included Lab Sample IDs: 2280438

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	96.6	92.7	P/P	60 - 160
Glufosinate	112	114	P/P	60 - 160
Glyphosate	79.7	77.3	P/P	60 - 160

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A108229

Included Lab Sample IDs: 2280430

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A108233

Included Lab Sample IDs: 2280430

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

Reference Method: EPA 8321B

Run ID: A108249

Included Lab Sample IDs: 2280438

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	98.9	102	P/P	60 - 160
Endothall	67.4	71.9	P/P	60 - 160
Sucralose	123	122	P/P	60 - 160

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A108250

Included Lab Sample IDs: 2280441, 2280442, 2280443, 2280444

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	102	106	P/P	90 - 110
Antimony	109	107	P/P	90 - 110
Arsenic	96.8	100	P/P	90 - 110
Beryllium	97.3	100	P/P	90 - 110
Cadmium	104	102	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A108250

Included Lab Sample IDs: 2280441, 2280442, 2280443, 2280444

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chromium	98.5	98.6	P/P	90 - 110
Copper	91.6	98.1	P/P	90 - 110
Lead	93.8	94.2	P/P	90 - 110
Nickel	91.8	98.5	P/P	90 - 110
Selenium	102	103	P/P	90 - 110
Silver	95.2	96.0	P/P	90 - 110
Thallium	100	99.7	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A108253

Included Lab Sample IDs: 2280429

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.3	99.6	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A108253

Included Lab Sample IDs: 2280429

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A108254

Included Lab Sample IDs: 2280441, 2280442, 2280443, 2280444

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	103	103	P/P	90 - 110
Calcium	103	103	P/P	90 - 110
Iron	101	102	P/P	90 - 110
Iron	102	101	P/P	90 - 110
Magnesium	101	101	P/P	90 - 110
Magnesium	101	101	P/P	90 - 110
Manganese	101	98.3	P/P	90 - 110
Manganese	98.3	101	P/P	90 - 110
Zinc	101	102	P/P	90 - 110
Zinc	104	101	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A108255

Included Lab Sample IDs: 2280438

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	80.6	88.5	P/P	50 - 150
2,4,5-T	88.4	81.3	P/P	50 - 150
3-Hydroxycarbofuran	104	104	P/P	60 - 150
Acetaminophen	87.4	94.6	P/P	60 - 160
Acetamiprid	103	96.5	P/P	50 - 150
Afidopyropen	96.2	104	P/P	50 - 150
Aldicarb	77.3	88.1	P/P	60 - 150
Aldicarb Sulfone	103	103	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A108255
Included Lab Sample IDs: 2280437

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldicarb Sulfoxide	115	109	P/P	50 - 150
Bentazon	108	109	P/P	50 - 160
Benzovindiflupyr	86.5	88.1	P/P	50 - 150
Carbamazepine	104	102	P/P	60 - 150
Carbaryl	90.1	111	P/P	60 - 150
Carbofuran	103	116	P/P	50 - 150
Clothianidin	104	109	P/P	60 - 150
Dinotefuran	112	103	P/P	50 - 150
Diuron	121	123	P/P	60 - 160
Fenuron	99.5	99.5	P/P	60 - 150
Fluridone	95.7	94.3	P/P	60 - 160
Hydrocodone	106	96.4	P/P	60 - 150
Ibuprofen	77.7	107	P/P	50 - 160
Imazapyr	95.5	110	P/P	50 - 150
Imidacloprid	109	99.1	P/P	60 - 150
Linuron	95.3	87.3	P/P	60 - 150
Mandestrobin	93.5	91.2	P/P	50 - 150
MCPP	96.7	86.9	P/P	50 - 150
Methiocarb	96.6	118	P/P	50 - 150
Methomyl	112	101	P/P	50 - 150
Naproxen	128	116	P/P	50 - 160
Oxamyl	104	113	P/P	50 - 150
Primidone	88.5	86.7	P/P	60 - 150
Propoxur	114	113	P/P	50 - 150
Pyraclostrobin	88.0	92.5	P/P	60 - 150
Thiamethoxam	99.0	98.7	P/P	50 - 150
Tolfenpyrad	96.8	97.3	P/P	60 - 150
Triclopyr	86.3	105	P/P	50 - 150

Reference Method: SM 5310 B-2011
Run ID: A108262
Included Lab Sample IDs: 2280430

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A108277
Included Lab Sample IDs: 2280430

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.0	98.2	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A108299
Included Lab Sample IDs: 2280439

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	97.6		P	80 - 120
Alpha-BHC	96.7		P	80 - 120
Alpha-Chlordane	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A108299
Included Lab Sample IDs: 2280439

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beta-BHC	92.8		P	80 - 120
Beta-Cyfluthrin	97.5		P	80 - 120
Bifenthrin	96.8		P	80 - 120
Chlorothalonil	84.2		P	80 - 120
Cis-Nonachlor	98.1		P	80 - 120
Cypermethrin	95.0		P	80 - 120
Dacthal	102		P	80 - 120
DDD-p,p'	95.3		P	80 - 120
DDE-p,p'	98.6		P	80 - 120
DDT-p,p'	92.0		P	80 - 120
Delta-BHC	94.1		P	80 - 120
Deltamethrin	93.7		P	80 - 120
Dichlobenil	95.4		P	80 - 120
Dicofol	97.6		P	80 - 120
Dieldrin	98.1		P	80 - 120
Endosulfan I	97.7		P	80 - 120
Endosulfan II	93.0		P	80 - 120
Endosulfan Sulfate	88.3		P	80 - 120
Endrin	91.7		P	80 - 120
Endrin Aldehyde	96.1		P	80 - 120
Endrin Ketone	95.8		P	80 - 120
Esfenvalerate	98.6		P	80 - 120
Ethalfuralin	96.3		P	80 - 120
Fenpropathrin	101		P	80 - 120
Gamma-BHC	95.0		P	80 - 120
Gamma-Chlordane	102		P	80 - 120
Heptachlor	97.2		P	80 - 120
Heptachlor Epoxide	98.0		P	80 - 120
Hexachlorobenzene	99.3		P	80 - 120
Kepone	55.3*		F	80 - 120
Lambda-Cyhalothrin	97.7		P	80 - 120
Methoprene	102		P	80 - 120
Methoxychlor	102		P	80 - 120
MGK-264	99.0		P	80 - 120
Mirex	89.3		P	80 - 120
Oxychlordane	97.9		P	80 - 120
Permethrin	97.5		P	80 - 120
Phenothrin	100		P	80 - 120
Piperonyl Butoxide	96.4		P	80 - 120
Prallethrin	100		P	80 - 120
Tau-Fluvalinate	96.2		P	80 - 120
Tetramethrin	109		P	80 - 120
Trans-Nonachlor	102		P	80 - 120
Triclosan Methyl	104		P	80 - 120
Trifluralin	97.4		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A108306
Included Lab Sample IDs: 2280430

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A108306

Included Lab Sample IDs: 2280430

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.8	99.8	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A108325

Included Lab Sample IDs: 2280439

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.6		P	80 - 120
Toxaphene	94.7		P	80 - 120

Reference Method: EPA 8270E

Run ID: A108346

Included Lab Sample IDs: 2280440

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	111		P	80 - 120
Alachlor	109		P	80 - 120
Ametryn	102		P	80 - 120
Atrazine Desethyl	96.3		P	80 - 120
Azoxystrobin	90.7		P	80 - 120
Bromacil	99.5		P	80 - 120
Butylate	105		P	80 - 120
Caffeine	97.6		P	80 - 120
Carbophenothion	89.8		P	80 - 120
Carfentrazone Ethyl	94.6		P	80 - 120
Chlorpyrifos Ethyl	111		P	80 - 120
Chlorpyrifos Methyl	111		P	80 - 120
Cyanazine	109		P	80 - 120
Demeton	103		P	80 - 120
Dimethenamid	111		P	80 - 120
Disulfoton	105		P	80 - 120
Dithiopyr	110		P	80 - 120
Ethoprop	104		P	80 - 120
Fenamiphos	116		P	80 - 120
Fipronil Sulfide	103		P	80 - 120
Fipronil Sulfone	108		P	80 - 120
Fluazifop-P-butyl	102		P	80 - 120
Fludioxonil	84.3		P	80 - 120
Flutolanil	109		P	80 - 120
Fonofos	106		P	80 - 120
Imazalil	99.2		P	80 - 120
Iprodione	96.3		P	80 - 120
Malathion	103		P	80 - 120
Metalaxyl	107		P	80 - 120
Metolachlor	109		P	80 - 120
Metribuzin	102		P	80 - 120
Mevinphos	87.7		P	80 - 120
Molinate	103		P	80 - 120
Myclobutanil	114		P	80 - 120
Naled	104		P	80 - 120
Norflurazon	92.6		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A108346
 Included Lab Sample IDs: 2280440

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Oxadiazon	110		P	80 - 120
Oxyfluorfen	107		P	80 - 120
Parathion Ethyl	95.5		P	80 - 120
Parathion Methyl	105		P	80 - 120
Pendimethalin	104		P	80 - 120
Phorate	105		P	80 - 120
Prodiamine	101		P	80 - 120
Prometryn	111		P	80 - 120
Pronamide	97.0		P	80 - 120
Propiconazole	96.3		P	80 - 120
Pyriproxyfen	98.1		P	80 - 120
Simazine	91.5		P	80 - 120
Terbufos	106		P	80 - 120
Terbutylazine	108		P	80 - 120

Reference Method: EPA 8270E
 Run ID: A108380
 Included Lab Sample IDs: 2280440

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	99.9		P	80 - 120
Azinphos Methyl	101		P	80 - 120
Diazinon	101		P	80 - 120
Difenoconazole	92.9		P	80 - 120
EPTC	101		P	80 - 120
Ethion	99.5		P	80 - 120
Fenbuconazole	110		P	80 - 120
Fipronil	102		P	80 - 120
Fipronil Desulfinyl	102		P	80 - 120
Flumioxazin	102		P	80 - 120
Fluxapyroxad	101		P	80 - 120
Hexazinone	112		P	80 - 120
Prometon	103		P	80 - 120
Sulfentrazone	104		P	80 - 120
Tebuconazole	102		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity						0.0	
EPA 200.7 Rev. 4.4	Calcium	103		104	103			2.73
	Iron	109		103	109	105		3.32
	Magnesium	109		102	108	103		3.22
	Manganese	102		98.0	101	98.1		3.01
	Zinc	102		103	107	105		2.24
EPA 200.8 Rev. 5.4	Aluminum	104		99.9	103	104		3.01
	Antimony	109		107	110	111		2.80
	Arsenic	101		98.9	101	101		2.01
	Beryllium	103		102	103	103		0.651
	Cadmium	104		101	103	108		1.95
	Chromium	99.8		99.9	103	103		3.40
	Copper	96.1		94.4	96.6	96.3		2.36
	Lead	98.5		97.2	99.5	100		2.29
	Nickel	97.1		94.2	96.1	94.3		2.02
	Selenium	102		98.1	101	101		3.08
	Silver	97.7		94.5	98.0	97.2		3.56
	Thallium	105		105	108	108		2.86
EPA 350.1 Rev. 2.0	Ammonia-N	98.2		99.0	98.6			0.290
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	98.7		99.0	95.2			3.24
EPA 353.2 Rev. 2.0	NO2NO3-N	99.5		103	102			0.976
EPA 365.1 Rev. 2.0	Total-P	108		104	108			2.65
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.5		98.2	98.5			0.205
EPA 8270E	Acetochlor	106	112	113	120	5.50		5.56
	Alachlor	90.4	101	107	107	11.6		0.274
	Aldrin	57.9	54.8	60.7	51.8	5.51		15.9
	Alpha-BHC	86.2	84.1	85.3	87.9	2.49		3.03
	Alpha-Chlordane	90.6	79.2	92.9	83.0	13.4		11.3
	Ametryn	80.0	97.4	97.3	89.3	19.6		5.17
	Atrazine	96.5	100			3.65		9.38
	Atrazine Desethyl	68.0	70.0	70.3	69.7	2.91		0.637
	Azinphos Methyl	152	154	111	120	1.53		7.75
	Azoxystrobin	95.3	98.5	110	114	3.27		2.41
	Beta-BHC	95.1	84.3	122	97.4	12.1		22.2
	Beta-Cyfluthrin	111	104	100	100	6.24		0.269
	Bifenthrin	77.8	75.1	89.8	64.4	3.55		33.0
	Bromacil	85.5	98.0	80.9	99.7	13.6		17.8
	Butylate	47.8	61.8	38.0	47.4	25.5		22.0
	Caffeine	82.8	85.9			3.67		4.02
	Carbophenothion	103	120	93.6	72.8	15.0		25.0
	Carfentrazone Ethyl	94.9	103	128	101	7.89		23.7
	Chlorothalonil	87.4	83.3	23.0	18.8	4.77		20.2
	Chlorpyrifos Ethyl	93.2	87.7	75.1	76.4	6.08		1.68
	Chlorpyrifos Methyl	98.9	95.8	96.7	96.8	3.18		0.0620
	Cis-Nonachlor	89.4	79.3	81.4	77.6	12.0		4.83
	Cyanazine	99.2	114	103	107	13.8		4.23
	Cypermethrin	102	94.9	94.0	91.1	7.22		3.15
	Dacthal	94.2	86.9	99.8	93.5	8.09		6.51
	DDD-p,p'	85.4	77.6	81.0	74.9	9.51		7.82
	DDE-p,p'	85.2	77.0	88.6	75.0	10.1		16.6
	DDT-p,p'	84.0	76.3	80.6	73.5	9.63		9.29
	Delta-BHC	99.9	86.2	117	104	14.7		12.1
	Deltamethrin	109	93.0	114	116	15.7		1.23
	Demeton	75.0	78.6	80.6	85.8	4.68		6.22

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270E	Diazinon	101	112	108	115	9.89	6.05
	Dichlobenil	72.3	68.1	62.3	63.3	6.02	1.50
	Dicofol	82.5	77.4	88.3	79.5	6.33	10.5
	Dieldrin	87.0	78.3	89.1	79.2	10.6	11.7
	Difenoconazole	132	135	149	159	2.12	6.44
	Dimethenamid	81.7	99.8	95.3	94.9	19.9	0.436
	Disulfoton	82.4	92.8	86.6	89.0	11.9	2.70
	Dithiopyr	89.7	93.2	116	111	3.82	4.52
	Endosulfan I	85.9	78.1	90.1	81.2	9.52	10.4
	Endosulfan II	82.4	71.8	79.4	77.5	13.7	2.48
	Endosulfan Sulfate	86.6	68.8	82.5	79.7	22.9	3.39
	Endrin	78.5	70.5	75.1	73.8	10.7	1.82
	Endrin Aldehyde	78.9	55.5	69.7	58.0	34.7	18.4
	Endrin Ketone	88.4	72.1	85.1	81.1	20.3	4.86
	EPTC	45.9	64.3	38.2	55.2	33.4	36.5
	Esfenvalerate	99.3	107	100	99.3	7.80	1.13
	Ethalfuralin	74.5	75.8	80.0	74.3	1.75	7.39
	Ethion	77.0	97.4	79.1	80.8	23.4	2.12
	Ethoprop	81.7	85.8	91.7	92.2	4.88	0.548
	Fenamiphos	99.6	103	70.2	73.3	3.31	4.31
	Fenbuconazole	92.2	105	101	100	13.3	0.707
	Fenpropathrin	82.8	89.8	106	89.8	8.17	16.5
	Fipronil	116	120	94.7	105	3.52	9.12
	Fipronil Desulfinyl	101	109	93.4	103	7.79	8.56
	Fipronil Sulfide	92.0	86.1	88.3	96.6	6.62	7.36
	Fipronil Sulfone	95.0	113	88.1	96.4	17.4	5.90
	Fluazifop-P-butyl	120	121	121	127	0.962	4.10
	Fludioxonil	116	119	100	117	2.90	16.0
	Flumioxazin	84.4	102	98.0	92.4	18.8	5.86
	Flutolanil	107	119	119	131	11.0	9.97
	Fluxapyroxad	79.5	93.8	120	110	16.5	6.38
	Fonofos	84.2	87.7	80.6	83.4	4.00	3.37
	Gamma-BHC	85.2	86.7	102	91.5	1.81	10.4
	Gamma-Chlordane	77.3	86.7	90.4	79.8	11.5	12.5
	Heptachlor	71.4	71.4	63.1	67.8	0.0021	7.31
	Heptachlor Epoxide	78.6	84.4	80.5	88.2	7.14	9.10
	Hexachlorobenzene	74.8	79.3	72.1	78.3	5.81	8.35
	Hexazinone	99.7	99.1			0.648	9.80
	Imazalil	98.5	110	213	215	11.2	1.12
	Iprodione	93.4	110	126	137	16.3	8.22
	Kepone	43.3	126	107	111	97.7	3.94
	Lambda-Cyhalothrin	100	96.0	86.9	91.6	4.43	5.31
	Malathion	103	104	95.3	105	1.55	9.40
	Metalaxyl	93.1	115	109	108	21.0	0.710
	Methoprene	79.5	88.8	82.3	93.2	11.1	12.4
	Methoxychlor	82.5	87.7	108	83.4	6.11	26.0
	Metolachlor	97.8	105	97.6	108	7.58	7.81
	Metribuzin	97.1	105	118	133	7.92	12.0
	Mevinphos	104	95.4	129	115	9.08	10.7
	MGK-264	61.5	88.4	90.0	87.7	36.0	2.59
	Mirex	66.0	68.1	67.7	57.8	3.15	15.7
	Molinate	60.7	76.1	74.2	74.0	22.5	0.235
	Myclobutanil	102	103	97.6	104	0.487	6.78
	Naled	26.1	32.6	26.2	30.4	21.9	15.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 8270E	Norflurazon	104	117			11.1		4.24
	Oxadiazon	87.8	92.7			5.47		13.6
	Oxychlordane	76.9	81.4	88.5	81.6	5.64		8.18
	Oxyfluorfen	123	136	133	133	9.83		0.327
	Parathion Ethyl	82.1	91.1	105	98.7	10.4		6.09
	Parathion Methyl	107	98.7	115	111	8.40		3.63
	Pendimethalin	97.9	91.4	108	115	6.87		6.71
	Permethrin	95.6	104	98.4	85.0	8.15		14.6
	Phenothrin	68.8	80.2	81.0	70.2	15.3		14.3
	Phorate	85.9	83.2	80.9	84.1	3.20		3.98
	Piperonyl Butoxide	83.3	97.4	91.8	98.2	15.6		6.70
	Prallethrin	66.5	86.6	91.2	89.8	26.2		1.61
	Prodiamine	63.9	66.4	79.4	85.4	3.80		7.37
	Prometon	91.0	94.9	78.1	95.0	4.21		13.4
	Prometryn	90.7	110	104	105	19.6		1.25
	Pronamide	84.4	101	85.4	92.2	18.1		7.67
	Propiconazole	102	106			4.21		10.5
	Pyriproxyfen	117	127	128	101	8.64		23.3
	Simazine	102	89.8			12.7		4.42
	Sulfentrazone	90.7	105			14.4		9.38
	Tau-Fluvalinate	85.0	98.1	92.2	85.2	14.2		7.95
	Tebuconazole	55.8	73.7	59.8	61.9	27.7		3.15
	Terbufos	104	105	113	112	1.21		0.705
	Terbutylazine	94.1	104	104	101	9.55		2.40
	Tetramethrin	77.3	94.8	119	96.1	20.3		21.2
	Trans-Nonachlor	79.6	91.2	90.9	80.8	13.6		11.7
	Triclosan Methyl	85.0	98.3	101	89.9	14.4		11.2
	Trifluralin	75.2	78.4	80.1	72.0	4.21		10.7
EPA 8276	Chlordane	91.7	91.1	95.8	92.5	0.657		3.52
	Toxaphene	82.2	78.9	78.2	76.5	4.10		2.27
EPA 8321B	2,4-D			114	118			3.34
	2,4,5-T			114	125			9.33
	3-Hydroxycarbofuran			110	115			4.72
	Acesulfame K			112	125			11.0
	Acetaminophen			93.9	137			37.3
	Acetamiprid			83.5	97.2			15.2
	Afidopyropen			66.7	82.2			20.9
	Aldicarb			69.5	70.7			1.65
	Aldicarb Sulfone			106	127			18.1
	Aldicarb Sulfoxide			41.2	52.0			23.1
	AMPA			71.2	68.3			3.46
	Bentazon			104	116			11.2
	Benzovindiflupyr			89.2	97.7			9.08
	Carbamazepine			98.4	118			17.9
	Carbaryl			72.4	84.3			15.2
	Carbofuran			84.1	86.6			2.97
	Clothianidin			108	126			15.1
	Dinotefuran			101	120			17.4
	Diuron			94.0	116			20.6
	Endothall			97.4	106			8.10
	Fenuron			97.4	107			9.73
	Fluridone			88.3	97.4			9.81
	Glufosinate			93.9	92.1			1.91
	Glyphosate			60.8	64.4			4.57

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 8321B	Hydrocodone	92.7	84.2	111		27.2
	Ibuprofen	70.3	98.8	113		13.3
	Imazapyr	78.3	104	137		24.8
	Imidacloprid	85.3	106	135		23.8
	Linuron	79.7	75.3	85.4		12.6
	Mandestrobin	74.0	90.0	104		14.5
	MCPP	79.4	119	128		7.54
	Methiocarb	90.6	75.0	84.7		12.1
	Methomyl	89.8	85.5	92.0		7.29
	Naproxen	83.1	115	115		0.256
	Oxamyl	95.0	94.9	107		12.2
	Primidone	72.6	96.1	109		12.9
	Propoxur	90.1	79.6	85.9		7.58
	Pyraclostrobin	62.7	78.2	91.4		15.5
	Sucralose	122	115	124		7.28
	Thiamethoxam	87.3	109	121		10.7
	Tolfenpyrad	40.6	51.1	51.2		0.144
	Triclopyr	81.8	91.5	113		21.4
SM 2320 B-2011	Total Alkalinity	97.7				1.65
SM 4500 F-C-2011	Fluoride	100				0.953
SM 5310 B-2011	Organic Carbon	95.4	94.0	92.6		0.870

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2280429
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2280441, 2280442, 2280443, 2280444
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2280441, 2280442, 2280443, 2280444
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2280430
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2280430
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2280430
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2280430
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2280431
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2280439
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2280440
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2280439
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2280437
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2280438
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2280429
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2280429
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2280429
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2280430

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	10/05/2021			10/05/2021 20:49	Sarah A Nixon	2280429
EPA 200.7 Rev. 4.4	10/05/2021	10/07/2021 10:45	Emily M Philpot	10/08/2021 17:22	Josef B Mick	2280441
	10/05/2021	10/07/2021 10:45	Emily M Philpot	10/08/2021 17:38	Josef B Mick	2280442
	10/05/2021	10/07/2021 10:45	Emily M Philpot	10/08/2021 18:25	Josef B Mick	2280443
	10/05/2021	10/07/2021 10:45	Emily M Philpot	10/08/2021 18:41	Josef B Mick	2280444
EPA 200.8 Rev. 5.4	10/05/2021	10/07/2021 10:45	Emily M Philpot	10/08/2021 17:22	Alexander Thompson	2280441
	10/05/2021	10/07/2021 10:45	Emily M Philpot	10/08/2021 17:32	Alexander Thompson	2280442
	10/05/2021	10/07/2021 10:45	Emily M Philpot	10/08/2021 17:42	Alexander Thompson	2280443
	10/05/2021	10/07/2021 10:45	Emily M Philpot	10/08/2021 17:51	Alexander Thompson	2280444
EPA 350.1 Rev. 2.0	10/05/2021			10/11/2021 14:44	Ping Hua	2280430
EPA 351.2 Rev. 2.0	10/05/2021	10/11/2021 14:45	Benjamin T. Nordmann	10/13/2021 09:29	Alexandra J Mattheus	2280430
EPA 353.2 Rev. 2.0	10/05/2021			10/08/2021 10:48	Beverly Y. Sanders	2280430
EPA 365.1 Rev. 2.0	10/05/2021	10/07/2021 15:09	Simonne.V. Calhoun	10/08/2021 11:08	Lipi Saha	2280430
EPA 365.1 Rev. 2.0 dissolved	10/05/2021			10/05/2021 14:41	James L Waggeberby	2280431
EPA 8270E	10/05/2021	10/11/2021 07:00	Fe-Val Siddell	10/13/2021 00:51	Arthur Maknenko	2280439
	10/05/2021	10/11/2021 08:15	Rasheda Ghaffari	10/12/2021 16:01	Michael Poppell	2280440
	10/05/2021	10/11/2021 08:15	Rasheda Ghaffari	10/14/2021 19:32	Michael Poppell	2280440
	10/05/2021	10/11/2021 08:15	Rasheda Ghaffari	10/14/2021 20:47	Michael Poppell	2280440
EPA 8276	10/05/2021	10/11/2021 07:00	Fe-Val Siddell	10/13/2021 10:30	Michael Poppell	2280439
EPA 8321B	10/05/2021	10/05/2021 14:00	Hoor Shaik	10/10/2021 00:44	Juyoung Kim	2280438
	10/05/2021	10/07/2021 09:00	Juyoung Kim	10/07/2021 13:00	Juyoung Kim	2280438
	10/05/2021	10/07/2021 09:00	Juyoung Kim	10/08/2021 18:22	Manjita Shrestha	2280438
	10/05/2021	10/11/2021 13:00	Hoor Shaik	10/11/2021 17:29	Juyoung Kim	2280437
SM 2320 B-2011	10/05/2021			10/08/2021 19:57	Dale L. Simmons	2280429
SM 2540 D-2011	10/05/2021			10/07/2021 14:19	Yijie Li	2280429
SM 4500 F-C-2011	10/05/2021			10/08/2021 19:57	Dale L. Simmons	2280429
SM 5310 B-2011	10/05/2021			10/09/2021 00:37	Khloe J Berg	2280430