

Chemical Analysis Report

SO-DIST-2022-07-29-01

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

Event Description: **2022 SMP : Everglades**

Request ID: **RQ-2022-07-25-31**

Customer: **SO-DIST**

Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901-3381
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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 22-AUG-2022 15:43



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: 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: 8069 - ENRE5

Collection Date/Time: 07/27/2022 11:10

Field ID: G5SD0036

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2344483	EPA 180.1 Rev. 2.0	Turbidity	5.3	A	NTU	P417429	
	SM 2320 B-2011	Total Alkalinity	119		mg CaCO3/L	P417533	
	SM 2540 D-2011	TSS	4	I	mg/L	P417807	
	SM 4500-F- C-2011	Fluoride	1.3		mg F/L	P417535	
2344485	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P417420	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.35	I	mg N/L	P417399	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	I	mg N/L	P417456	
	EPA 365.1 Rev. 2.0	Total-P	0.024		mg P/L	P417598	
	SM 5310 B-2011	Organic Carbon	3.2	I	mg C/L	P417494	
2344493	EPA 8270E	Oxybenzone**	9.6	U	ng/L	P417335	
		Acetochlor	0.24	U	ng/L	P417335	
		Octinoxate**	19	U	ng/L	P417335	
		Alachlor	0.24	U	ng/L	P417335	
		Avobenzone**	96	U	ng/L	P417335	
		Ametryn	0.57	U	ng/L	P417335	
		Atrazine	2.1		ng/L	P417335	
		PBDE-47**	3.8	U	ng/L	P417335	
		Atrazine Desethyl	1.4	U	ng/L	P417335	
		PBDE-99**	4.8	U	ng/L	P417335	
		Azinphos Methyl	1.9	U	ng/L	P417335	
		Tri-o-cresyl Phosphate**	5.7	U	ng/L	P417335	
		Azoxystrobin	0.48	U	ng/L	P417335	
		Bromacil	0.48	U	ng/L	P417335	
		2-Ethylhexyl	11	U	ng/L	P417335	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.38	U	ng/L	P417335	
		Caffeine**	10	I	ng/L	P417335	
		Carbophenothion	0.19	U	ng/L	P417335	
		Carfentrazone Ethyl	0.096	U	ng/L	P417335	
		Chlorfenapyr	0.17	U	ng/L	P417335	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P417335	
		Chlorpyrifos Methyl	0.048	U	ng/L	P417335	
		Coumaphos	0.48	U	ng/L	P417335	
		Cyanazine	3.1	U	ng/L	P417335	
		Cyprodinil	0.096	U	ng/L	P417335	
		Demeton	1.4	U	ng/L	P417335	
		Diazinon	0.12	U	ng/L	P417335	
		Difenoconazole	0.57	U	ng/L	P417335	
		Dimethenamid	0.096	U	ng/L	P417335	
		Dimethomorph	0.17	U	ng/L	P417335	
		Disulfoton	0.48	U	ng/L	P417335	
		Dithiopyr	0.17	U	ng/L	P417335	
		EPTC	1.2	U	ng/L	P417335	
		Ethion	0.14	U	ng/L	P417335	

Field ID: G5SD0036

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2344493	EPA 8270E	Ethoprop	0.096	U	ng/L	P417335	
		Etridiazole	0.14	U	ng/L	P417335	
		Fenamiphos	0.48	U	ng/L	P417335	
		Fenbuconazole	0.12	U	ng/L	P417335	
		Fipronil	0.24	U	ng/L	P417335	
		Fipronil Desulfinyl**	0.12	U	ng/L	P417335	
		Fipronil Sulfide	0.14	U	ng/L	P417335	
		Fipronil Sulfone	0.14	U	ng/L	P417335	
		Fluazifop-P-butyl	0.096	U	ng/L	P417335	
		Fludioxonil	0.12	U	ng/L	P417335	
		Flumioxazin	1.7	U	ng/L	P417335	
		Flutolanil	0.096	U	ng/L	P417335	
		Fluxapyroxad	0.16	I	ng/L	P417335	
		Fonofos	0.19	U	ng/L	P417335	
		Hexazinone	1.0	I	ng/L	P417335	
		Imazalil	0.72	U	ng/L	P417335	
		Iprodione	0.57	U	ng/L	P417335	
		Loratadine**	0.096	U	ng/L	P417335	
		Malathion	0.34	U	ng/L	P417335	
		Metalaxyl	0.72	U	ng/L	P417335	
		Metolachlor	0.34	U	ng/L	P417335	
		Metribuzin	2.4	U	ng/L	P417335	
		Mevinphos	1.0	U	ng/L	P417335	
		Molinate	0.29	U	ng/L	P417335	
		Myclobutanil	0.24	U	ng/L	P417335	
		Naled	1.4	U	ng/L	P417335	
		Napropamide	0.38	U	ng/L	P417335	
		Norflurazon	0.48	U	ng/L	P417335	
		Oxadiazon	0.29	U	ng/L	P417335	
		Oxyfluorfen	0.14	U	ng/L	P417335	
		Parathion Ethyl	0.24	UJ	ng/L	P417335	LCS
		Parathion Methyl	0.53	UJ	ng/L	P417335	LCS
		Pendimethalin	0.96	UJ	ng/L	P417335	LCS
		Phenytion**	3.4	U	ng/L	P417335	MS, RPD
		Phorate	0.50	U	ng/L	P417335	
		Prodiamine	0.17	U	ng/L	P417335	
		Prometon	0.86	U	ng/L	P417335	
		Prometryn	0.19	U	ng/L	P417335	
		Pronamide	0.14	UJ	ng/L	P417335	LCS
		Propanil	0.12	U	ng/L	P417335	
		Propargite	1.4	U	ng/L	P417335	RPD
		Propiconazole	0.48	U	ng/L	P417335	
		Pyraflufen Ethyl	0.24	U	ng/L	P417335	
		Pyridaben	0.43	U	ng/L	P417335	
		Pyriproxyfen	0.12	U	ng/L	P417335	

Field ID: G5SD0036

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2344493	EPA 8270E	Simazine	0.48	U	ng/L	P417335	
		Stirophos	0.12	U	ng/L	P417335	
		Sulfentrazone	0.48	U	ng/L	P417335	
		Tebuconazole	0.48	U	ng/L	P417335	
		Terbufos	0.096	UJ	ng/L	P417335	LCS
		Terbuthylazine	0.41	U	ng/L	P417335	
		Thiobencarb	0.57	U	ng/L	P417335	
		Triadimefon	0.24	U	ng/L	P417335	

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: 8067 ENRE 9 Near First Bay

Collection Date/Time: 07/27/2022 12:10

Field ID: G5SD0107

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2344484	EPA 180.1 Rev. 2.0	Turbidity	1.1		NTU	P417429	
	SM 2320 B-2011	Total Alkalinity	130		mg CaCO3/L	P417533	
	SM 2540 D-2011	TSS	3	U	mg/L	P417807	
	SM 4500-F- C-2011	Fluoride	1.1		mg F/L	P417535	
2344486	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P417420	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.55		mg N/L	P417399	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P417456	
	EPA 365.1 Rev. 2.0	Total-P	0.015		mg P/L	P417598	
	SM 5310 B-2011	Organic Carbon	6.2		mg C/L	P417603	
2344494	EPA 8270E	Oxybenzone**	9.4	U	ng/L	P417335	
		Acetochlor	0.24	U	ng/L	P417335	
		Octinoxate**	19	U	ng/L	P417335	
		Alachlor	0.24	U	ng/L	P417335	
		Avobenzone**	94	U	ng/L	P417335	
		Ametryn	0.56	U	ng/L	P417335	
		Atrazine	1.9		ng/L	P417335	
		PBDE-47**	3.8	U	ng/L	P417335	
		Atrazine Desethyl	1.4	U	ng/L	P417335	
		PBDE-99**	4.7	U	ng/L	P417335	
		Azinphos Methyl	1.9	U	ng/L	P417335	
		Tri-o-cresyl Phosphate**	5.6	U	ng/L	P417335	
		Azoxystrobin	0.47	U	ng/L	P417335	
		Bromacil	0.47	U	ng/L	P417335	
		2-Ethylhexyl	11	U	ng/L	P417335	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.38	U	ng/L	P417335	
		Caffeine**	9.0	I	ng/L	P417335	
		Carbophenothion	0.19	U	ng/L	P417335	
		Carfentrazone Ethyl	0.094	U	ng/L	P417335	
		Chlorfenapyr	0.16	U	ng/L	P417335	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P417335	
		Chlorpyrifos Methyl	0.047	U	ng/L	P417335	
		Coumaphos	0.47	U	ng/L	P417335	
		Cyanazine	3.1	U	ng/L	P417335	
		Cyprodinil	0.094	U	ng/L	P417335	
		Demeton	1.4	U	ng/L	P417335	
		Diazinon	0.12	U	ng/L	P417335	
		Difenoconazole	0.56	U	ng/L	P417335	
		Dimethenamid	0.094	U	ng/L	P417335	
		Dimethomorph	0.16	U	ng/L	P417335	
		Disulfoton	0.47	U	ng/L	P417335	
		Dithiopyr	0.16	U	ng/L	P417335	
		EPTC	1.2	U	ng/L	P417335	
		Ethion	0.14	U	ng/L	P417335	

Field ID: G5SD0107

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2344494	EPA 8270E	Ethoprop	0.094	U	ng/L	P417335	
		Etridiazole	0.14	U	ng/L	P417335	
		Fenamiphos	0.47	U	ng/L	P417335	
		Fenbuconazole	0.12	U	ng/L	P417335	
		Fipronil	0.24	U	ng/L	P417335	
		Fipronil Desulfinyl**	0.12	U	ng/L	P417335	
		Fipronil Sulfide	0.14	U	ng/L	P417335	
		Fipronil Sulfone	0.14	U	ng/L	P417335	
		Fluazifop-P-butyl	0.094	U	ng/L	P417335	
		Fludioxonil	0.12	U	ng/L	P417335	
		Flumioxazin	1.6	U	ng/L	P417335	
		Flutolanil	0.094	U	ng/L	P417335	
		Fluxapyroxad	0.094	U	ng/L	P417335	
		Fonofos	0.19	U	ng/L	P417335	
		Hexazinone	1.0	I	ng/L	P417335	
		Imazalil	0.71	U	ng/L	P417335	
		Iprodione	0.56	U	ng/L	P417335	
		Loratadine**	0.094	U	ng/L	P417335	
		Malathion	0.33	U	ng/L	P417335	
		Metalaxyl	0.71	U	ng/L	P417335	
		Metolachlor	0.33	U	ng/L	P417335	
		Metribuzin	2.4	U	ng/L	P417335	
		Mevinphos	0.99	U	ng/L	P417335	
		Molinate	0.28	U	ng/L	P417335	
		Myclobutanil	0.24	U	ng/L	P417335	
		Naled	1.4	U	ng/L	P417335	
		Napropamide	0.38	U	ng/L	P417335	
		Norflurazon	0.47	U	ng/L	P417335	
		Oxadiazon	0.28	U	ng/L	P417335	
		Oxyfluorfen	0.14	U	ng/L	P417335	
		Parathion Ethyl	0.24	UJ	ng/L	P417335	LCS
		Parathion Methyl	0.52	UJ	ng/L	P417335	LCS
		Pendimethalin	0.94	UJ	ng/L	P417335	LCS
		Phenytol**	3.3	U	ng/L	P417335	MS, RPD
		Phorate	0.49	U	ng/L	P417335	
		Prodiamine	0.16	U	ng/L	P417335	
		Prometon	0.85	U	ng/L	P417335	
		Prometryn	0.19	U	ng/L	P417335	
		Pronamide	0.14	UJ	ng/L	P417335	LCS
		Propanil	0.12	U	ng/L	P417335	
		Propargite	1.4	U	ng/L	P417335	RPD
		Propiconazole	0.47	U	ng/L	P417335	
		Pyraflufen Ethyl	0.24	U	ng/L	P417335	
		Pyridaben	0.42	U	ng/L	P417335	
		Pyriproxyfen	0.12	U	ng/L	P417335	

Field ID: G5SD0107

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2344494	EPA 8270E	Simazine	0.47	U	ng/L	P417335	LCS
		Stirophos	0.12	U	ng/L	P417335	
		Sulfentrazone	0.47	U	ng/L	P417335	
		Tebuconazole	0.47	U	ng/L	P417335	
		Terbufos	0.094	UJ	ng/L	P417335	
		Terbuthylazine	0.40	U	ng/L	P417335	
		Thiobencarb	0.56	U	ng/L	P417335	
		Triadimefon	0.24	U	ng/L	P417335	

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.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P417429

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417420

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417399

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417456

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417598

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

Reference Method: EPA 8270E
Batch ID: P417335

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P417335

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P417335

Component	Result	Code	Units
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
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: P417335

Component	Result	Code	Units
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	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
Pronatone	0.15	U	ng/L
Pronatone	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
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P417533

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 D-2011
Batch ID: P417807

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P417535

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P417494

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

Reference Method: SM 5310 B-2011
Batch ID: P417603

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: P417429

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	96.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P417420

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	91.0		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P417399

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: P417456

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P417598

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

Reference Method: EPA 8270E
 Batch ID: P417335

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.2		P	50 - 150
Acetochlor	120		P	70 - 121
Alachlor	113		P	68 - 119
Ametryn	114		P	64 - 139
Atrazine	114		P	76 - 120
Atrazine Desethyl	94.7		P	44 - 126
Avobenzone	105		P	59 - 206
Azinphos Methyl	143		P	43 - 192
Azoxystrobin	152		P	36 - 224
Bromacil	97.1		P	52 - 121
Butylate	72.2		P	28 - 91.0
Caffeine	73.7		P	50 - 134
Carbophenothion	119		P	56 - 129
Carfentrazone Ethyl	129		P	60 - 141
Chlorfenapyr	109		P	56 - 115
Chlorpyrifos Ethyl	110		P	60 - 118
Chlorpyrifos Methyl	119		P	68 - 119
Coumaphos	129		P	18 - 250
Cyanazine	112		P	61 - 250
Cyprodinil	120		P	55 - 145
Demeton	111		P	30 - 159
Diazinon	123		P	70 - 123

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P417335

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Difenoconazole	145		P	49 - 204
Dimethenamid	101		P	64 - 115
Dimethomorph	175		P	12 - 219
Disulfoton	113		P	44 - 125
Dithiopyr	100		P	64 - 115
EPTC	60.1		P	28 - 86.0
Ethion	75.6		P	33 - 125
Ethoprop	113		P	64 - 116
Etridiazole	75.9		P	34 - 91.0
Fenamiphos	113		P	12 - 127
Fenbuconazole	117		P	59 - 151
Fipronil	118		P	67 - 129
Fipronil Desulfinyl	123		P	65 - 127
Fipronil Sulfide	102		P	61 - 116
Fipronil Sulfone	117		P	55 - 117
Fluazifop-P-butyl	124		P	62 - 127
Fludioxonil	112		P	62 - 128
Flumioxazin	173		P	33 - 250
Flutolanil	110		P	56 - 127
Fluxapyroxad	105		P	45 - 128
Fonofos	110		P	62 - 111
Hexazinone	116		P	46 - 139
Imazalil	110		P	38 - 142
Iprodione	123		P	47 - 135
Loratadine	168		P	10 - 244
Malathion	120		P	61 - 139
Metalaxyl	114		P	10 - 119
Metolachlor	111		P	65 - 118
Metribuzin	130		P	51 - 250
Mevinphos	109		P	53 - 121
Molinate	78.8		P	42 - 96.0
Myclobutanil	112		P	55 - 128
Naled	80.5		P	10 - 98.0
Napropamide	102		P	49 - 121
Norflurazon	109		P	61 - 126
Octinoxate	99.0		P	25 - 150
Oxadiazon	96.7		P	59 - 116
Oxybenzone	86.7		P	59 - 147
Oxyfluorfen	136		P	64 - 137
Parathion Ethyl	118		F	70 - 112
Parathion Methyl	150		F	76 - 133
PBDE-47	90.8		P	50 - 150
PBDE-99	87.6		P	50 - 150
Pendimethalin	123		F	52 - 117
Phenytol	44.5		P	10 - 199
Phorate	111		P	48 - 121
Prodiamine	55.8		P	26 - 142
Prometon	84.6		P	43 - 123
Prometryn	109		P	66 - 127
Pronamide	129		F	75 - 121
Propanil	116		P	45 - 150
Propargite	75.2		P	42 - 208

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P417335

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Propiconazole	102		P	60 - 125
Pyraflufen Ethyl	111		P	70 - 138
Pyridaben	112		P	35 - 245
Pyriproxyfen	103		P	30 - 149
Simazine	120		P	72 - 125
Stirophos	84.2		P	29 - 164
Sulfentrazone	126		P	21 - 139
Tebuconazole	61.9		P	10 - 115
Terbufos	130		F	60 - 123
Terbuthylazine	108		P	72 - 115
Thiobencarb	99.9		P	31 - 139
Tri-o-cresyl Phosphate	99.3		P	50 - 150
Triadimefon	103		P	65 - 116

Reference Method: SM 2320 B-2011

Batch ID: P417533

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	100		P	94 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P417535

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

Reference Method: SM 5310 B-2011

Batch ID: P417494

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

Reference Method: SM 5310 B-2011

Batch ID: P417603

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417420

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344026	Ammonia-N	100	99.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417399

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344327	Kjeldahl Nitrogen	104	112	P/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417456

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344327	NO2NO3-N	101	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417598

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344486	Total-P	96.5	92.1	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P417335

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344105	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	106	100	P/P	50 - 150
2344105	Acetochlor	77.1	76.0	P/P	65 - 124
2344105	Alachlor	92.8	90.7	P/P	61 - 121
2344105	Ametryn	92.3	90.0	P/P	52 - 216
2344105	Atrazine Desethyl	59.9	67.2	P/P	15 - 160
2344105	Avobenzone	93.1	96.6	P/P	59 - 206
2344105	Azinphos Methyl	118	123	P/P	40 - 292
2344105	Azoxystrobin	92.5	102	P/P	12 - 242
2344105	Bromacil	75.5	81.0	P/P	54 - 167
2344105	Butylate	57.9	61.2	P/P	14 - 94.0
2344105	Caffeine	93.3	85.8	P/P	10 - 226
2344105	Carbophenothion	97.4	95.9	P/P	49 - 122
2344105	Carfentrazone Ethyl	105	107	P/P	53 - 138
2344105	Chlorfenapyr	101	96.3	P/P	50 - 150
2344105	Chlorpyrifos Ethyl	89.2	90.2	P/P	52 - 122
2344105	Chlorpyrifos Methyl	105	101	P/P	66 - 117
2344105	Coumaphos	113	107	P/P	50 - 220
2344105	Cyanazine	88.9	87.5	P/P	43 - 245
2344105	Cyprodinil	89.5	86.4	P/P	50 - 150
2344105	Demeton	91.5	93.4	P/P	43 - 188
2344105	Diazinon	99.2	97.6	P/P	69 - 131
2344105	Difenoconazole	131	119	P/P	34 - 231
2344105	Dimethenamid	80.8	75.2	P/P	55 - 118
2344105	Dimethomorph	95.2	116	P/P	50 - 150
2344105	Disulfoton	91.7	87.0	P/P	38 - 141
2344105	Dithiopyr	82.7	86.2	P/P	42 - 116
2344105	EPTC	51.1	52.4	P/P	18 - 85.0
2344105	Ethion	103	78.3	P/P	10 - 131

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P417335

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344105	Ethoprop	97.9	97.5	P/P	65 - 129
2344105	Etridiazole	59.0	57.0	P/P	50 - 150
2344105	Fenamiphos	83.3	102	P/P	31 - 137
2344105	Fenbuconazole	103	98.1	P/P	57 - 160
2344105	Fipronil	95.0	93.8	P/P	62 - 132
2344105	Fipronil Desulfinyl	102	103	P/P	57 - 131
2344105	Fipronil Sulfide	93.9	91.8	P/P	15 - 138
2344105	Fipronil Sulfone	86.4	81.6	P/P	21 - 134
2344105	Fluazifop-P-butyl	98.6	97.7	P/P	54 - 133
2344105	Fludioxonil	87.4	86.4	P/P	58 - 127
2344105	Flumioxazin	153	138	P/P	33 - 300
2344105	Flutolanil	90.1	83.6	P/P	42 - 130
2344105	Fluxapyroxad	86.1	81.5	P/P	23 - 141
2344105	Fonofos	89.2	91.8	P/P	58 - 119
2344105	Hexazinone	99.3	100	P/P	68 - 172
2344105	Imazalil	82.9	72.0	P/P	48 - 283
2344105	Iprodione	104	99.5	P/P	38 - 140
2344105	Loratadine	93.8	117	P/P	50 - 150
2344105	Malathion	100	108	P/P	40 - 137
2344105	Metalaxyl	95.3	88.5	P/P	21 - 129
2344105	Metribuzin	100	115	P/P	38 - 187
2344105	Mevinphos	98.6	100	P/P	54 - 134
2344105	Molinate	68.6	75.2	P/P	41 - 97.0
2344105	Myclobutanil	89.3	87.1	P/P	56 - 125
2344105	Naled	96.1	98.1	P/P	10 - 108
2344105	Napropamide	86.1	83.2	P/P	50 - 150
2344105	Norflurazon	89.8	83.2	P/P	32 - 122
2344105	Octinoxate	99.1	102	P/P	25 - 150
2344105	Oxadiazon	78.6	72.6	P/P	40 - 119
2344105	Oxybenzone	92.0	97.8	P/P	59 - 147
2344105	Oxyfluorfen	127	112	P/P	61 - 153
2344105	Parathion Ethyl	102	104	P/P	59 - 130
2344105	Parathion Methyl	129	119	P/P	65 - 155
2344105	PBDE-47	100	93.0	P/P	50 - 150
2344105	PBDE-99	99.2	90.8	P/P	50 - 150
2344105	Pendimethalin	110	104	P/P	49 - 138
2344105	Phenytoin	66.2	35.0	P/F	50 - 200
2344105	Phorate	88.3	95.3	P/P	54 - 161
2344105	Prodiamine	44.4	54.8	P/P	33 - 161
2344105	Prometon	75.8	73.2	P/P	48 - 140
2344105	Prometryn	90.5	86.6	P/P	55 - 134
2344105	Pronamide	104	96.1	P/P	66 - 137
2344105	Propanil	91.1	86.4	P/P	50 - 150
2344105	Propargite	92.1	56.0	P/P	50 - 200
2344105	Propiconazole	97.4	90.4	P/P	36 - 150
2344105	Pyraflufen Ethyl	89.4	88.2	P/P	50 - 150
2344105	Pyridaben	97.8	88.2	P/P	50 - 200
2344105	Pyriproxyfen	90.9	81.5	P/P	10 - 165
2344105	Simazine	93.2	104	P/P	57 - 145
2344105	Stirophos	97.0	74.1	P/P	50 - 150
2344105	Sulfentrazone	97.4	98.9	P/P	34 - 140
2344105	Tebuconazole	79.2	51.8	P/P	10 - 127

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P417335

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344105	Terbufos	110	110	P/P	59 - 138
2344105	Terbutylazine	94.3	98.2	P/P	68 - 119
2344105	Thiobencarb	76.6	82.6	P/P	50 - 150
2344105	Tri-o-cresyl Phosphate	95.5	95.2	P/P	50 - 150
2344105	Triadimefon	83.6	85.5	P/P	50 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P417535

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2343760	Fluoride	101	98.8	P/P	94 - 104

Reference Method: SM 5310 B-2011

Batch ID: P417494

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344316	Organic Carbon	89.8	91.3	P/P	85 - 115

Reference Method: SM 5310 B-2011

Batch ID: P417603

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344486	Organic Carbon	88.1	90.7	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P417429

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344483	Turbidity	8.15	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417420

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344026	Ammonia-N	0.116	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417399

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344327	Kjeldahl Nitrogen	6.49	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417456

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344327	NO2NO3-N	1.47	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417598

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344486	Total-P	4.56	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P417335

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344105	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	5.11	Spike	P	0 - 30
2344105	Acetochlor	0.638	Spike	P	0 - 27
2344105	Alachlor	2.33	Spike	P	0 - 27
2344105	Ametryn	2.56	Spike	P	0 - 34
2344105	Atrazine	1.10	Spike	P	0 - 41
2344105	Atrazine Desethyl	9.17	Spike	P	0 - 38
2344105	Avobenzene	3.70	Spike	P	0 - 30
2344105	Azinphos Methyl	3.57	Spike	P	0 - 62
2344105	Azoxystrobin	5.45	Spike	P	0 - 32
2344105	Bromacil	7.03	Spike	P	0 - 30
2344105	Butylate	5.60	Spike	P	0 - 59
2344105	Caffeine	8.20	Spike	P	0 - 60
2344105	Carbophenothion	1.55	Spike	P	0 - 25
2344105	Carfentrazone Ethyl	2.03	Spike	P	0 - 26
2344105	Chlorfenapyr	4.46	Spike	P	0 - 30
2344105	Chlorpyrifos Ethyl	1.20	Spike	P	0 - 27

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P417335

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344105	Chlorpyrifos Methyl	3.37	Spike	P	0 - 26
2344105	Coumaphos	5.35	Spike	P	0 - 30
2344105	Cyanazine	1.57	Spike	P	0 - 58
2344105	Cyprodinil	3.31	Spike	P	0 - 30
2344105	Demeton	2.01	Spike	P	0 - 25
2344105	Diazinon	1.67	Spike	P	0 - 29
2344105	Difenoconazole	9.37	Spike	P	0 - 25
2344105	Dimethenamid	6.69	Spike	P	0 - 30
2344105	Dimethomorph	20.1	Spike	P	0 - 30
2344105	Disulfoton	5.28	Spike	P	0 - 33
2344105	Dithiopyr	4.16	Spike	P	0 - 22
2344105	EPTC	2.54	Spike	P	0 - 38
2344105	Ethion	27.1	Spike	P	0 - 79
2344105	Ethoprop	0.370	Spike	P	0 - 23
2344105	Etridiazole	3.54	Spike	P	0 - 30
2344105	Fenamiphos	19.9	Spike	P	0 - 58
2344105	Fenbuconazole	4.72	Spike	P	0 - 37
2344105	Fipronil	1.37	Spike	P	0 - 33
2344105	Fipronil Desulfanyl	0.325	Spike	P	0 - 26
2344105	Fipronil Sulfide	2.33	Spike	P	0 - 37
2344105	Fipronil Sulfone	5.69	Spike	P	0 - 50
2344105	Fluazifop-P-butyl	0.919	Spike	P	0 - 24
2344105	Fludioxonil	1.23	Spike	P	0 - 26
2344105	Flumioxazin	9.75	Spike	P	0 - 37
2344105	Flutolanil	6.51	Spike	P	0 - 26
2344105	Fluxapyroxad	4.63	Spike	P	0 - 34
2344105	Fonofos	2.94	Spike	P	0 - 27
2344105	Hexazinone	1.14	Spike	P	0 - 36
2344105	Imazalil	14.1	Spike	P	0 - 65
2344105	Iprodione	4.50	Spike	P	0 - 33
2344105	Loratadine	21.8	Spike	P	0 - 30
2344105	Malathion	7.10	Spike	P	0 - 44
2344105	Metalaxyl	7.41	Spike	P	0 - 38
2344105	Metolachlor	2.17	Spike	P	0 - 36
2344105	Metribuzin	13.6	Spike	P	0 - 63
2344105	Mevinphos	1.60	Spike	P	0 - 26
2344105	Molinate	9.20	Spike	P	0 - 40
2344105	Myclobutanil	2.51	Spike	P	0 - 21
2344105	Naled	1.99	Spike	P	0 - 26
2344105	Napropamide	3.44	Spike	P	0 - 30
2344105	Norflurazon	7.30	Spike	P	0 - 24
2344105	Octinoxate	2.84	Spike	P	0 - 30
2344105	Oxadiazon	7.94	Spike	P	0 - 27
2344105	Oxybenzone	6.08	Spike	P	0 - 30
2344105	Oxyfluorfen	12.1	Spike	P	0 - 24
2344105	Parathion Ethyl	2.35	Spike	P	0 - 28
2344105	Parathion Methyl	8.00	Spike	P	0 - 27
2344105	PBDE-47	7.52	Spike	P	0 - 30
2344105	PBDE-99	8.75	Spike	P	0 - 30
2344105	Pendimethalin	5.62	Spike	P	0 - 31
2344105	Phenytoin	61.6	Spike	F	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P417335

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344105	Phorate	7.58	Spike	P	0 - 27
2344105	Prodiamine	21.0	Spike	P	0 - 52
2344105	Prometon	3.56	Spike	P	0 - 31
2344105	Prometryn	4.40	Spike	P	0 - 28
2344105	Pronamide	7.61	Spike	P	0 - 26
2344105	Propanil	5.20	Spike	P	0 - 30
2344105	Propargite	48.8	Spike	F	0 - 30
2344105	Propiconazole	7.45	Spike	P	0 - 31
2344105	Pyraflufen Ethyl	1.32	Spike	P	0 - 30
2344105	Pyridaben	10.3	Spike	P	0 - 30
2344105	Pyriproxyfen	10.9	Spike	P	0 - 50
2344105	Simazine	10.5	Spike	P	0 - 29
2344105	Stirophos	26.8	Spike	P	0 - 30
2344105	Sulfentrazone	1.53	Spike	P	0 - 33
2344105	Tebuconazole	34.1	Spike	P	0 - 44
2344105	Terbufos	0.424	Spike	P	0 - 29
2344105	Terbuthylazine	4.01	Spike	P	0 - 27
2344105	Thiobencarb	7.51	Spike	P	0 - 30
2344105	Tri-o-cresyl Phosphate	0.324	Spike	P	0 - 30
2344105	Triadimefon	2.22	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P417533

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343760	Total Alkalinity	0.223	Sample	P	0 - 3.8

Reference Method: SM 4500-F- C-2011

Batch ID: P417535

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343760	Fluoride	1.43	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011

Batch ID: P417494

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344316	Organic Carbon	1.20	Spike	P	0 - 20

Reference Method: SM 5310 B-2011

Batch ID: P417603

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344486	Organic Carbon	2.73	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2344493
Field Sample ID: G5SD0036

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	89.5	P	20 - 200
EPA 8270E	Simazine-d10	123	P	71 - 140
EPA 8270E	Terbufos-d10	106	P	62 - 131
EPA 8270E	Terphenyl-d14	99.1	P	52 - 141

Lab Sample ID: 2344494
Field Sample ID: G5SD0107

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	82.8	P	20 - 200
EPA 8270E	Simazine-d10	117	P	71 - 140
EPA 8270E	Terbufos-d10	109	P	62 - 131
EPA 8270E	Terphenyl-d14	111	P	52 - 141

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A113803

Included Lab Sample IDs: 2344485, 2344486

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.3	98.8	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A113809

Included Lab Sample IDs: 2344483, 2344484

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A113819

Included Lab Sample IDs: 2344485, 2344486

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

Reference Method: SM 5310 B-2011

Run ID: A113849

Included Lab Sample IDs: 2344485

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	90.8	95.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A113857

Included Lab Sample IDs: 2344485, 2344486

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

Reference Method: SM 2320 B-2011

Run ID: A113862

Included Lab Sample IDs: 2344483, 2344484

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.3	97.2	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A113862

Included Lab Sample IDs: 2344483, 2344484

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

Reference Method: SM 5310 B-2011

Run ID: A113884

Included Lab Sample IDs: 2344486

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.4	92.6	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A113911

Included Lab Sample IDs: 2344485, 2344486

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

Reference Method: EPA 8270E

Run ID: A113983

Included Lab Sample IDs: 2344493, 2344494

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.6		P	80 - 120
Avobenzone	97.4		P	80 - 120
Octinoxate	95.8		P	80 - 120
Oxybenzone	91.2		P	80 - 120
PBDE-47	96.2		P	80 - 120
PBDE-99	98.7		P	80 - 120
Tri-o-cresyl Phosphate	96.9		P	80 - 120

Reference Method: EPA 8270E

Run ID: A114019

Included Lab Sample IDs: 2344493

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	95.3		P	80 - 120
Alachlor	97.5		P	80 - 120
Ametryn	102		P	80 - 120
Atrazine	95.1		P	80 - 120
Atrazine Desethyl	99.4		P	80 - 120
Azinphos Methyl	95.6		P	80 - 120
Azoxystrobin	98.6		P	80 - 120
Bromacil	96.8		P	80 - 120
Butylate	105		P	80 - 120
Caffeine	95.9		P	80 - 120
Carbophenothion	99.6		P	80 - 120
Carfentrazone Ethyl	99.0		P	80 - 120
Chlorfenapyr	102		P	80 - 120
Chlorpyrifos Ethyl	98.2		P	80 - 120
Chlorpyrifos Methyl	103		P	80 - 120
Coumaphos	99.2		P	80 - 120
Cyanazine	94.7		P	80 - 120
Cyprodinil	100		P	80 - 120
Demeton	101		P	80 - 120
Diazinon	98.6		P	80 - 120
Difenoconazole	101		P	80 - 120
Dimethenamid	96.7		P	80 - 120
Dimethomorph	101		P	80 - 120
Disulfoton	94.8		P	80 - 120
Dithiopyr	96.5		P	80 - 120
EPTC	99.6		P	80 - 120
Ethion	101		P	80 - 120
Ethoprop	98.8		P	80 - 120
Etridiazole	98.3		P	80 - 120
Fenamiphos	102		P	80 - 120
Fenbuconazole	99.5		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A114019
Included Lab Sample IDs: 2344493

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fipronil	99.1		P	80 - 120
Fipronil Desulfinyl	97.4		P	80 - 120
Fipronil Sulfide	99.9		P	80 - 120
Fipronil Sulfone	103		P	80 - 120
Fluazifop-P-butyl	100		P	80 - 120
Fludioxonil	90.4		P	80 - 120
Flumioxazin	103		P	80 - 120
Flutolanil	99.9		P	80 - 120
Fluxapyroxad	96.5		P	80 - 120
Fonofos	98.9		P	80 - 120
Hexazinone	94.9		P	80 - 120
Imazalil	99.9		P	80 - 120
Iprodione	98.2		P	80 - 120
Loratadine	105		P	80 - 120
Malathion	98.0		P	80 - 120
Metalaxyl	95.4		P	80 - 120
Metolachlor	99.2		P	80 - 120
Metribuzin	106		P	80 - 120
Mevinphos	100		P	80 - 120
Molinate	102		P	80 - 120
Myclobutanil	97.0		P	80 - 120
Naled	102		P	80 - 120
Napropamide	98.7		P	80 - 120
Norflurazon	99.7		P	80 - 120
Oxadiazon	96.2		P	80 - 120
Oxyfluorfen	95.4		P	80 - 120
Parathion Ethyl	103		P	80 - 120
Parathion Methyl	99.2		P	80 - 120
Pendimethalin	98.6		P	80 - 120
Phenytoin	93.9		P	80 - 120
Phorate	99.4		P	80 - 120
Prodiamine	101		P	80 - 120
Prometon	96.6		P	80 - 120
Prometryn	103		P	80 - 120
Pronamide	89.9		P	80 - 120
Propanil	97.4		P	80 - 120
Propargite	96.3		P	80 - 120
Propiconazole	101		P	80 - 120
Pyraflufen Ethyl	105		P	80 - 120
Pyridaben	97.2		P	80 - 120
Pyriproxyfen	95.3		P	80 - 120
Simazine	97.4		P	80 - 120
Stirophos	107		P	80 - 120
Sulfentrazone	97.4		P	80 - 120
Tebuconazole	95.6		P	80 - 120
Terbufos	96.8		P	80 - 120
Terbuthylazine	99.9		P	80 - 120
Thiobencarb	96.8		P	80 - 120
Triadimefon	98.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A114111
Included Lab Sample IDs: 2344494

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	95.7		P	80 - 120
Alachlor	93.8		P	80 - 120
Ametryn	101		P	80 - 120
Atrazine	99.6		P	80 - 120
Atrazine Desethyl	100		P	80 - 120
Azinphos Methyl	103		P	80 - 120
Azoxystrobin	99.9		P	80 - 120
Bromacil	96.2		P	80 - 120
Butylate	101		P	80 - 120
Caffeine	111		P	80 - 120
Carbophenothion	103		P	80 - 120
Carfentrazone Ethyl	98.8		P	80 - 120
Chlorfenapyr	105		P	80 - 120
Chlorpyrifos Ethyl	102		P	80 - 120
Chlorpyrifos Methyl	101		P	80 - 120
Coumaphos	99.7		P	80 - 120
Cyanazine	82.8		P	80 - 120
Cyprodinil	100		P	80 - 120
Demeton	98.1		P	80 - 120
Diazinon	96.0		P	80 - 120
Difenoconazole	103		P	80 - 120
Dimethenamid	99.5		P	80 - 120
Dimethomorph	87.8		P	80 - 120
Disulfoton	97.1		P	80 - 120
Dithiopyr	98.7		P	80 - 120
EPTC	99.9		P	80 - 120
Ethion	98.1		P	80 - 120
Ethoprop	99.6		P	80 - 120
Etridiazole	97.9		P	80 - 120
Fenamiphos	94.9		P	80 - 120
Fenbuconazole	97.1		P	80 - 120
Fipronil	93.2		P	80 - 120
Fipronil Desulfinyl	97.3		P	80 - 120
Fipronil Sulfide	96.5		P	80 - 120
Fipronil Sulfone	88.1		P	80 - 120
Fluazifop-P-butyl	104		P	80 - 120
Fludioxonil	98.1		P	80 - 120
Flumioxazin	91.3		P	80 - 120
Flutolanil	97.5		P	80 - 120
Fluxapyroxad	95.7		P	80 - 120
Fonofos	98.6		P	80 - 120
Hexazinone	91.1		P	80 - 120
Imazalil	97.5		P	80 - 120
Iprodione	88.4		P	80 - 120
Loratadine	102		P	80 - 120
Malathion	101		P	80 - 120
Metalaxyl	99.8		P	80 - 120
Metolachlor	104		P	80 - 120
Metribuzin	90.3		P	80 - 120
Mevinphos	103		P	80 - 120
Molinate	98.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A114111
Included Lab Sample IDs: 2344494

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Myclobutanil	100		P	80 - 120
Naled	99.5		P	80 - 120
Napropamide	99.5		P	80 - 120
Norflurazon	103		P	80 - 120
Oxadiazon	100		P	80 - 120
Oxyfluorfen	108		P	80 - 120
Parathion Ethyl	98.3		P	80 - 120
Parathion Methyl	101		P	80 - 120
Pendimethalin	99.8		P	80 - 120
Phenytol	99.1		P	80 - 120
Phorate	102		P	80 - 120
Prodiamine	104		P	80 - 120
Prometon	97.3		P	80 - 120
Prometryn	98.4		P	80 - 120
Pronamide	97.3		P	80 - 120
Propanil	107		P	80 - 120
Propargite	95.6		P	80 - 120
Propiconazole	94.5		P	80 - 120
Pyraflufen Ethyl	90.4		P	80 - 120
Pyridaben	95.5		P	80 - 120
Pyriproxyfen	96.8		P	80 - 120
Simazine	98.7		P	80 - 120
Stirophos	104		P	80 - 120
Sulfentrazone	96.1		P	80 - 120
Tebuconazole	95.4		P	80 - 120
Terbufos	100		P	80 - 120
Terbutylazine	99.7		P	80 - 120
Thiobencarb	97.6		P	80 - 120
Triadimefon	99.3		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	96.7				8.15	
EPA 350.1 Rev. 2.0	Ammonia-N	91.0	100	99.8			0.116
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	104	112			6.49
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100	101	102			1.47
EPA 365.1 Rev. 2.0	Total-P	96.0	96.5	92.1			4.56
EPA 8270E	2-Ethylhexyl	95.2	106	100			5.11
	2,3,4,5-tetrabromobenzoate (EHTBB)						
	Acetochlor	120	77.1	76.0			0.638
	Alachlor	113	92.8	90.7			2.33
	Ametryn	114	92.3	90.0			2.56
	Atrazine	114					1.10
	Atrazine Desethyl	94.7	59.9	67.2			9.17
	Avobenzone	105	93.1	96.6			3.70
	Azinphos Methyl	143	118	123			3.57
	Azoxystrobin	152	92.5	102			5.45
	Bromacil	97.1	75.5	81.0			7.03
	Butylate	72.2	57.9	61.2			5.60
	Caffeine	73.7	93.3	85.8			8.20
	Carbophenothion	119	97.4	95.9			1.55
	Carfentrazone Ethyl	129	105	107			2.03
	Chlorfenapyr	109	101	96.3			4.46
	Chlorpyrifos Ethyl	110	89.2	90.2			1.20
	Chlorpyrifos Methyl	119	105	101			3.37
	Coumaphos	129	113	107			5.35
	Cyanazine	112	88.9	87.5			1.57
	Cyprodinil	120	89.5	86.4			3.31
	Demeton	111	91.5	93.4			2.01
	Diazinon	123	99.2	97.6			1.67
	Difenoconazole	145	131	119			9.37
	Dimethenamid	101	80.8	75.2			6.69
	Dimethomorph	175	95.2	116			20.1
	Disulfoton	113	91.7	87.0			5.28
	Dithiopyr	100	82.7	86.2			4.16
	EPTC	60.1	51.1	52.4			2.54
	Ethion	75.6	103	78.3			27.1
	Ethoprop	113	97.9	97.5			0.370
	Etridiazole	75.9	59.0	57.0			3.54
	Fenamiphos	113	83.3	102			19.9
	Fenbuconazole	117	103	98.1			4.72
	Fipronil	118	95.0	93.8			1.37
	Fipronil Desulfinyl	123	102	103			0.325
	Fipronil Sulfide	102	93.9	91.8			2.33
	Fipronil Sulfone	117	86.4	81.6			5.69
	Fluazifop-P-butyl	124	98.6	97.7			0.919
	Fludioxonil	112	87.4	86.4			1.23
	Flumioxazin	173	153	138			9.75
	Flutolanil	110	90.1	83.6			6.51
	Fluxapyroxad	105	86.1	81.5			4.63
	Fonofos	110	89.2	91.8			2.94
	Hexazinone	116	99.3	100			1.14
	Imazalil	110	82.9	72.0			14.1
	Iprodione	123	104	99.5			4.50
	Loratadine	168	93.8	117			21.8

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 8270E	Malathion	120	100	108		7.10
	Metalaxyl	114	95.3	88.5		7.41
	Metolachlor	111				2.17
	Metribuzin	130	100	115		13.6
	Mevinphos	109	98.6	100		1.60
	Molinate	78.8	68.6	75.2		9.20
	Myclobutanil	112	89.3	87.1		2.51
	Naled	80.5	96.1	98.1		1.99
	Napropamide	102	86.1	83.2		3.44
	Norflurazon	109	89.8	83.2		7.30
	Octinoxate	99.0	99.1	102		2.84
	Oxadiazon	96.7	78.6	72.6		7.94
	Oxybenzone	86.7	92.0	97.8		6.08
	Oxyfluorfen	136	127	112		12.1
	Parathion Ethyl	118	102	104		2.35
	Parathion Methyl	150	129	119		8.00
	PBDE-47	90.8	100	93.0		7.52
	PBDE-99	87.6	99.2	90.8		8.75
	Pendimethalin	123	110	104		5.62
	Phenytoin	44.5	66.2	35.0		61.6
	Phorate	111	88.3	95.3		7.58
	Prodiamine	55.8	44.4	54.8		21.0
	Prometon	84.6	75.8	73.2		3.56
	Prometryn	109	90.5	86.6		4.40
	Pronamide	129	104	96.1		7.61
	Propanil	116	91.1	86.4		5.20
	Propargite	75.2	92.1	56.0		48.8
	Propiconazole	102	97.4	90.4		7.45
	Pyraflufen Ethyl	111	89.4	88.2		1.32
	Pyridaben	112	97.8	88.2		10.3
	Pyriproxyfen	103	90.9	81.5		10.9
	Simazine	120	93.2	104		10.5
	Stirophos	84.2	97.0	74.1		26.8
	Sulfentrazole	126	97.4	98.9		1.53
	Tebuconazole	61.9	79.2	51.8		34.1
	Terbufos	130	110	110		0.424
	Terbutylazine	108	94.3	98.2		4.01
	Thiobencarb	99.9	76.6	82.6		7.51
	Tri-o-cresyl Phosphate	99.3	95.5	95.2		0.324
	Triadimefon	103	83.6	85.5		2.22
SM 2320 B-2011	Total Alkalinity	100				0.223
SM 4500-F- C-2011	Fluoride	101	101	98.8		1.43
SM 5310 B-2011	Organic Carbon	99.0	89.8	91.3		1.20
	Organic Carbon	97.6	88.1	90.7		2.73

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2344483, 2344484
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2344485, 2344486
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2344485, 2344486
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2344485, 2344486
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2344485, 2344486

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	23444493, 23444494
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	23444493, 23444494
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	23444483, 23444484
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	23444483, 23444484
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	23444483, 23444484
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	23444485, 23444486

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	07/29/2022			07/29/2022 10:22	Khloe J Berg	2344483
	07/29/2022			07/29/2022 10:23	Khloe J Berg	2344484
EPA 350.1 Rev. 2.0	07/29/2022			07/29/2022 12:00	Ping Hua	2344486
	07/29/2022			07/29/2022 12:04	Ping Hua	2344485
EPA 351.2 Rev. 2.0	07/29/2022	08/01/2022 14:10	Samantha L Bates	08/02/2022 12:16	Alexandra J Mattheus	2344485
	07/29/2022	08/01/2022 14:10	Samantha L Bates	08/02/2022 12:18	Alexandra J Mattheus	2344486
EPA 353.2 Rev. 2.0	07/29/2022			08/01/2022 10:32	Beverly Y. Sanders	2344485
	07/29/2022			08/01/2022 10:33	Beverly Y. Sanders	2344486
EPA 365.1 Rev. 2.0	07/29/2022	08/03/2022 17:35	Adam P Silver	08/04/2022 14:08	James L Waggerby	2344486
	07/29/2022	08/03/2022 17:35	Adam P Silver	08/04/2022 14:11	James L Waggerby	2344485
EPA 8270E	07/29/2022	08/01/2022 08:30	Rasheda Ghaffari	08/05/2022 15:44	Lipi Saha	2344493
	07/29/2022	08/01/2022 08:30	Rasheda Ghaffari	08/05/2022 16:03	Lipi Saha	2344494
	07/29/2022	08/01/2022 08:30	Rasheda Ghaffari	08/08/2022 22:53	Michael Poppell	2344493
	07/29/2022	08/01/2022 08:30	Rasheda Ghaffari	08/12/2022 18:04	Michael Poppell	2344494
SM 2320 B-2011	07/29/2022			08/01/2022 19:38	Adam P Silver	2344483
	07/29/2022			08/01/2022 19:51	Adam P Silver	2344484
SM 2540 D-2011	07/29/2022			08/02/2022 15:05	Yijie Li	2344483, 2344484
SM 4500-F- C-2011	07/29/2022			08/01/2022 17:24	Adam P Silver	2344483
	07/29/2022			08/01/2022 17:29	Adam P Silver	2344484
SM 5310 B-2011	07/29/2022			08/02/2022 05:39	Khloe J Berg	2344485
	07/29/2022			08/03/2022 02:44	Khloe J Berg	2344486