

Chemical Analysis Report

SO-DIST-2022-06-09-01

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

Event Description: **2022 SMP : Ten Thousand Island**

Request ID: **RQ-2022-06-06-49**

Customer: **SO-DIST**

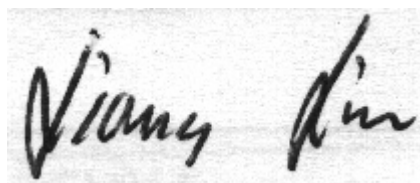
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901-3381
Attn: William Mullen

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 01-JUL-2022 10:18

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

Case Narrative

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

Results for the following analytical groups are included in this report: 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: BarronRiverCanalAtUS41

Collection Date/Time: 06/08/2022 11:45

Field ID: G1SD0125

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2333435	EPA 8270E	Oxybenzone**	9.7	U	ng/L	P415088	
		Acetochlor	0.24	U	ng/L	P415088	
		Octinoxate**	19	U	ng/L	P415088	
		Alachlor	0.24	U	ng/L	P415088	
		Avobenzone**	97	U	ng/L	P415088	
		Ametryn	0.58	U	ng/L	P415088	
		Atrazine	0.98		ng/L	P415088	
		PBDE-47**	3.9	U	ng/L	P415088	
		Atrazine Desethyl	1.4	U	ng/L	P415088	
		PBDE-99**	4.8	U	ng/L	P415088	MS
		Azinphos Methyl	1.9	U	ng/L	P415088	
		Tri-o-cresyl Phosphate**	5.8	U	ng/L	P415088	
		Azoxystrobin**	0.48	U	ng/L	P415088	
		Bromacil	0.48	U	ng/L	P415088	
		2-Ethylhexyl	12	U	ng/L	P415088	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.39	U	ng/L	P415088	
		Caffeine**	7.2	U	ng/L	P415088	
		Carbophenothion	0.19	U	ng/L	P415088	
		Carfentrazone Ethyl**	0.097	U	ng/L	P415088	
		Chlorfenapyr**	0.17	U	ng/L	P415088	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P415088	
		Chlorpyrifos Methyl	0.048	U	ng/L	P415088	
		Coumaphos**	0.48	U	ng/L	P415088	
		Cyanazine	3.1	U	ng/L	P415088	
		Cyprodinil**	0.097	U	ng/L	P415088	
		Demeton	1.4	U	ng/L	P415088	
		Diazinon	0.12	U	ng/L	P415088	
		Difenoconazole**	0.58	U	ng/L	P415088	RPD
		Dimethenamid**	0.097	U	ng/L	P415088	
		Dimethomorph**	0.17	U	ng/L	P415088	RPD
		Disulfoton	0.48	U	ng/L	P415088	
		Dithiopyr**	0.17	U	ng/L	P415088	
		EPTC	1.2	U	ng/L	P415088	
		Ethion	0.14	U	ng/L	P415088	
		Ethoprop	0.097	U	ng/L	P415088	
		Etridiazole**	0.14	UJ	ng/L	P415088	LCS
		Fenamiphos	0.48	U	ng/L	P415088	
		Fenbuconazole**	0.12	U	ng/L	P415088	
		Fipronil	0.24	U	ng/L	P415088	
		Fipronil Desulfinyl**	0.12	U	ng/L	P415088	
		Fipronil Sulfide	0.14	U	ng/L	P415088	
		Fipronil Sulfone	0.14	U	ng/L	P415088	
		Fluazifop-P-butyl**	0.097	U	ng/L	P415088	

Field ID: G1SD0125

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2333435	EPA 8270E	Fludioxonil**	0.12	U	ng/L	P415088	
		Flumioxazin**	1.7	U	ng/L	P415088	RPD
		Flutolanil**	0.097	U	ng/L	P415088	
		Fluxapyroxad**	0.19	I	ng/L	P415088	RPD
		Fonofos	0.19	U	ng/L	P415088	
		Hexazinone	62		ng/L	P415088	
		Imazalil**	0.72	U	ng/L	P415088	
		Iprodione**	0.58	U	ng/L	P415088	
		Loratadine**	0.097	U	ng/L	P415088	MS, RPD
		Malathion	0.34	U	ng/L	P415088	
		Metalaxyl	0.72	U	ng/L	P415088	
		Metolachlor	0.79	I	ng/L	P415088	
		Metribuzin	2.4	U	ng/L	P415088	
		Mevinphos	1.0	U	ng/L	P415088	
		Molinate	0.29	U	ng/L	P415088	
		Myclobutanil**	0.24	U	ng/L	P415088	
		Naled**	1.4	U	ng/L	P415088	
		Napropamide**	0.39	U	ng/L	P415088	MS, RPD
		Norflurazon	0.75	I	ng/L	P415088	
		Oxadiazon	2.6		ng/L	P415088	RPD
		Oxyfluorfen**	0.14	U	ng/L	P415088	
		Parathion Ethyl	0.24	U	ng/L	P415088	
		Parathion Methyl	0.53	U	ng/L	P415088	
		Pendimethalin	0.97	U	ng/L	P415088	
		Phenytol**	3.4	U	ng/L	P415088	MS, RPD
		Phorate	0.51	U	ng/L	P415088	
		Prodiamine**	0.17	U	ng/L	P415088	
		Prometon	0.87	U	ng/L	P415088	
		Prometryn	0.19	U	ng/L	P415088	
		Pronamide**	0.14	U	ng/L	P415088	
		Propanil**	0.12	U	ng/L	P415088	
		Propargite**	1.4	U	ng/L	P415088	RPD
		Propiconazole**	0.48	U	ng/L	P415088	
		Pyraflufen Ethyl**	0.24	U	ng/L	P415088	
		Pyridaben**	0.43	U	ng/L	P415088	
		Pyriproxyfen**	0.12	U	ng/L	P415088	RPD
		Simazine	0.48	U	ng/L	P415088	MS
		Stirophos**	0.12	U	ng/L	P415088	
		Sulfentrazone**	0.48	U	ng/L	P415088	
		Tebuconazole**	0.48	U	ng/L	P415088	RPD
		Terbufos	0.097	U	ng/L	P415088	
		Terbuthylazine	0.41	U	ng/L	P415088	
		Thiobencarb**	0.58	U	ng/L	P415088	
		Triadimefon**	0.24	U	ng/L	P415088	

Field ID: G1SD0125

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Ref. Method and Comment:
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.

Sample Location: Canal At PlantationPkwY

Collection Date/Time: 06/08/2022 11:15

Field ID: G1SD0126

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2333436	EPA 8270E	Oxybenzone**	9.6	U	ng/L	P415088	
		Acetochlor	0.24	U	ng/L	P415088	
		Octinoxate**	19	U	ng/L	P415088	
		Alachlor	0.24	U	ng/L	P415088	
		Avobenzone**	96	U	ng/L	P415088	
		Ametryn	0.58	U	ng/L	P415088	
		Atrazine	1.1		ng/L	P415088	
		PBDE-47**	3.8	U	ng/L	P415088	
		Atrazine Desethyl	1.4	U	ng/L	P415088	
		PBDE-99**	4.8	U	ng/L	P415088	MS
		Azinphos Methyl	1.9	U	ng/L	P415088	
		Tri-o-cresyl Phosphate**	5.8	U	ng/L	P415088	
		Azoxystrobin**	0.48	U	ng/L	P415088	
		Bromacil	0.48	U	ng/L	P415088	
		2-Ethylhexyl	12	U	ng/L	P415088	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.38	U	ng/L	P415088	
		Caffeine**	7.2	U	ng/L	P415088	
		Carbophenothion	0.19	U	ng/L	P415088	
		Carfentrazone Ethyl**	0.096	U	ng/L	P415088	
		Chlorfenapyr**	0.17	U	ng/L	P415088	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P415088	
		Chlorpyrifos Methyl	0.048	U	ng/L	P415088	
		Coumaphos**	0.48	U	ng/L	P415088	
		Cyanazine	3.1	U	ng/L	P415088	
		Cyprodinil**	0.096	U	ng/L	P415088	
		Demeton	1.4	U	ng/L	P415088	
		Diazinon	0.12	U	ng/L	P415088	
		Difenoconazole**	0.58	U	ng/L	P415088	RPD
		Dimethenamid**	0.096	U	ng/L	P415088	
		Dimethomorph**	0.17	U	ng/L	P415088	RPD
		Disulfoton	0.48	U	ng/L	P415088	
		Dithiopyr**	0.17	U	ng/L	P415088	
		EPTC	1.2	U	ng/L	P415088	
		Ethion	0.14	U	ng/L	P415088	
		Ethoprop	0.096	U	ng/L	P415088	
		Etridiazole**	0.14	UJ	ng/L	P415088	LCS
		Fenamiphos	0.48	U	ng/L	P415088	
		Fenbuconazole**	0.12	U	ng/L	P415088	
		Fipronil	0.24	U	ng/L	P415088	
		Fipronil Desulfinyl**	0.12	U	ng/L	P415088	
		Fipronil Sulfide	0.14	U	ng/L	P415088	
		Fipronil Sulfone	0.14	U	ng/L	P415088	
		Fluazifop-P-butyl**	0.096	U	ng/L	P415088	

Field ID: G1SD0126

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2333436	EPA 8270E	Fludioxonil**	0.12	U	ng/L	P415088	
		Flumioxazin**	1.7	U	ng/L	P415088	RPD
		Flutolanil**	0.096	U	ng/L	P415088	
		Fluxapyroxad**	0.096	U	ng/L	P415088	RPD
		Fonofos	0.19	U	ng/L	P415088	
		Hexazinone	1.2	I	ng/L	P415088	
		Imazalil**	0.72	U	ng/L	P415088	
		Iprodione**	0.58	U	ng/L	P415088	
		Loratadine**	0.096	U	ng/L	P415088	MS, RPD
		Malathion	0.34	U	ng/L	P415088	
		Metalaxyl	0.72	U	ng/L	P415088	
		Metolachlor	0.46	I	ng/L	P415088	
		Metribuzin	2.4	U	ng/L	P415088	
		Mevinphos	1.0	U	ng/L	P415088	
		Molinate	0.29	U	ng/L	P415088	
		Myclobutanil**	0.24	U	ng/L	P415088	
		Naled**	1.4	U	ng/L	P415088	
		Napropamide**	0.38	U	ng/L	P415088	MS, RPD
		Norflurazon	0.48	U	ng/L	P415088	
		Oxadiazon	1.8		ng/L	P415088	RPD
		Oxyfluorfen**	0.14	U	ng/L	P415088	
		Parathion Ethyl	0.24	U	ng/L	P415088	
		Parathion Methyl	0.53	U	ng/L	P415088	
		Pendimethalin	0.96	U	ng/L	P415088	
		Phenytol**	3.4	U	ng/L	P415088	MS, RPD
		Phorate	0.50	U	ng/L	P415088	
		Prodiamine**	0.17	U	ng/L	P415088	
		Prometon	0.86	U	ng/L	P415088	
		Prometryn	0.19	U	ng/L	P415088	
		Pronamide**	0.14	U	ng/L	P415088	
		Propanil**	0.12	U	ng/L	P415088	
		Propargite**	1.4	U	ng/L	P415088	RPD
		Propiconazole**	0.48	U	ng/L	P415088	
		Pyraflufen Ethyl**	0.24	U	ng/L	P415088	
		Pyridaben**	0.43	U	ng/L	P415088	
		Pyriproxyfen**	0.12	U	ng/L	P415088	RPD
		Simazine	0.48	U	ng/L	P415088	MS
		Stirophos**	0.12	U	ng/L	P415088	
		Sulfentrazone**	0.48	U	ng/L	P415088	
		Tebuconazole**	0.48	U	ng/L	P415088	RPD
		Terbufos	0.096	U	ng/L	P415088	
		Terbuthylazine	0.41	U	ng/L	P415088	
		Thiobencarb**	0.58	U	ng/L	P415088	
		Triadimefon**	0.24	U	ng/L	P415088	

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
Ref. Method and Comment:							
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.							

Sample Location: ENRE10 Lopez River

Collection Date/Time: 06/08/2022 10:25

Field ID: G5SD0092

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2333427	EPA 180.1 Rev. 2.0	Turbidity	3.4		NTU	P414996	
	SM 2320 B-2011	Total Alkalinity	139		mg CaCO3/L	P415497	
	SM 2540 D-2011	TSS	6	IA	mg/L	P415435	
	SM 4500-F- C-2011	Fluoride	1.0		mg F/L	P415762	
2333428	EPA 350.1 Rev. 2.0	Ammonia-N	0.064		mg N/L	P415587	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.67		mg N/L	P415357	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.029		mg N/L	P415831	
	EPA 365.1 Rev. 2.0	Total-P	0.034		mg P/L	P415184	
	SM 5310 B-2011	Organic Carbon	8.7		mg C/L	P415363	
2333434	EPA 8270E	Oxybenzone**	10	U	ng/L	P415088	
		Acetochlor	0.25	U	ng/L	P415088	
		Octinoxate**	20	U	ng/L	P415088	
		Alachlor	0.25	U	ng/L	P415088	
		Avobenzone**	100	U	ng/L	P415088	
		Ametryn	0.61	U	ng/L	P415088	
		Atrazine	0.66	I	ng/L	P415088	
		PBDE-47**	4.1	U	ng/L	P415088	
		Atrazine Desethyl	1.5	U	ng/L	P415088	
		PBDE-99**	5.1	U	ng/L	P415088	MS
		Azinphos Methyl	2.0	U	ng/L	P415088	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P415088	
		Azoxystrobin**	0.51	U	ng/L	P415088	
		Bromacil	0.51	U	ng/L	P415088	
		2-Ethylhexyl	12	U	ng/L	P415088	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.41	U	ng/L	P415088	
		Caffeine**	7.6	U	ng/L	P415088	
		Carbophenothion	0.20	U	ng/L	P415088	
		Carfentrazone Ethyl**	0.10	U	ng/L	P415088	
		Chlorfenapyr**	0.18	U	ng/L	P415088	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P415088	
		Chlorpyrifos Methyl	0.051	U	ng/L	P415088	
		Coumaphos**	0.51	U	ng/L	P415088	
		Cyanazine	3.3	U	ng/L	P415088	
		Cyprodinil**	0.10	U	ng/L	P415088	
		Demeton	1.5	U	ng/L	P415088	
		Diazinon	0.13	U	ng/L	P415088	
		Difenoconazole**	0.61	U	ng/L	P415088	RPD
		Dimethenamid**	0.10	U	ng/L	P415088	
		Dimethomorph**	0.18	U	ng/L	P415088	RPD
		Disulfoton	0.51	U	ng/L	P415088	
		Dithiopyr**	0.18	U	ng/L	P415088	
		EPTC	1.3	U	ng/L	P415088	
		Ethion	0.15	U	ng/L	P415088	

Field ID: G5SD0092

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2333434	EPA 8270E	Ethoprop	0.10	U	ng/L	P415088	
		Etridiazole**	0.15	UJ	ng/L	P415088	LCS
		Fenamiphos	0.51	U	ng/L	P415088	
		Fenbuconazole**	0.13	U	ng/L	P415088	
		Fipronil	0.25	U	ng/L	P415088	
		Fipronil Desulfinyl**	0.13	U	ng/L	P415088	
		Fipronil Sulfide	0.15	U	ng/L	P415088	
		Fipronil Sulfone	0.15	U	ng/L	P415088	
		Fluazifop-P-butyl**	0.10	U	ng/L	P415088	
		Fludioxonil**	0.13	U	ng/L	P415088	
		Flumioxazin**	1.8	U	ng/L	P415088	RPD
		Flutolanil**	0.10	U	ng/L	P415088	
		Fluxapyroxad**	0.10	U	ng/L	P415088	RPD
		Fonofos	0.20	U	ng/L	P415088	
		Hexazinone	1.1	I	ng/L	P415088	
		Imazalil**	0.76	U	ng/L	P415088	
		Iprodione**	0.61	U	ng/L	P415088	
		Loratadine**	0.10	U	ng/L	P415088	MS, RPD
		Malathion	0.35	U	ng/L	P415088	
		Metalaxyl	0.76	U	ng/L	P415088	
		Metolachlor	0.35	U	ng/L	P415088	
		Metribuzin	2.5	U	ng/L	P415088	
		Mevinphos	1.1	U	ng/L	P415088	
		Molinate	0.30	U	ng/L	P415088	
		Myclobutanil**	0.25	U	ng/L	P415088	
		Naled**	1.5	U	ng/L	P415088	
		Napropamide**	0.41	U	ng/L	P415088	MS, RPD
		Norflurazon	0.51	U	ng/L	P415088	
		Oxadiazon	0.30	U	ng/L	P415088	RPD
		Oxyfluorfen**	0.15	U	ng/L	P415088	
		Parathion Ethyl	0.25	U	ng/L	P415088	
		Parathion Methyl	0.56	U	ng/L	P415088	
		Pendimethalin	1.0	U	ng/L	P415088	
		Phenytol**	3.5	U	ng/L	P415088	MS, RPD
		Phorate	0.53	U	ng/L	P415088	
		Prodiamine**	0.18	U	ng/L	P415088	
		Prometon	0.91	U	ng/L	P415088	
		Prometryn	0.20	U	ng/L	P415088	
		Pronamide**	0.15	U	ng/L	P415088	
		Propanil**	0.13	U	ng/L	P415088	
		Propargite**	1.5	U	ng/L	P415088	RPD
		Propiconazole**	0.51	U	ng/L	P415088	
		Pyraflufen Ethyl**	0.25	U	ng/L	P415088	
		Pyridaben**	0.46	U	ng/L	P415088	
		Pyriproxyfen**	0.13	U	ng/L	P415088	RPD

Field ID: G5SD0092

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2333434	EPA 8270E	Simazine	0.51	U	ng/L	P415088	MS
		Stirophos**	0.13	U	ng/L	P415088	
		Sulfentrazone**	0.51	U	ng/L	P415088	
		Tebuconazole**	0.51	U	ng/L	P415088	RPD
		Terbufos	0.10	U	ng/L	P415088	
		Terbuthylazine	0.43	U	ng/L	P415088	
		Thiobencarb**	0.61	U	ng/L	P415088	
		Triadimefon**	0.25	U	ng/L	P415088	

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 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: P414996

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415587

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415357

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P415831

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415184

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

Reference Method: EPA 8270E
Batch ID: P415088

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: P415088

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: P415088

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: P415088

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
Phenytoin	3.5	U	ng/L
Phenytoin	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L
Terbutylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
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: P415497

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

Reference Method: SM 2540 D-2011
Batch ID: P415435

Component	Result	Code	Units
TSS	3	U	mg/L

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

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P415363

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: P414996

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: P415587

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

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P415357

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

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P415831

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	98.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P415184

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

Reference Method: EPA 8270E
 Batch ID: P415088

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	81.9		P	50 - 150
Acetochlor	95.9		P	70 - 121
Alachlor	86.7		P	68 - 119
Ametryn	95.9		P	64 - 139
Atrazine	84.3		P	76 - 120
Atrazine Desethyl	46.5		P	44 - 126
Avobenzone	82.3		P	76 - 212
Azinphos Methyl	138		P	43 - 192
Azoxystrobin	106		P	36 - 224
Bromacil	56.0		P	52 - 121
Butylate	52.2		P	28 - 91.0
Caffeine	91.9		P	50 - 134
Carbophenothion	118		P	56 - 129
Carfentrazone Ethyl	114		P	60 - 141
Chlorfenapyr	85.9		P	56 - 115
Chlorpyrifos Ethyl	93.8		P	60 - 118
Chlorpyrifos Methyl	106		P	68 - 119
Coumaphos	155		P	18 - 250
Cyanazine	86.0		P	61 - 250
Cyprodinil	84.4		P	55 - 145
Demeton	80.4		P	30 - 159
Diazinon	93.2		P	70 - 123

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P415088

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Difenoconazole	141		P	49 - 204
Dimethenamid	77.7		P	64 - 115
Dimethomorph	94.3		P	12 - 219
Disulfoton	90.3		P	44 - 125
Dithiopyr	88.3		P	64 - 115
EPTC	55.0		P	28 - 86.0
Ethion	77.8		P	33 - 125
Ethoprop	81.4		P	64 - 116
Etridiazole	115		F	34 - 91.0
Fenamiphos	104		P	12 - 127
Fenbuconazole	110		P	59 - 151
Fipronil	91.5		P	67 - 129
Fipronil Desulfinyl	89.5		P	65 - 127
Fipronil Sulfide	90.8		P	61 - 116
Fipronil Sulfone	99.2		P	55 - 117
Fluazifop-P-butyl	95.5		P	62 - 127
Fludioxonil	93.4		P	62 - 128
Flumioxazin	132		P	33 - 250
Flutolanil	88.9		P	56 - 127
Fluxapyroxad	115		P	45 - 128
Fonofos	86.4		P	62 - 111
Hexazinone	91.1		P	46 - 139
Imazalil	80.9		P	38 - 142
Iprodione	115		P	47 - 135
Loratadine	84.1		P	10 - 244
Malathion	110		P	61 - 139
Metalaxyl	81.0		P	10 - 119
Metolachlor	87.9		P	65 - 118
Metribuzin	80.9		P	51 - 250
Mevinphos	71.7		P	53 - 121
Molinate	73.0		P	42 - 96.0
Myclobutanil	99.5		P	55 - 128
Naled	65.5		P	10 - 98.0
Napropamide	77.3		P	49 - 121
Norflurazon	96.1		P	61 - 126
Octinoxate	78.9		P	30 - 159
Oxadiazon	77.5		P	59 - 116
Oxybenzone	75.1		P	61 - 139
Oxyfluorfen	111		P	64 - 137
Parathion Ethyl	87.8		P	70 - 112
Parathion Methyl	105		P	76 - 133
PBDE-47	76.4		P	50 - 150
PBDE-99	75.8		P	50 - 150
Pendimethalin	91.7		P	52 - 117
Phenytol	18.1		P	10 - 199
Phorate	67.4		P	48 - 121
Prodiamine	97.9		P	26 - 142
Prometon	95.4		P	43 - 123
Prometryn	76.8		P	66 - 127
Pronamide	94.9		P	75 - 121
Propanil	79.4		P	45 - 150
Propargite	110		P	42 - 208

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P415088

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Propiconazole	96.1		P	60 - 125
Pyraflufen Ethyl	107		P	70 - 138
Pyridaben	128		P	35 - 245
Pyriproxyfen	106		P	30 - 149
Simazine	75.1		P	72 - 125
Stirophos	87.4		P	29 - 164
Sulfentrazone	31.3		P	21 - 139
Tebuconazole	100		P	10 - 115
Terbufos	102		P	60 - 123
Terbuthylazine	84.1		P	72 - 115
Thiobencarb	81.6		P	31 - 139
Tri-o-cresyl Phosphate	81.0		P	50 - 150
Triadimefon	80.7		P	65 - 116

Reference Method: SM 2320 B-2011

Batch ID: P415497

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

Reference Method: SM 4500-F- C-2011

Batch ID: P415762

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

Reference Method: SM 5310 B-2011

Batch ID: P415363

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415587

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333006	Ammonia-N	104	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415357

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332469	Kjeldahl Nitrogen	98.2	107	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P415831

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333428	NO2NO3-N	98.0	97.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415184

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333484	Total-P	94.4	94.6	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P415088

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333511	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	71.5	67.2	P/P	50 - 150
2333511	Acetochlor	104	85.4	P/P	65 - 124
2333511	Alachlor	96.1	76.9	P/P	61 - 121
2333511	Ametryn	116	99.4	P/P	52 - 216
2333511	Atrazine Desethyl	22.9	24.7	P/P	15 - 160
2333511	Avobenzone	85.0	79.1	P/P	59 - 206
2333511	Azinphos Methyl	148	78.7	P/P	40 - 292
2333511	Azoxystrobin	80.6	99.9	P/P	12 - 242
2333511	Bromacil	59.6	57.5	P/P	54 - 167
2333511	Butylate	50.6	59.2	P/P	14 - 94.0
2333511	Caffeine	96.2	91.1	P/P	10 - 226
2333511	Carbophenothion	113	103	P/P	49 - 122
2333511	Carfentrazone Ethyl	125	100	P/P	53 - 138
2333511	Chlorfenapyr	83.5	85.7	P/P	50 - 150
2333511	Chlorpyrifos Ethyl	91.8	81.3	P/P	52 - 122
2333511	Chlorpyrifos Methyl	99.1	85.5	P/P	66 - 117
2333511	Coumaphos	145	126	P/P	50 - 220
2333511	Cyanazine	80.6	58.9	P/P	43 - 245
2333511	Cyprodinil	90.6	76.5	P/P	50 - 150
2333511	Demeton	127	123	P/P	43 - 188
2333511	Diazinon	111	91.8	P/P	69 - 131
2333511	Difenoconazole	170	99.9	P/P	34 - 231
2333511	Dimethenamid	87.1	66.7	P/P	55 - 118
2333511	Dimethomorph	88.4	142	P/P	50 - 150
2333511	Disulfoton	89.0	79.5	P/P	38 - 141
2333511	EPTC	44.9	55.6	P/P	18 - 85.0
2333511	Ethion	71.6	46.5	P/P	10 - 131
2333511	Ethoprop	91.8	84.2	P/P	65 - 129

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P415088

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333511	Etridiazole	124	120	P/P	50 - 150
2333511	Fenamiphos	101	104	P/P	31 - 137
2333511	Fenbuconazole	124	92.3	P/P	57 - 160
2333511	Fipronil	103	86.5	P/P	62 - 132
2333511	Fipronil Desulfinyl	95.7	81.8	P/P	57 - 131
2333511	Fipronil Sulfide	87.8	81.9	P/P	15 - 138
2333511	Fipronil Sulfone	91.7	74.4	P/P	21 - 134
2333511	Fluazifop-P-butyl	103	85.6	P/P	54 - 133
2333511	Fludioxonil	97.1	76.2	P/P	58 - 127
2333511	Flumioxazin	158	82.7	P/P	33 - 300
2333511	Flutolanil	91.9	72.5	P/P	42 - 130
2333511	Fluxapyroxad	131	78.9	P/P	23 - 141
2333511	Fonofos	95.4	82.3	P/P	58 - 119
2333511	Hexazinone	88.2	70.9	P/P	68 - 172
2333511	Imazalil	73.8	75.7	P/P	48 - 283
2333511	Iprodione	140	112	P/P	38 - 140
2333511	Loratadine	88.5	163	P/F	50 - 150
2333511	Malathion	99.9	93.2	P/P	40 - 137
2333511	Metalaxyl	80.1	67.0	P/P	21 - 129
2333511	Metolachlor	90.7	73.1	P/P	55 - 122
2333511	Metribuzin	75.1	88.5	P/P	38 - 187
2333511	Mevinphos	78.2	72.7	P/P	54 - 134
2333511	Molinate	73.0	69.6	P/P	41 - 97.0
2333511	Myclobutanil	98.9	75.8	P/P	56 - 125
2333511	Naled	77.2	75.3	P/P	10 - 108
2333511	Napropamide	75.4	27.3	P/F	50 - 150
2333511	Octinoxate	66.8	80.2	P/P	25 - 150
2333511	Oxybenzone	61.1	79.4	P/P	59 - 147
2333511	Oxyfluorfen	120	98.6	P/P	61 - 153
2333511	Parathion Ethyl	85.2	74.8	P/P	59 - 130
2333511	Parathion Methyl	114	99.4	P/P	65 - 155
2333511	PBDE-47	62.3	60.5	P/P	50 - 150
2333511	PBDE-99	60.8	49.6	P/F	50 - 150
2333511	Pendimethalin	105	93.8	P/P	49 - 138
2333511	Phenytol	45.6	33.3	F/F	50 - 200
2333511	Phorate	69.1	68.6	P/P	54 - 161
2333511	Prodiamine	101	90.0	P/P	33 - 161
2333511	Prometon	106	95.4	P/P	48 - 140
2333511	Prometryn	84.8	75.2	P/P	55 - 134
2333511	Pronamide	101	79.7	P/P	66 - 137
2333511	Propanil	81.7	70.3	P/P	50 - 150
2333511	Propargite	115	66.8	P/P	50 - 200
2333511	Pyraflufen Ethyl	122	103	P/P	50 - 150
2333511	Pyridaben	116	95.7	P/P	50 - 200
2333511	Pyriproxyfen	105	25.0	P/P	10 - 165
2333511	Simazine	190	178	F/F	57 - 145
2333511	Stirophos	67.7	57.4	P/P	50 - 150
2333511	Tebuconazole	102	50.5	P/P	10 - 127
2333511	Terbufos	105	99.0	P/P	59 - 138
2333511	Terbutylazine	90.5	76.8	P/P	68 - 119
2333511	Thiobencarb	84.6	70.9	P/P	50 - 150
2333511	Tri-o-cresyl Phosphate	66.7	78.9	P/P	50 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P415088

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333511	Triadimefon	75.2	66.9	P/P	50 - 150

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

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

Reference Method: SM 5310 B-2011
Batch ID: P415363

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333481	Organic Carbon	88.8	90.7	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P414996

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333412	Turbidity	6.30	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P415587

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333006	Ammonia-N	3.41	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P415357

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332469	Kjeldahl Nitrogen	6.84	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P415831

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333428	NO2NO3-N	0.445	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P415184

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333484	Total-P	0.182	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P415088

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333511	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	6.23	Spike	P	0 - 30
2333511	Acetochlor	19.6	Spike	P	0 - 27
2333511	Alachlor	22.2	Spike	P	0 - 27
2333511	Ametryn	15.4	Spike	P	0 - 34
2333511	Atrazine	24.9	Spike	P	0 - 41
2333511	Atrazine Desethyl	2.36	Spike	P	0 - 38
2333511	Avobenzone	7.14	Spike	P	0 - 30
2333511	Azinphos Methyl	60.9	Spike	P	0 - 62
2333511	Azoxystrobin	11.1	Spike	P	0 - 32
2333511	Bromacil	2.51	Spike	P	0 - 30
2333511	Butylate	15.7	Spike	P	0 - 59
2333511	Caffeine	5.15	Spike	P	0 - 60
2333511	Carbophenothion	9.47	Spike	P	0 - 25
2333511	Carfentrazone Ethyl	22.1	Spike	P	0 - 26
2333511	Chlorfenapyr	2.67	Spike	P	0 - 30
2333511	Chlorpyrifos Ethyl	12.2	Spike	P	0 - 27

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P415088

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333511	Chlorpyrifos Methyl	14.7	Spike	P	0 - 26
2333511	Coumaphos	13.6	Spike	P	0 - 30
2333511	Cyanazine	31.2	Spike	P	0 - 58
2333511	Cyprodinil	16.8	Spike	P	0 - 30
2333511	Demeton	2.80	Spike	P	0 - 25
2333511	Diazinon	18.6	Spike	P	0 - 29
2333511	Difenoconazole	51.8	Spike	F	0 - 25
2333511	Dimethenamid	26.4	Spike	P	0 - 30
2333511	Dimethomorph	46.3	Spike	F	0 - 30
2333511	Disulfoton	11.4	Spike	P	0 - 33
2333511	Dithiopyr	12.0	Spike	P	0 - 22
2333511	EPTC	21.2	Spike	P	0 - 38
2333511	Ethion	42.7	Spike	P	0 - 79
2333511	Ethoprop	8.60	Spike	P	0 - 23
2333511	Etridiazole	3.18	Spike	P	0 - 30
2333511	Fenamiphos	3.08	Spike	P	0 - 58
2333511	Fenbuconazole	26.8	Spike	P	0 - 37
2333511	Fipronil	16.4	Spike	P	0 - 33
2333511	Fipronil Desulfanyl	12.4	Spike	P	0 - 26
2333511	Fipronil Sulfide	5.88	Spike	P	0 - 37
2333511	Fipronil Sulfone	16.1	Spike	P	0 - 50
2333511	Fluazifop-P-butyl	18.7	Spike	P	0 - 24
2333511	Fludioxonil	24.2	Spike	P	0 - 26
2333511	Flumioxazin	62.5	Spike	F	0 - 37
2333511	Flutolanil	19.9	Spike	P	0 - 26
2333511	Fluxapyroxad	45.4	Spike	F	0 - 34
2333511	Fonofos	14.7	Spike	P	0 - 27
2333511	Hexazinone	13.2	Spike	P	0 - 36
2333511	Imazalil	2.54	Spike	P	0 - 65
2333511	Iprodione	22.0	Spike	P	0 - 33
2333511	Loratadine	59.1	Spike	F	0 - 30
2333511	Malathion	6.90	Spike	P	0 - 44
2333511	Metalaxyl	13.8	Spike	P	0 - 38
2333511	Metolachlor	18.8	Spike	P	0 - 36
2333511	Metribuzin	16.4	Spike	P	0 - 63
2333511	Mevinphos	7.21	Spike	P	0 - 26
2333511	Molinate	4.69	Spike	P	0 - 40
2333511	Myclobutanil	20.4	Spike	P	0 - 21
2333511	Naled	2.41	Spike	P	0 - 26
2333511	Napropamide	93.5	Spike	F	0 - 30
2333511	Norflurazon	5.78	Spike	P	0 - 24
2333511	Octinoxate	18.2	Spike	P	0 - 30
2333511	Oxadiazon	46.1	Spike	F	0 - 27
2333511	Oxybenzone	26.1	Spike	P	0 - 30
2333511	Oxyfluorfen	19.8	Spike	P	0 - 24
2333511	Parathion Ethyl	13.1	Spike	P	0 - 28
2333511	Parathion Methyl	13.7	Spike	P	0 - 27
2333511	PBDE-47	2.83	Spike	P	0 - 30
2333511	PBDE-99	20.4	Spike	P	0 - 30
2333511	Pendimethalin	11.4	Spike	P	0 - 31
2333511	Phenytoin	31.3	Spike	F	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
 Batch ID: P415088

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333511	Phorate	0.681	Spike	P	0 - 27
2333511	Prodiamine	9.72	Spike	P	0 - 52
2333511	Prometon	10.3	Spike	P	0 - 31
2333511	Prometryn	12.0	Spike	P	0 - 28
2333511	Pronamide	23.9	Spike	P	0 - 26
2333511	Propanil	15.0	Spike	P	0 - 30
2333511	Propargite	53.0	Spike	F	0 - 30
2333511	Propiconazole	10.6	Spike	P	0 - 31
2333511	Pyraflufen Ethyl	17.4	Spike	P	0 - 30
2333511	Pyridaben	18.8	Spike	P	0 - 30
2333511	Pyriproxyfen	123	Spike	F	0 - 50
2333511	Simazine	6.79	Spike	P	0 - 29
2333511	Stirophos	16.5	Spike	P	0 - 30
2333511	Sulfentrazone	12.0	Spike	P	0 - 33
2333511	Tebuconazole	54.4	Spike	F	0 - 44
2333511	Terbufos	5.55	Spike	P	0 - 29
2333511	Terbuthylazine	16.3	Spike	P	0 - 27
2333511	Thiobencarb	17.6	Spike	P	0 - 30
2333511	Tri-o-cresyl Phosphate	16.8	Spike	P	0 - 30
2333511	Triadimefon	11.7	Spike	P	0 - 30

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

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

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

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

Reference Method: SM 5310 B-2011
 Batch ID: P415363

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333481	Organic Carbon	1.94	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2333434
Field Sample ID: G5SD0092

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	47.5	P	20 - 200
EPA 8270E	Simazine-d10	73.0	P	71 - 140
EPA 8270E	Terbufos-d10	78.5	P	62 - 131
EPA 8270E	Terphenyl-d14	92.5	P	52 - 141

Lab Sample ID: 2333435
Field Sample ID: G1SD0125

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	51.2	P	20 - 200
EPA 8270E	Simazine-d10	84.6	P	71 - 140
EPA 8270E	Terbufos-d10	82.0	P	62 - 131
EPA 8270E	Terphenyl-d14	84.5	P	52 - 141

Lab Sample ID: 2333436
Field Sample ID: G1SD0126

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	45.1	P	20 - 200
EPA 8270E	Simazine-d10	71.3	P	71 - 140
EPA 8270E	Terbufos-d10	91.8	P	62 - 131
EPA 8270E	Terphenyl-d14	85.2	P	52 - 141

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A112710

Included Lab Sample IDs: 2333427

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

Reference Method: SM 5310 B-2011

Run ID: A112896

Included Lab Sample IDs: 2333428

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.6	97.2	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A112908

Included Lab Sample IDs: 2333434, 2333435, 2333436

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	95.8		P	80 - 120
Alachlor	96.7		P	80 - 120
Ametryn	81.0		P	80 - 120
Atrazine	97.7		P	80 - 120
Atrazine Desethyl	93.3		P	80 - 120
Azinphos Methyl	88.1		P	80 - 120
Azoxystrobin	98.7		P	80 - 120
Bromacil	93.6		P	80 - 120
Butylate	99.9		P	80 - 120
Caffeine	96.6		P	80 - 120
Carbophenothion	113		P	80 - 120
Carfentrazone Ethyl	96.4		P	80 - 120
Chlorfenapyr	112		P	80 - 120
Chlorpyrifos Ethyl	100		P	80 - 120
Chlorpyrifos Methyl	100		P	80 - 120
Coumaphos	101		P	80 - 120
Cyanazine	87.5		P	80 - 120
Cyprodinil	90.3		P	80 - 120
Demeton	102		P	80 - 120
Diazinon	97.4		P	80 - 120
Difenoconazole	88.0		P	80 - 120
Dimethenamid	98.8		P	80 - 120
Dimethomorph	96.9		P	80 - 120
Disulfoton	99.4		P	80 - 120
Dithiopyr	97.0		P	80 - 120
EPTC	102		P	80 - 120
Ethion	96.6		P	80 - 120
Ethoprop	101		P	80 - 120
Etridiazole	92.0		P	80 - 120
Fenamiphos	99.1		P	80 - 120
Fenbuconazole	91.4		P	80 - 120
Fipronil	98.6		P	80 - 120
Fipronil Desulfinyl	98.2		P	80 - 120
Fipronil Sulfide	109		P	80 - 120
Fipronil Sulfone	104		P	80 - 120
Fluazifop-P-butyl	103		P	80 - 120
Fludioxonil	102		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A112908

Included Lab Sample IDs: 2333434, 2333435, 2333436

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Flumioxazin	80.2		P	80 - 120
Flutolanil	88.8		P	80 - 120
Fluxapyroxad	97.1		P	80 - 120
Fonofos	98.3		P	80 - 120
Hexazinone	99.6		P	80 - 120
Imazalil	111		P	80 - 120
Iprodione	96.6		P	80 - 120
Loratadine	101		P	80 - 120
Malathion	106		P	80 - 120
Metalaxyl	99.1		P	80 - 120
Metolachlor	100		P	80 - 120
Metribuzin	92.2		P	80 - 120
Mevinphos	109		P	80 - 120
Molinate	103		P	80 - 120
Myclobutanil	104		P	80 - 120
Naled	106		P	80 - 120
Napropamide	93.1		P	80 - 120
Norflurazon	99.6		P	80 - 120
Oxadiazon	101		P	80 - 120
Oxyfluorfen	93.0		P	80 - 120
Parathion Ethyl	95.9		P	80 - 120
Parathion Methyl	100		P	80 - 120
Pendimethalin	97.3		P	80 - 120
Phenytoin	95.7		P	80 - 120
Phorate	93.7		P	80 - 120
Prodiamine	86.3		P	80 - 120
Prometon	86.9		P	80 - 120
Prometryn	82.7		P	80 - 120
Pronamide	98.2		P	80 - 120
Propanil	91.6		P	80 - 120
Propargite	93.3		P	80 - 120
Propiconazole	93.5		P	80 - 120
Pyraflufen Ethyl	97.6		P	80 - 120
Pyridaben	100		P	80 - 120
Pyriproxyfen	91.3		P	80 - 120
Simazine	95.1		P	80 - 120
Stirophos	109		P	80 - 120
Sulfentrazone	91.8		P	80 - 120
Tebuconazole	93.8		P	80 - 120
Terbufos	96.4		P	80 - 120
Terbutylazine	95.8		P	80 - 120
Thiobencarb	96.4		P	80 - 120
Triadimefon	103		P	80 - 120

Reference Method: EPA 8270E

Run ID: A112910

Included Lab Sample IDs: 2333434, 2333435, 2333436

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	94.2		P	80 - 120
Avobenzene	96.7		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A112910

Included Lab Sample IDs: 2333434, 2333435, 2333436

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Octinoxate	95.9		P	80 - 120
Oxybenzone	102		P	80 - 120
PBDE-47	94.4		P	80 - 120
PBDE-99	94.6		P	80 - 120
Tri-o-cresyl Phosphate	94.0		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A112938

Included Lab Sample IDs: 2333428

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

Reference Method: SM 2320 B-2011

Run ID: A112951

Included Lab Sample IDs: 2333427

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A112989

Included Lab Sample IDs: 2333428

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	105	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A112990

Included Lab Sample IDs: 2333428

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.0	99.0	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A113065

Included Lab Sample IDs: 2333427

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A113114

Included Lab Sample IDs: 2333428

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.5	98.5	P/P	90 - 110

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 180.1 Rev. 2.0	Turbidity	96.7				6.30	
EPA 350.1 Rev. 2.0	Ammonia-N	101	104	100			3.41
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101	98.2	107			6.84
EPA 353.2 Rev. 2.0	NO2NO3-N	98.5	98.0	97.6			0.445
EPA 365.1 Rev. 2.0	Total-P	101	94.4	94.6			0.182
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	81.9	71.5	67.2			6.23
	Acetochlor	95.9	104	85.4			19.6
	Alachlor	86.7	96.1	76.9			22.2
	Ametryn	95.9	116	99.4			15.4
	Atrazine	84.3					24.9
	Atrazine Desethyl	46.5	22.9	24.7			2.36
	Avobenzone	82.3	85.0	79.1			7.14
	Azinphos Methyl	138	148	78.7			60.9
	Azoxystrobin	106	80.6	99.9			11.1
	Bromacil	56.0	59.6	57.5			2.51
	Butylate	52.2	50.6	59.2			15.7
	Caffeine	91.9	96.2	91.1			5.15
	Carbophenothion	118	113	103			9.47
	Carfentrazone Ethyl	114	125	100			22.1
	Chlorfenapyr	85.9	83.5	85.7			2.67
	Chlorpyrifos Ethyl	93.8	91.8	81.3			12.2
	Chlorpyrifos Methyl	106	99.1	85.5			14.7
	Coumaphos	155	145	126			13.6
	Cyanazine	86.0	80.6	58.9			31.2
	Cyprodinil	84.4	90.6	76.5			16.8
	Demeton	80.4	127	123			2.80
	Diazinon	93.2	111	91.8			18.6
	Difenoconazole	141	170	99.9			51.8
	Dimethenamid	77.7	87.1	66.7			26.4
	Dimethomorph	94.3	88.4	142			46.3
	Disulfoton	90.3	89.0	79.5			11.4
	Dithiopyr	88.3					12.0
	EPTC	55.0	44.9	55.6			21.2
	Ethion	77.8	71.6	46.5			42.7
	Ethoprop	81.4	91.8	84.2			8.60
	Etridiazole	115	124	120			3.18
	Fenamiphos	104	101	104			3.08
	Fenbuconazole	110	124	92.3			26.8
	Fipronil	91.5	103	86.5			16.4
	Fipronil Desulfinyl	89.5	95.7	81.8			12.4
	Fipronil Sulfide	90.8	87.8	81.9			5.88
	Fipronil Sulfone	99.2	91.7	74.4			16.1
	Fluazifop-P-butyl	95.5	103	85.6			18.7
	Fludioxonil	93.4	97.1	76.2			24.2
	Flumioxazin	132	158	82.7			62.5
	Flutolanil	88.9	91.9	72.5			19.9
	Fluxapyroxad	115	131	78.9			45.4
	Fonofos	86.4	95.4	82.3			14.7
	Hexazinone	91.1	88.2	70.9			13.2
	Imazalil	80.9	73.8	75.7			2.54
	Iprodione	115	140	112			22.0
	Loratadine	84.1	88.5	163			59.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Malathion	110	99.9	93.2		6.90
	Metalaxyl	81.0	80.1	67.0		13.8
	Metolachlor	87.9	90.7	73.1		18.8
	Metribuzin	80.9	75.1	88.5		16.4
	Mevinphos	71.7	78.2	72.7		7.21
	Molinate	73.0	73.0	69.6		4.69
	Myclobutanil	99.5	98.9	75.8		20.4
	Naled	65.5	77.2	75.3		2.41
	Napropamide	77.3	75.4	27.3		93.5
	Norflurazon	96.1				5.78
	Octinoxate	78.9	66.8	80.2		18.2
	Oxadiazon	77.5				46.1
	Oxybenzone	75.1	61.1	79.4		26.1
	Oxyfluorfen	111	120	98.6		19.8
	Parathion Ethyl	87.8	85.2	74.8		13.1
	Parathion Methyl	105	114	99.4		13.7
	PBDE-47	76.4	62.3	60.5		2.83
	PBDE-99	75.8	60.8	49.6		20.4
	Pendimethalin	91.7	105	93.8		11.4
	Phenytoin	18.1	45.6	33.3		31.3
	Phorate	67.4	69.1	68.6		0.681
	Prodiamine	97.9	101	90.0		9.72
	Prometon	95.4	106	95.4		10.3
	Prometryn	76.8	84.8	75.2		12.0
	Pronamide	94.9	101	79.7		23.9
	Propanil	79.4	81.7	70.3		15.0
	Propargite	110	115	66.8		53.0
	Propiconazole	96.1				10.6
	Pyraflufen Ethyl	107	122	103		17.4
	Pyridaben	128	116	95.7		18.8
	Pyriproxyfen	106	105	25.0		123
	Simazine	75.1	190	178		6.79
	Stirophos	87.4	67.7	57.4		16.5
	Sulfentrazone	31.3				12.0
	Tebuconazole	100	102	50.5		54.4
	Terbufos	102	105	99.0		5.55
	Terbutylazine	84.1	90.5	76.8		16.3
	Thiobencarb	81.6	84.6	70.9		17.6
	Tri-o-cresyl Phosphate	81.0	66.7	78.9		16.8
	Triadimefon	80.7	75.2	66.9		11.7
SM 2320 B-2011	Total Alkalinity	104			0.939	
SM 4500-F- C-2011	Fluoride	101	101	100		0.480
SM 5310 B-2011	Organic Carbon	94.8	88.8	90.7		1.94

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2333427
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2333428
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2333428
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2333428
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2333428
EPA 8270E	Analysis of Sunscreen Compounds in Water by GC/MS-SIM	2333434, 2333435, 2333436

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2333434, 2333435, 2333436
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2333427
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2333427
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2333427
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2333428

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	06/09/2022			06/09/2022 13:52	Khloe J Berg	2333427
EPA 350.1 Rev. 2.0	06/09/2022			06/22/2022 15:45	Judith K. Clark	2333428
EPA 351.2 Rev. 2.0	06/09/2022	06/21/2022 16:37	Samantha L Bates	06/22/2022 14:37	Alexandra J Mattheus	2333428
EPA 353.2 Rev. 2.0	06/09/2022			06/27/2022 13:54	Touraj Touran	2333428
EPA 365.1 Rev. 2.0	06/09/2022	06/15/2022 11:23	Simonne.V. Calhoun	06/20/2022 17:13	James L Waggeberby	2333428
EPA 8270E	06/09/2022	06/14/2022 08:00	Fe-Val Siddell	06/17/2022 16:00	Michael Poppell	2333434
	06/09/2022	06/14/2022 08:00	Fe-Val Siddell	06/17/2022 16:27	Michael Poppell	2333435
	06/09/2022	06/14/2022 08:00	Fe-Val Siddell	06/17/2022 16:54	Michael Poppell	2333436
	06/09/2022	06/14/2022 08:00	Fe-Val Siddell	06/17/2022 20:11	Lipi Saha	2333434
	06/09/2022	06/14/2022 08:00	Fe-Val Siddell	06/17/2022 20:31	Lipi Saha	2333435
	06/09/2022	06/14/2022 08:00	Fe-Val Siddell	06/17/2022 20:50	Lipi Saha	2333436
SM 2320 B-2011	06/09/2022			06/19/2022 02:34	Dale L. Simmons	2333427
SM 2540 D-2011	06/09/2022			06/14/2022 14:14	Yijie Li	2333427
SM 4500-F- C-2011	06/09/2022			06/24/2022 14:44	Dale L. Simmons	2333427
SM 5310 B-2011	06/09/2022			06/17/2022 07:25	Khloe J Berg	2333428