

Chemical Analysis Report

SE-DIST-2023-02-09-01

Florida DEP Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **SMP - Broward Palm Beach**
Request ID: **RQ-2023-02-06-32**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
Attn: Andrew Luering

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Certified by: Colin Wright, Program Administrator

Date Certified: 01-MAR-2023 09:13

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light gray rectangular background.

Case Narrative

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

Results for the following analytical groups are included in this report: 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: Lake Melva south of Fire Station

Collection Date/Time: 02/08/2023 10:30

Field ID: G4SE0156

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2386359	DEP SOP: NU-094-1	Color (true)	5.0	I	PCU	P425619	
	EPA 180.1 Rev. 2.0	Turbidity	1.4		NTU	P425616	
	EPA 300.0 Rev. 2.1	Chloride	37		mg Cl/L	P426057	
		Sulfate	2.6		mg SO4/L	P426060	
	SM 2320 B-2011	Total Alkalinity	114		mg CaCO3/L	P426048	
	SM 2540 C-2015	TDS	182		mg/L	P426111	
	SM 2540 D-2015	TSS	3	I	mg/L	P426004	
	SM 4500-F- C-2011	Fluoride	0.23		mg F/L	P426052	
2386360	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P425979	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.55		mg N/L	P425809	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	I	mg N/L	P425777	
	EPA 365.1 Rev. 2.0	Total-P	0.018		mg P/L	P425763	
	SM 5310 B-2011	Organic Carbon	4.6		mg C/L	P425801	

Ref. Method and Comment:

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: ICWW South of Hillsboro Blvd

Collection Date/Time: 02/08/2023 11:45

Field ID: G4SE0147

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2386353	DEP SOP: NU-094-1	Color (true)	8.6		PCU	P425619	
	EPA 180.1 Rev. 2.0	Turbidity	1.4		NTU	P425615	
	EPA 300.0 Rev. 2.1	Chloride	1.4E+04		mg Cl/L	P426057	
		Sulfate	2.0E+03		mg SO4/L	P426060	
	SM 2320 B-2011	Total Alkalinity	137		mg CaCO3/L	P425908	
	SM 2540 C-2015	TDS	2.45E+04		mg/L	P426112	
	SM 2540 D-2015	TSS	4	I	mg/L	P426007	
	SM 4500-F- C-2011	Fluoride	0.98		mg F/L	P425910	
2386354	EPA 350.1 Rev. 2.0	Ammonia-N	0.035		mg N/L	P426155	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.41		mg N/L	P425808	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.070		mg N/L	P426009	
	EPA 365.1 Rev. 2.0	Total-P	0.037		mg P/L	P425733	
	SM 5310 B-2011	Organic Carbon	4.8		mg C/L	P425802	
2386372	EPA 8321B	Aldicarb	0.020	U	ug/L	P425593	
		Aldicarb Sulfone	0.0020	U	ug/L	P425593	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P425593	
		Carbaryl	0.0020	U	ug/L	P425593	
		Carbofuran	0.0020	U	ug/L	P425593	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P425593	
		Methiocarb	0.0020	U	ug/L	P425593	
		Methomyl	0.0020	U	ug/L	P425593	
		Oxamyl	0.0020	U	ug/L	P425593	
		Propoxur	0.0020	U	ug/L	P425593	
2386373		2,4-D	0.011		ug/L	P425700	
		Acesulfame K	0.10	U	ug/L	P425585	
		2,4,5-T	0.0040	U	ug/L	P425700	
		AMPA	10	UJ	ug/L	P425585	SUR
		Acetaminophen	0.0080	U	ug/L	P425700	
		Acetamiprid	0.0020	U	ug/L	P425700	
		Endothall	0.25	U	ug/L	P425585	MS
		Glufosinate	10	UJ	ug/L	P425585	SUR
		Glyphosate	10	UJ	ug/L	P425585	SUR
		Afidopyropen	0.0020	U	ug/L	P425700	
		Bentazon	0.081		ug/L	P425700	
		Sucralose	0.11		ug/L	P425585	
		Benzovindiflupyr	0.0020	U	ug/L	P425700	
		Carbamazepine	8.0E-04	U	ug/L	P425700	
		Clothianidin	0.0020	U	ug/L	P425700	
		Dinotefuran	0.0068	I	ug/L	P425700	
		Diuron	0.0050	I	ug/L	P425700	
		Fenuron	0.032	U	ug/L	P425700	
		Fluridone	0.016		ug/L	P425700	
		Imazapyr	0.094		ug/L	P425700	
		Hydrocodone	0.0020	U	ug/L	P425700	

Field ID: G4SE0147

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2386373	EPA 8321B	Ibuprofen	0.080	U	ug/L	P425700	
		Imidacloprid	0.017		ug/L	P425700	
		Linuron	0.0040	U	ug/L	P425700	
		Mandestrobin	0.0020	U	ug/L	P425700	
		MCCP	0.0020	U	ug/L	P425700	
		Naproxen	0.0080	U	ug/L	P425700	
		Primidone	0.0040	U	ug/L	P425700	
		Pyraclostrobin	0.0020	U	ug/L	P425700	
		Silvex	0.0040	U	ug/L	P425700	
		Thiamethoxam	0.0020	U	ug/L	P425700	
		Tolfenpyrad	0.0020	U	ug/L	P425700	
		Triclopyr	0.0040	U	ug/L	P425700	
2386376	EPA 8270E	Aldrin	0.65	U	ng/L	P425594	
		Alpha-BHC	0.10	U	ng/L	P425594	
		Alpha-Chlordane	0.20	U	ng/L	P425594	MS
		PCB-1016	2.0	U	ng/L	P425594	
		Beta-BHC	0.10	U	ng/L	P425594	
		PCB-1221	2.0	U	ng/L	P425594	
		Beta-Cyfluthrin	1.3	U	ng/L	P425594	
		PCB-1232	2.0	U	ng/L	P425594	
		Bifenthrin	0.50	U	ng/L	P425594	
		PCB-1242	2.0	U	ng/L	P425594	
		PCB-1248	2.0	U	ng/L	P425594	
		Chlorothalonil	3.6	U	ng/L	P425594	
		PCB-1254	2.0	U	ng/L	P425594	
		Cis-Nonachlor	0.20	U	ng/L	P425594	
		PCB-1260	2.0	U	ng/L	P425594	
		Cypermethrin	1.5	U	ng/L	P425594	
		Dacthal	0.15	U	ng/L	P425594	
		DDD-p,p'	0.25	U	ng/L	P425594	MS
		DDE-p,p'	0.20	U	ng/L	P425594	MS
		DDT-p,p'	0.25	U	ng/L	P425594	
		Delta-BHC	0.40	U	ng/L	P425594	
		Deltamethrin	1.3	U	ng/L	P425594	
		Dichlobenil	0.25	U	ng/L	P425594	
		Dicofol	1.3	U	ng/L	P425594	
		Dieldrin	0.40	U	ng/L	P425594	
		Endosulfan I	0.40	U	ng/L	P425594	
		Endosulfan II	0.40	U	ng/L	P425594	
		Endosulfan Sulfate	0.30	U	ng/L	P425594	
		Endrin	0.40	U	ng/L	P425594	MS
		Endrin Aldehyde	0.75	U	ng/L	P425594	
		Endrin Ketone	0.40	U	ng/L	P425594	
		Esfenvalerate	0.75	U	ng/L	P425594	
		Ethalfuralin	0.15	U	ng/L	P425594	

Field ID: G4SE0147

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2386376	EPA 8270E	Fenpropathrin	0.25	U	ng/L	P425594	
		Gamma-BHC	0.13	U	ng/L	P425594	
		Gamma-Chlordane	0.20	U	ng/L	P425594	
		Heptachlor	0.20	U	ng/L	P425594	
		Heptachlor Epoxide	0.25	U	ng/L	P425594	
		Hexachlorobenzene**	1.0	U	ng/L	P425594	
		Kepone	5.0	U	ng/L	P425594	
		Lambda-Cyhalothrin	0.75	U	ng/L	P425594	
		Methoprene	0.75	U	ng/L	P425594	MS
		Methoxychlor	0.30	U	ng/L	P425594	
		MGK-264	0.20	U	ng/L	P425594	
		Mirex	0.35	U	ng/L	P425594	
		Oxychlordane	0.30	U	ng/L	P425594	
		Permethrin	1.6	U	ng/L	P425594	
		Phenothrin	0.90	U	ng/L	P425594	
		Piperonyl Butoxide	0.60	I	ng/L	P425594	
		Prallethrin	2.0	U	ng/L	P425594	MS
		Tau-Fluvalinate	0.25	U	ng/L	P425594	
		Tetramethrin	0.75	U	ng/L	P425594	
		Trans-Nonachlor	0.20	U	ng/L	P425594	
		Triclosan Methyl	0.15	U	ng/L	P425594	
		Trifluralin	0.20	U	ng/L	P425594	
		Chlordane	2.0	U	ng/L	P425594	
		Toxaphene	15	U	ng/L	P425594	
2386377	EPA 8270E	Oxybenzone**	9.7	U	ng/L	P425530	
		Acetochlor	0.24	U	ng/L	P425530	
		Octinoxate**	19	U	ng/L	P425530	
		Alachlor	0.24	U	ng/L	P425530	
		Avobenzone**	97	U	ng/L	P425530	
		Ametryn	0.81	I	ng/L	P425530	
		Atrazine	26		ng/L	P425530	
		PBDE-47**	3.9	U	ng/L	P425530	
		Atrazine Desethyl	3.7	I	ng/L	P425530	
		PBDE-99**	4.9	U	ng/L	P425530	
		Azinphos Methyl	1.9	U	ng/L	P425530	
		Tri-o-cresyl Phosphate**	5.8	U	ng/L	P425530	
		Azoxystrobin	5.6		ng/L	P425530	
		Bromacil	0.49	U	ng/L	P425530	
		2-Ethylhexyl	12	U	ng/L	P425530	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.39	U	ng/L	P425530	
		Dechlorane Plus**	29	U	ng/L	P425530	RPD
		Caffeine**	9.4	I	ng/L	P425530	
		Carbophenothion	0.19	U	ng/L	P425530	
		Carfentrazone Ethyl	0.097	U	ng/L	P425530	

Field ID: G4SE0147

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2386377	EPA 8270E	Chlorfenapyr	0.17	U	ng/L	P425530	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P425530	
		Chlorpyrifos Methyl	0.049	U	ng/L	P425530	
		Coumaphos	0.49	U	ng/L	P425530	RPD
		Cyanazine	3.2	UJ	ng/L	P425530	LCS, MS
		Cyprodinil	0.34	I	ng/L	P425530	
		Demeton	1.5	U	ng/L	P425530	
		Diazinon	0.12	U	ng/L	P425530	
		Difenoconazole	0.58	U	ng/L	P425530	RPD
		Dimethenamid	0.097	U	ng/L	P425530	MS, RPD
		Dimethomorph	1.4		ng/L	P425530	
		Disulfoton	0.49	U	ng/L	P425530	
		Dithiopyr	0.61	U	ng/L	P425530	
		EPTC	1.2	U	ng/L	P425530	
		Ethion	0.15	U	ng/L	P425530	MS, RPD
		Ethoprop	0.097	U	ng/L	P425530	
		Etridiazole	0.15	U	ng/L	P425530	RPD
		Fenamiphos	0.49	U	ng/L	P425530	
		Fenbuconazole	0.12	U	ng/L	P425530	
		Fipronil	0.27	I	ng/L	P425530	
		Fipronil Desulfinyl**	0.24	I	ng/L	P425530	
		Fipronil Sulfide	0.23	I	ng/L	P425530	
		Fipronil Sulfone	0.47	I	ng/L	P425530	
		Fluazifop-P-butyl	0.097	U	ng/L	P425530	
		Fludioxonil	0.12	U	ng/L	P425530	
		Flumioxazin	4.4	U	ng/L	P425530	RPD
		Flutolanil	0.57		ng/L	P425530	
		Fluxapyroxad	0.52		ng/L	P425530	MS, RPD
		Fonofos	0.19	U	ng/L	P425530	
		Hexazinone	0.96	I	ng/L	P425530	
		Imazalil	0.73	U	ng/L	P425530	
		Iprodione	0.58	U	ng/L	P425530	
		Loratadine**	0.34	UJ	ng/L	P425530	LCS
		Malathion	0.34	U	ng/L	P425530	
		Metalaxyl	1.8	I	ng/L	P425530	
		Metolachlor	1.2	I	ng/L	P425530	
		Metribuzin	1.5	U	ng/L	P425530	
		Mevinphos	1.0	U	ng/L	P425530	
		Molinate	0.29	U	ng/L	P425530	
		Myclobutanil	0.35	I	ng/L	P425530	
		Naled	1.5	U	ng/L	P425530	
		Napropamide	0.39	U	ng/L	P425530	MS, RPD
		Norflurazon	0.49	U	ng/L	P425530	
		Oxadiazon	4.5		ng/L	P425530	
		Oxyfluorfen	0.15	U	ng/L	P425530	

Field ID: G4SE0147

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2386377	EPA 8270E	Parathion Ethyl	0.24	U	ng/L	P425530	
		Parathion Methyl	0.54	U	ng/L	P425530	
		Pendimethalin	0.97	U	ng/L	P425530	
		Phenytion**	3.4	UJ	ng/L	P425530	LCS
		Phorate	0.51	U	ng/L	P425530	
		Prodiamine	0.17	U	ng/L	P425530	
		Prometon	0.88	U	ng/L	P425530	
		Prometryn	0.19	U	ng/L	P425530	
		Pronamide	0.15	U	ng/L	P425530	
		Propanil	0.12	U	ng/L	P425530	
		Propargite	1.5	U	ng/L	P425530	
		Propiconazole	1.0	I	ng/L	P425530	
		Pyraflufen Ethyl	0.24	U	ng/L	P425530	
		Pyridaben	0.44	U	ng/L	P425530	
		Pyriproxyfen	0.12	U	ng/L	P425530	
		Simazine	0.49	U	ng/L	P425530	
		Stirophos	0.12	U	ng/L	P425530	
		Sulfentrazone	12		ng/L	P425530	
		Tebuconazole	0.73	I	ng/L	P425530	MS, RPD
		Terbufos	0.097	U	ng/L	P425530	
		Terbuthylazine	0.41	U	ng/L	P425530	
		Thiobencarb	0.58	U	ng/L	P425530	
		Triadimefon	0.24	U	ng/L	P425530	

Ref. Method and Comment:

EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.

EPA 8321B: Some MDLs are elevated due to required dilution of sample matrix. Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8270E: MS accuracy for atrazine and atrazine desethyl 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: FB

Collection Date/Time: 02/08/2023 12:00

Field ID: FB_02082023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2386361	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P425619	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P425616	
	EPA 300.0 Rev. 2.1	Chloride	1.5		mg Cl/L	P426057	
		Sulfate	0.20	U	mg SO4/L	P426060	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P426048	
	SM 2540 C-2015	TDS	15	U	mg/L	P426111	
	SM 2540 D-2015	TSS	2	U	mg/L	P426004	
	SM 4500-F- C-2011	Fluoride	0.31		mg F/L	P426052	
2386362	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P426102	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P425803	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P425777	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P426346	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P425801	
2386374	EPA 8321B	Aldicarb	0.020	U	ug/L	P425593	
		Aldicarb Sulfone	0.0020	U	ug/L	P425593	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P425593	
		Carbaryl	0.0020	U	ug/L	P425593	
		Carbofuran	0.0020	U	ug/L	P425593	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P425593	
		Methiocarb	0.0020	U	ug/L	P425593	
		Methomyl	0.0020	U	ug/L	P425593	
		Oxamyl	0.0020	U	ug/L	P425593	
		Propoxur	0.0020	U	ug/L	P425593	
2386375		2,4-D	0.0020	U	ug/L	P425700	
		Acesulfame K	0.10	U	ug/L	P425585	
		2,4,5-T	0.0040	U	ug/L	P425700	
		AMPA	0.10	U	ug/L	P425585	
		Acetaminophen	0.0080	U	ug/L	P425700	
		Acetamiprid	0.0020	U	ug/L	P425700	
		Endothall	0.25	U	ug/L	P425585	MS
		Glufosinate	0.10	U	ug/L	P425585	
		Glyphosate	0.10	U	ug/L	P425585	
		Afidopyropen	0.0020	U	ug/L	P425700	
		Bentazon	8.0E-04	U	ug/L	P425700	
		Sucralose	0.010	U	ug/L	P425585	
		Benzovindiflupyr	0.0020	U	ug/L	P425700	
		Carbamazepine	8.0E-04	U	ug/L	P425700	
		Clothianidin	0.0020	U	ug/L	P425700	
		Dinotefuran	0.0020	U	ug/L	P425700	
		Diuron	0.0020	U	ug/L	P425700	
		Fenuron	0.032	U	ug/L	P425700	
		Fluridone	8.0E-04	U	ug/L	P425700	
		Imazapyr	0.0040	U	ug/L	P425700	
		Hydrocodone	0.0020	U	ug/L	P425700	

Field ID: FB_02082023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2386375	EPA 8321B	Ibuprofen	0.080	U	ug/L	P425700	
		Imidacloprid	0.0020	U	ug/L	P425700	
		Linuron	0.0040	U	ug/L	P425700	
		Mandestrobin	0.0020	U	ug/L	P425700	
		MCP	0.0020	U	ug/L	P425700	
		Naproxen	0.0080	U	ug/L	P425700	
		Primidone	0.0040	U	ug/L	P425700	
		Pyraclostrobin	0.0020	U	ug/L	P425700	
		Silvex	0.0040	U	ug/L	P425700	
		Thiamethoxam	0.0020	U	ug/L	P425700	
		Tolfenpyrad	0.0020	U	ug/L	P425700	
		Triclopyr	0.0040	U	ug/L	P425700	
2386378	EPA 8270E	Aldrin	0.72	U	ng/L	P425594	
		Alpha-BHC	0.11	U	ng/L	P425594	
		Alpha-Chlordane	0.22	U	ng/L	P425594	MS
		PCB-1016	2.2	U	ng/L	P425594	
		Beta-BHC	0.11	U	ng/L	P425594	
		PCB-1221	2.2	U	ng/L	P425594	
		Beta-Cyfluthrin	1.4	U	ng/L	P425594	
		PCB-1232	2.2	U	ng/L	P425594	
		Bifenthrin	0.55	U	ng/L	P425594	
		PCB-1242	2.2	U	ng/L	P425594	
		PCB-1248	2.2	U	ng/L	P425594	
		Chlorothalonil	4.0	U	ng/L	P425594	
		PCB-1254	2.2	U	ng/L	P425594	
		Cis-Nonachlor	0.22	U	ng/L	P425594	
		PCB-1260	2.2	U	ng/L	P425594	
		Cypermethrin	1.7	U	ng/L	P425594	
		Dacthal	0.17	U	ng/L	P425594	
		DDD-p,p'	0.28	U	ng/L	P425594	MS
		DDE-p,p'	0.22	U	ng/L	P425594	MS
		DDT-p,p'	0.28	U	ng/L	P425594	
		Delta-BHC	0.44	U	ng/L	P425594	
		Deltamethrin	1.4	U	ng/L	P425594	
		Dichlobenil	0.28	U	ng/L	P425594	
		Dicofol	1.4	U	ng/L	P425594	
		Dieldrin	0.44	U	ng/L	P425594	
		Endosulfan I	0.44	U	ng/L	P425594	
		Endosulfan II	0.44	U	ng/L	P425594	
		Endosulfan Sulfate	0.33	U	ng/L	P425594	
		Endrin	0.44	U	ng/L	P425594	MS
		Endrin Aldehyde	0.83	U	ng/L	P425594	
		Endrin Ketone	0.44	U	ng/L	P425594	
		Esfenvalerate	0.83	U	ng/L	P425594	
		Ethalfuralin	0.17	U	ng/L	P425594	

Field ID: FB_02082023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2386378	EPA 8270E	Fenpropathrin	0.28	U	ng/L	P425594	
		Gamma-BHC	0.14	U	ng/L	P425594	
		Gamma-Chlordane	0.22	U	ng/L	P425594	
		Heptachlor	0.22	U	ng/L	P425594	
		Heptachlor Epoxide	0.28	U	ng/L	P425594	
		Hexachlorobenzene**	1.1	U	ng/L	P425594	
		Kepone	5.5	U	ng/L	P425594	
		Lambda-Cyhalothrin	0.83	U	ng/L	P425594	
		Methoprene	0.83	U	ng/L	P425594	MS
		Methoxychlor	0.33	U	ng/L	P425594	
		MGK-264	0.22	U	ng/L	P425594	
		Mirex	0.39	U	ng/L	P425594	
		Oxychlordane	0.33	U	ng/L	P425594	
		Permethrin	1.8	U	ng/L	P425594	
		Phenothrin	1.0	U	ng/L	P425594	
		Piperonyl Butoxide	0.17	U	ng/L	P425594	
		Prallethrin	2.2	U	ng/L	P425594	MS
		Tau-Fluvalinate	0.28	U	ng/L	P425594	
		Tetramethrin	0.83	U	ng/L	P425594	
		Trans-Nonachlor	0.22	U	ng/L	P425594	
		Triclosan Methyl	0.17	U	ng/L	P425594	
		Trifluralin	0.22	U	ng/L	P425594	
		Chlordane	2.2	U	ng/L	P425594	
		Toxaphene	17	U	ng/L	P425594	
2386379	EPA 8270E	Oxybenzone**	10	U	ng/L	P425530	
		Acetochlor	0.26	U	ng/L	P425530	
		Octinoxate**	21	U	ng/L	P425530	
		Alachlor	0.26	U	ng/L	P425530	
		Avobenzone**	100	U	ng/L	P425530	
		Ametryn	0.62	U	ng/L	P425530	
		Atrazine	0.26	U	ng/L	P425530	
		PBDE-47**	4.1	U	ng/L	P425530	
		Atrazine Desethyl	1.5	U	ng/L	P425530	
		PBDE-99**	5.2	U	ng/L	P425530	
		Azinphos Methyl	2.1	U	ng/L	P425530	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P425530	
		Azoxystrobin	0.52	U	ng/L	P425530	
		Bromacil	0.52	U	ng/L	P425530	
		2-Ethylhexyl	12	U	ng/L	P425530	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.41	U	ng/L	P425530	
		Dechlorane Plus**	31	U	ng/L	P425530	RPD
		Caffeine**	7.7	U	ng/L	P425530	
		Carbophenothion	0.21	U	ng/L	P425530	
		Carfentrazone Ethyl	0.10	U	ng/L	P425530	

Field ID: FB_02082023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2386379	EPA 8270E	Chlorfenapyr	0.18	U	ng/L	P425530	
		Chlorpyrifos Ethyl	0.26	U	ng/L	P425530	
		Chlorpyrifos Methyl	0.052	U	ng/L	P425530	
		Coumaphos	0.52	U	ng/L	P425530	RPD
		Cyanazine	3.4	UJ	ng/L	P425530	LCS, MS
		Cyprodinil	0.10	U	ng/L	P425530	
		Demeton	1.5	U	ng/L	P425530	
		Diazinon	0.13	U	ng/L	P425530	
		Difenoconazole	0.62	U	ng/L	P425530	RPD
		Dimethenamid	0.10	U	ng/L	P425530	MS, RPD
		Dimethomorph	0.18	U	ng/L	P425530	
		Disulfoton	0.52	U	ng/L	P425530	
		Dithiopyr	0.65	U	ng/L	P425530	
		EPTC	1.3	U	ng/L	P425530	
		Ethion	0.15	U	ng/L	P425530	MS, RPD
		Ethoprop	0.10	U	ng/L	P425530	
		Etridiazole	0.15	U	ng/L	P425530	RPD
		Fenamiphos	0.52	U	ng/L	P425530	
		Fenbuconazole	0.13	U	ng/L	P425530	
		Fipronil	0.26	U	ng/L	P425530	
		Fipronil Desulfinyl**	0.13	U	ng/L	P425530	
		Fipronil Sulfide	0.15	U	ng/L	P425530	
		Fipronil Sulfone	0.15	U	ng/L	P425530	
		Fluazifop-P-butyl	0.10	U	ng/L	P425530	
		Fludioxonil	0.13	U	ng/L	P425530	
		Flumioxazin	4.6	U	ng/L	P425530	RPD
		Flutolanil	0.10	U	ng/L	P425530	
		Fluxapyroxad	0.10	U	ng/L	P425530	MS, RPD
		Fonofos	0.21	U	ng/L	P425530	
		Hexazinone	0.52	U	ng/L	P425530	
		Imazalil	0.77	U	ng/L	P425530	
		Iprodione	0.62	U	ng/L	P425530	
		Loratadine**	0.36	UJ	ng/L	P425530	LCS
		Malathion	0.36	U	ng/L	P425530	
		Metalaxyl	0.77	U	ng/L	P425530	
		Metolachlor	0.36	U	ng/L	P425530	
		Metribuzin	1.5	U	ng/L	P425530	
		Mevinphos	1.1	U	ng/L	P425530	
		Molinate	0.31	U	ng/L	P425530	
		Myclobutanil	0.26	U	ng/L	P425530	
		Naled	1.5	U	ng/L	P425530	
		Napropamide	0.41	U	ng/L	P425530	MS, RPD
		Norflurazon	0.52	U	ng/L	P425530	
		Oxadiazon	0.31	U	ng/L	P425530	
		Oxyfluorfen	0.15	U	ng/L	P425530	

Field ID: FB_02082023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2386379	EPA 8270E	Parathion Ethyl	0.26	U	ng/L	P425530	LCS
		Parathion Methyl	0.57	U	ng/L	P425530	
		Pendimethalin	1.0	U	ng/L	P425530	
		Phenytion**	3.6	UJ	ng/L	P425530	
		Phorate	0.54	U	ng/L	P425530	
		Prodiamine	0.18	U	ng/L	P425530	
		Prometon	0.93	U	ng/L	P425530	
		Prometryn	0.21	U	ng/L	P425530	
		Pronamide	0.15	U	ng/L	P425530	
		Propanil	0.13	U	ng/L	P425530	
		Propargite	1.5	U	ng/L	P425530	
		Propiconazole	0.52	U	ng/L	P425530	
		Pyraflufen Ethyl	0.26	U	ng/L	P425530	
		Pyridaben	0.46	U	ng/L	P425530	
		Pyriproxyfen	0.13	U	ng/L	P425530	
		Simazine	0.52	U	ng/L	P425530	
		Stirophos	0.13	U	ng/L	P425530	
		Sulfentrazone	0.52	U	ng/L	P425530	MS, RPD
		Tebuconazole	0.52	U	ng/L	P425530	
		Terbufos	0.10	U	ng/L	P425530	
		Terbuthylazine	0.44	U	ng/L	P425530	
		Thiobencarb	0.62	U	ng/L	P425530	
		Triadimefon	0.26	U	ng/L	P425530	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Chloride: The result was confirmed on 02/22/2023.

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

SM 4500-F- C-2011: The result was confirmed on 02/22/2023.

EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.

EPA 8270E: MS accuracy for atrazine and atrazine desethyl 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: ICWW @ Alsdorf Public Park

Collection Date/Time: 02/08/2023 11:05

Field ID: G4SE0148

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2386355	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P425619	
	EPA 180.1 Rev. 2.0	Turbidity	0.50	I	NTU	P425616	
	EPA 300.0 Rev. 2.1	Chloride	1.6E+04		mg Cl/L	P426057	
		Sulfate	2.3E+03		mg SO4/L	P426060	
	SM 2320 B-2011	Total Alkalinity	126		mg CaCO3/L	P425908	
	SM 2540 C-2015	TDS	2.78E+04		mg/L	P426112	
	SM 2540 D-2015	TSS	3	U	mg/L	P426007	
	SM 4500-F- C-2011	Fluoride	1.1		mg F/L	P425910	
	2386356	EPA 350.1 Rev. 2.0	Ammonia-N	0.022		mg N/L	P426155
		EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.23	I	mg N/L	P425808
		EPA 353.2 Rev. 2.0	NO2NO3-N	0.034		mg N/L	P426009
		EPA 365.1 Rev. 2.0	Total-P	0.018		mg P/L	P425733
	SM 5310 B-2011	Organic Carbon	3.9	I	mg C/L	P425802	

Sample Location: E-4 @ Clint Moore

Collection Date/Time: 02/08/2023 12:30

Field ID: G3SE0019

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2386357	DEP SOP: NU-094-1	Color (true)	73		PCU	P425619	
	EPA 180.1 Rev. 2.0	Turbidity	2.4	A	NTU	P425616	
	EPA 300.0 Rev. 2.1	Chloride	43		mg Cl/L	P426057	
		Sulfate	9.4		mg SO4/L	P426060	
	SM 2320 B-2011	Total Alkalinity	165		mg CaCO3/L	P426048	
	SM 2540 C-2015	TDS	285		mg/L	P426111	
	SM 2540 D-2015	TSS	5	I	mg/L	P426004	
	SM 4500-F- C-2011	Fluoride	0.14		mg F/L	P426052	
2386358	EPA 350.1 Rev. 2.0	Ammonia-N	0.23		mg N/L	P426102	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P425804	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.18		mg N/L	P425777	
	EPA 365.1 Rev. 2.0	Total-P	0.14		mg P/L	P425763	
	SM 5310 B-2011	Organic Carbon	13		mg C/L	P425801	

Ref. Method and Comment:

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P425619

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P425615

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P425616

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426057

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426060

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425979

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426102

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426155

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425803

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425804

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425808

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425809

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425777

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426009

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425733

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425763

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426346

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

Reference Method: EPA 8270E
Batch ID: P425530

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P425530

Component	Result	Code	Units
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
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
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	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	0.62	U	ng/L
Dithiopyr	0.62	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P425530

Component	Result	Code	Units
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
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	4.5	U	ng/L
Flumioxazin	4.5	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	0.35	U	ng/L
Loratadine	0.35	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	1.5	U	ng/L
Metribuzin	1.5	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P425530

Component	Result	Code	Units
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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P425530

Component	Result	Code	Units
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
Terbuthylazine	0.42	U	ng/L
Terbuthylazine	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

Reference Method: EPA 8270E

Batch ID: P425594

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P425594

Component	Result	Code	Units
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P425594

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

Reference Method: EPA 8276

Batch ID: P425594

Component	Result	Code	Units
Chlordane	2.0	U	ng/L
Chlordane	2.0	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: EPA 8321B

Batch ID: P425585

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

Reference Method: EPA 8321B

Batch ID: P425593

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P425593

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

Reference Method: EPA 8321B

Batch ID: P425700

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

Reference Method: SM 2320 B-2011

Batch ID: P425908

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

Quality Assurance Report Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P426048

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

Reference Method: SM 2540 C-2015
Batch ID: P426111

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2015
Batch ID: P426112

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P426004

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P426007

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P425910

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P426052

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P425801

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

Reference Method: SM 5310 B-2011
Batch ID: P425802

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P425619

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	107		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P425615

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P425616

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426057

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	97.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426060

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425979

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426102

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426155

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.2		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425803

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425804

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425808

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425809

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	97.5		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425777

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	104		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426009

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425733

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	96.4		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425763

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426346

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

Reference Method: EPA 8270E
Batch ID: P425530

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	75.9		P	42 - 162
Acetochlor	95.1		P	67 - 124
Alachlor	89.5		P	60 - 120
Ametryn	100		P	54 - 216

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P425530

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Atrazine	97.7		P	66 - 128
Atrazine Desethyl	103		P	15 - 122
Avobenzone	91.1		P	40 - 203
Azinphos Methyl	121		P	40 - 292
Azoxystrobin	113		P	35 - 220
Bromacil	95.0		P	45 - 127
Butylate	62.6		P	20 - 83.0
Caffeine	78.5		P	10 - 194
Carbophenothion	113		P	57 - 127
Carfentrazone Ethyl	117		P	51 - 141
Chlorfenapyr	96.8		P	46 - 111
Chlorpyrifos Ethyl	91.5		P	52 - 120
Chlorpyrifos Methyl	110		P	63 - 119
Coumaphos	105		P	10 - 228
Cyanazine	323		F	59 - 241
Cyprodinil	120		P	47 - 146
Dechlorane Plus	84.3		P	47 - 182
Demeton	89.3		P	40 - 136
Diazinon	97.5		P	69 - 132
Difenoconazole	124		P	57 - 258
Dimethenamid	79.8		P	54 - 110
Dimethomorph	173		P	28 - 210
Disulfoton	102		P	43 - 133
Dithiopyr	96.4		P	39 - 116
EPTC	61.0		P	20 - 78.0
Ethion	37.7		P	17 - 119
Ethoprop	93.9		P	66 - 120
Etridiazole	70.0		P	28 - 96.0
Fenamiphos	96.8		P	41 - 126
Fenbuconazole	110		P	42 - 169
Fipronil	123		P	61 - 132
Fipronil Desulfinyl	116		P	56 - 132
Fipronil Sulfide	93.8		P	48 - 119
Fipronil Sulfone	112		P	42 - 131
Fluazifop-P-butyl	99.6		P	53 - 131
Fludioxonil	99.2		P	56 - 127
Flumioxazin	119		P	19 - 300
Flutolanil	105		P	41 - 127
Fluxapyroxad	77.3		P	42 - 172
Fonofos	90.5		P	59 - 113
Hexazinone	87.2		P	66 - 122
Imazalil	85.1		P	21 - 283
Iprodione	109		P	43 - 150
Loratadine	203		F	23 - 201
Malathion	91.1		P	58 - 136
Metalaxyl	103		P	55 - 120
Metolachlor	97.8		P	57 - 121
Metribuzin	103		P	58 - 294
Mevinphos	81.4		P	50 - 126
Molinate	70.9		P	42 - 93.0
Myclobutanil	94.4		P	55 - 125
Naled	111		P	18 - 200

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P425530

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Napropamide	65.5		P	39 - 110
Norflurazon	95.1		P	48 - 128
Octinoxate	73.4		P	26 - 166
Oxadiazon	93.9		P	43 - 112
Oxybenzone	69.3		P	49 - 135
Oxyfluorfen	113		P	64 - 153
Parathion Ethyl	84.5		P	69 - 114
Parathion Methyl	106		P	79 - 139
PBDE-47	70.0		P	41 - 148
PBDE-99	68.4		P	38 - 147
Pendimethalin	87.6		P	50 - 139
Phenytol	4.28		F	10 - 146
Phorate	95.7		P	54 - 161
Proflaminate	42.3		P	30 - 161
Prometon	85.0		P	45 - 134
Prometryn	92.4		P	45 - 137
Pronamide	90.0		P	65 - 133
Propanil	93.7		P	49 - 142
Propargite	63.5		P	10 - 203
Propiconazole	105		P	38 - 146
Pyraflufen Ethyl	106		P	34 - 153
Pyridaben	134		P	12 - 192
Pyriproxyfen	74.6		P	33 - 180
Simazine	91.7		P	51 - 157
Stiophos	66.1		P	10 - 128
Sulfentrazone	69.1		P	53 - 186
Tebuconazole	46.1		P	10 - 133
Terbufos	111		P	65 - 139
Terbutylazine	82.1		P	66 - 117
Thiobencarb	80.0		P	51 - 119
Tri-o-cresyl Phosphate	71.7		P	49 - 150
Triadimefon	81.6		P	48 - 119

Reference Method: EPA 8270E

Batch ID: P425594

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	61.7		P	10 - 92.0
Alpha-BHC	90.2		P	75 - 107
Alpha-Chlordane	105		P	50 - 108
Beta-BHC	114		P	36 - 138
Beta-Cyfluthrin	88.2		P	20 - 161
Bifenthrin	72.8		P	10 - 119
Chlorothalonil	120		P	26 - 186
Cis-Nonachlor	74.4		P	42 - 119
Cypermethrin	59.0		P	22 - 150
Dacthal	92.3		P	72 - 119
DDD-p,p'	99.8		P	45 - 107
DDE-p,p'	102		P	48 - 106
DDT-p,p'	75.8		P	48 - 110
Delta-BHC	111		P	54 - 140
Deltamethrin	79.8		P	22 - 189

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P425594

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dichlobenil	88.5		P	36 - 117
Dicofol	87.2		P	46 - 155
Dieldrin	103		P	54 - 110
Endosulfan I	91.8		P	59 - 105
Endosulfan II	115		P	51 - 118
Endosulfan Sulfate	114		P	57 - 121
Endrin	106		P	10 - 120
Endrin Aldehyde	71.7		P	34 - 118
Endrin Ketone	75.2		P	69 - 177
Esfenvalerate	98.1		P	23 - 168
Ethalfuralin	82.5		P	49 - 99.0
Fenpropathrin	73.8		P	34 - 117
Gamma-BHC	84.7		P	72 - 117
Gamma-Chlordane	75.9		P	43 - 106
Heptachlor	80.0		P	41 - 98.0
Heptachlor Epoxide	92.4		P	57 - 106
Hexachlorobenzene	85.4		P	36 - 99.0
Kepone	183		P	16 - 215
Lambda-Cyhalothrin	72.2		P	21 - 177
Methoprene	96.8		P	10 - 119
Methoxychlor	88.5		P	60 - 112
MGK-264	92.9		P	26 - 122
Mirex	63.5		P	10 - 169
Oxychlordane	89.8		P	43 - 105
PCB-1016	90.0		P	48 - 112
PCB-1260	83.9		P	44 - 118
Permethrin	118		P	24 - 148
Phenothrin	65.3		P	10 - 106
Piperonyl Butoxide	116		P	10 - 139
Prallethrin	109		P	17 - 109
Tau-Fluvalinate	81.5		P	13 - 131
Tetramethrin	112		P	10 - 132
Trans-Nonachlor	88.9		P	44 - 106
Triclosan Methyl	86.2		P	59 - 109
Trifluralin	85.9		P	44 - 101

Reference Method: EPA 8276

Batch ID: P425594

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	110		P	53 - 126
Toxaphene	128		P	56 - 211

Reference Method: EPA 8321B

Batch ID: P425585

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	96.2		P	40 - 150
AMPA	99.0		P	40 - 150
Endothall	98.4		P	40 - 150
Glufosinate	99.2		P	40 - 150
Glyphosate	98.5		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P425585

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	96.7		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P425593

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	99.3		P	40 - 150
Aldicarb	49.5		P	30 - 150
Aldicarb Sulfone	105		P	40 - 150
Aldicarb Sulfoxide	110		P	40 - 150
Carbaryl	75.1		P	40 - 150
Carbofuran	97.0		P	40 - 150
Methiocarb	63.7		P	40 - 150
Methomyl	107		P	40 - 150
Oxamyl	118		P	40 - 150
Propoxur	73.8		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P425700

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	84.5		P	40 - 150
2,4,5-T	72.1		P	40 - 150
Acetaminophen	87.3		P	30 - 150
Acetamiprid	85.7		P	40 - 150
Afidopyropen	73.1		P	30 - 150
Bentazon	106		P	30 - 150
Benzovindiflupyr	80.5		P	40 - 150
Carbamazepine	82.0		P	40 - 150
Clothianidin	91.5		P	40 - 150
Dinotefuran	95.5		P	40 - 150
Diuron	72.3		P	40 - 150
Fenuron	91.7		P	40 - 150
Fluridone	79.0		P	40 - 150
Hydrocodone	75.8		P	40 - 150
Ibuprofen	84.7		P	40 - 150
Imazapyr	80.8		P	40 - 150
Imidacloprid	84.6		P	40 - 150
Linuron	69.1		P	40 - 150
Mandestrobin	85.9		P	40 - 150
MCPP	88.3		P	40 - 150
Naproxen	66.2		P	40 - 150
Primidone	77.7		P	40 - 150
Pyraclostrobin	75.3		P	40 - 150
Silvex	76.8		P	40 - 150
Thiamethoxam	84.6		P	40 - 150
Tolfenpyrad	51.6		P	30 - 150
Triclopyr	68.8		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P425908

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.3		P	94 - 106

Reference Method: SM 2320 B-2011
Batch ID: P426048

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.5		P	94 - 106

Reference Method: SM 2540 C-2015
Batch ID: P426111

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	98.9		P	90 - 110

Reference Method: SM 2540 C-2015
Batch ID: P426112

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	95.3		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P426004

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	96.5		P	85 - 106

Reference Method: SM 2540 D-2015
Batch ID: P426007

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	94.0		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P425910

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.0		P	96 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P426052

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

Reference Method: SM 5310 B-2011
Batch ID: P425801

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.9		P	85 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P425802

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426057

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2386403	Chloride	102		P	90 - 110
2386452	Chloride	93.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426060

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2386403	Sulfate	102		P	90 - 110
2386452	Sulfate	93.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425979

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2386360	Ammonia-N	97.2	97.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426102

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2385100	Ammonia-N	97.2	98.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426155

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2386977	Ammonia-N	99.0	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425803

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2386272	Kjeldahl Nitrogen	93.8	98.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425804

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2386363	Kjeldahl Nitrogen	98.2	105	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425808

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2386116	Kjeldahl Nitrogen	97.2	96.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425809

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2386461	Kjeldahl Nitrogen	98.7	91.4	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425777

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2386303	NO2NO3-N	104	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426009

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2386356	NO2NO3-N	104	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425733

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2386354	Total-P	93.3	92.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425763

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2386651	Total-P	100	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426346

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2387751	Total-P	100	102	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P425530

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2385305	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	57.0	72.2	P/P	26 - 165
2385305	Acetochlor	88.6	83.2	P/P	67 - 124
2385305	Alachlor	81.8	75.4	P/P	60 - 120
2385305	Ametryn	122	87.7	P/P	54 - 216
2385305	Avobenzone	72.6	81.7	P/P	37 - 178
2385305	Azinphos Methyl	120	111	P/P	40 - 292
2385305	Azoxystrobin	136	112	P/P	35 - 220
2385305	Bromacil	79.4	83.6	P/P	45 - 127
2385305	Butylate	64.4	49.1	P/P	20 - 83.0
2385305	Caffeine	71.2	74.7	P/P	10 - 194
2385305	Carbophenothion	108	109	P/P	57 - 127
2385305	Carfentrazone Ethyl	101	89.5	P/P	51 - 141
2385305	Chlorfenapyr	86.9	69.1	P/P	46 - 111
2385305	Chlorpyrifos Ethyl	83.6	79.9	P/P	52 - 120
2385305	Chlorpyrifos Methyl	108	100	P/P	63 - 119
2385305	Coumaphos	49.7	72.0	P/P	10 - 228
2385305	Cyanazine	179	285	P/F	59 - 241
2385305	Cyprodinil	122	107	P/P	47 - 146
2385305	Dechlorane Plus	76.2	52.2	P/P	50 - 150
2385305	Demeton	121	101	P/P	40 - 136
2385305	Diazinon	99.7	94.4	P/P	69 - 132
2385305	Difenoconazole	77.4	156	P/P	57 - 258

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P425530

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2385305	Dimethenamid	51.5	78.5	F/P	54 - 110
2385305	Dimethomorph	208	191	P/P	28 - 210
2385305	Disulfoton	115	106	P/P	43 - 133
2385305	Dithiopyr	94.4	84.5	P/P	39 - 116
2385305	EPTC	69.3	48.1	P/P	20 - 78.0
2385305	Ethion	14.7	43.6	F/P	17 - 119
2385305	Ethoprop	107	94.6	P/P	66 - 120
2385305	Etridiazole	87.4	55.2	P/P	28 - 96.0
2385305	Fenamiphos	109	98.2	P/P	41 - 126
2385305	Fenbuconazole	82.2	102	P/P	42 - 169
2385305	Fipronil	120	113	P/P	61 - 132
2385305	Fipronil Desulfinyl	110	111	P/P	56 - 132
2385305	Fipronil Sulfide	99.1	93.9	P/P	48 - 119
2385305	Fipronil Sulfone	88.6	73.4	P/P	42 - 131
2385305	Fluazifop-P-butyl	93.7	89.2	P/P	53 - 131
2385305	Fludioxonil	99.5	81.7	P/P	56 - 127
2385305	Flumioxazin	82.6	157	P/P	19 - 300
2385305	Flutolanil	79.3	90.5	P/P	41 - 127
2385305	Fluxapyroxad	31.3	66.8	F/P	42 - 172
2385305	Fonofos	102	83.2	P/P	59 - 113
2385305	Hexazinone	78.9	90.1	P/P	66 - 122
2385305	Imazalil	127	113	P/P	21 - 283
2385305	Iprodione	67.2	89.2	P/P	43 - 150
2385305	Loratadine	175	195	P/P	23 - 201
2385305	Malathion	89.2	82.3	P/P	58 - 136
2385305	Metalaxyl	114	95.6	P/P	55 - 120
2385305	Metolachlor	84.8	83.5	P/P	57 - 121
2385305	Metribuzin	126	89.1	P/P	58 - 294
2385305	Mevinphos	89.0	77.5	P/P	50 - 126
2385305	Molinate	78.1	64.1	P/P	42 - 93.0
2385305	Myclobutanil	113	116	P/P	55 - 125
2385305	Naled	113	98.9	P/P	18 - 200
2385305	Napropamide	9.16	68.2	F/P	39 - 110
2385305	Norflurazon	81.2	89.8	P/P	48 - 128
2385305	Octinoxate	61.8	60.8	P/P	21 - 159
2385305	Oxadiazon	81.1	70.8	P/P	43 - 112
2385305	Oxybenzone	63.8	59.4	P/P	41 - 142
2385305	Oxyfluorfen	97.9	111	P/P	64 - 153
2385305	Parathion Ethyl	94.3	82.5	P/P	69 - 114
2385305	Parathion Methyl	112	122	P/P	79 - 139
2385305	PBDE-47	49.5	63.3	P/P	27 - 144
2385305	PBDE-99	48.6	64.0	P/P	18 - 150
2385305	Pendimethalin	105	112	P/P	50 - 139
2385305	Phenytoin	19.9	12.4	P/P	10 - 146
2385305	Phorate	110	86.7	P/P	54 - 161
2385305	Prodiamine	56.1	68.4	P/P	30 - 161
2385305	Prometon	75.3	77.0	P/P	45 - 134
2385305	Prometryn	96.0	81.7	P/P	45 - 137
2385305	Pronamide	96.8	90.9	P/P	65 - 133
2385305	Propanil	85.1	87.4	P/P	49 - 142
2385305	Propargite	37.8	57.6	P/P	10 - 203
2385305	Propiconazole	92.3	89.2	P/P	38 - 146

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P425530

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2385305	Pyraflufen Ethyl	86.1	85.5	P/P	34 - 153
2385305	Pyridaben	115	122	P/P	12 - 192
2385305	Pyriproxyfen	40.9	81.4	P/P	33 - 180
2385305	Simazine	119	103	P/P	51 - 157
2385305	Stirophos	40.8	61.3	P/P	10 - 128
2385305	Sulfentrazone	74.7	69.0	P/P	53 - 186
2385305	Tebuconazole	3.58	47.3	F/P	10 - 133
2385305	Terbufos	129	104	P/P	65 - 139
2385305	Terbuthylazine	89.9	69.0	P/P	66 - 117
2385305	Thiobencarb	75.6	71.9	P/P	51 - 119
2385305	Tri-o-cresyl Phosphate	62.9	60.2	P/P	31 - 144
2385305	Triadimefon	50.4	64.4	P/P	48 - 119

Reference Method: EPA 8270E

Batch ID: P425594

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2386475	Aldrin	53.2	59.6	P/P	20 - 82.0
2386475	Alpha-BHC	87.2	87.6	P/P	71 - 109
2386475	Alpha-Chlordane	108	113	F/F	42 - 106
2386475	Beta-BHC	130	134	P/P	69 - 180
2386475	Beta-Cyfluthrin	130	139	P/P	18 - 175
2386475	Bifenthrin	70.5	78.6	P/P	21 - 128
2386475	Chlorothalonil	111	122	P/P	10 - 300
2386475	Cis-Nonachlor	72.1	78.5	P/P	34 - 106
2386475	Cypermethrin	76.2	84.2	P/P	22 - 158
2386475	Dacthal	90.3	87.4	P/P	54 - 116
2386475	DDD-p,p'	118	114	F/F	34 - 107
2386475	DDE-p,p'	117	118	F/F	33 - 110
2386475	DDT-p,p'	76.6	78.1	P/P	50 - 122
2386475	Delta-BHC	129	131	P/P	77 - 193
2386475	Deltamethrin	139	117	P/P	10 - 195
2386475	Dichlobenil	70.0	63.7	P/P	25 - 113
2386475	Dicofol	84.1	90.6	P/P	38 - 247
2386475	Dieldrin	112	116	P/P	45 - 118
2386475	Endosulfan I	81.9	81.9	P/P	51 - 106
2386475	Endosulfan II	107	108	P/P	37 - 122
2386475	Endosulfan Sulfate	125	115	P/P	43 - 132
2386475	Endrin	116	120	F/F	29 - 101
2386475	Endrin Aldehyde	71.1	71.9	P/P	19 - 110
2386475	Endrin Ketone	80.3	83.1	P/P	60 - 140
2386475	Esfenvalerate	144	158	P/P	26 - 199
2386475	Ethalfuralin	84.5	84.9	P/P	45 - 99.0
2386475	Fenpropathrin	82.5	81.9	P/P	35 - 120
2386475	Gamma-BHC	76.8	78.8	P/P	63 - 128
2386475	Gamma-Chlordane	75.2	82.7	P/P	40 - 104
2386475	Heptachlor	68.2	72.7	P/P	36 - 97.0
2386475	Heptachlor Epoxide	81.3	79.9	P/P	49 - 184
2386475	Hexachlorobenzene	80.7	81.2	P/P	39 - 96.0
2386475	Kepone	180	182	P/P	10 - 217
2386475	Lambda-Cyhalothrin	94.6	100	P/P	21 - 193
2386475	Methoprene	116	122	F/F	20 - 106

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P425594

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2386475	Methoxychlor	86.4	93.0	P/P	53 - 118
2386475	MGK-264	76.4	82.6	P/P	40 - 118
2386475	Mirex	76.1	74.6	P/P	26 - 92.0
2386475	Oxychlordane	77.8	80.1	P/P	44 - 99.0
2386475	Permethrin	127	151	P/P	33 - 182
2386475	Phenothrin	84.6	93.8	P/P	10 - 129
2386475	Piperonyl Butoxide	109	109	P/P	10 - 211
2386475	Prallethrin	107	120	P/F	24 - 113
2386475	Tau-Fluvalinate	132	144	P/P	14 - 149
2386475	Tetramethrin	113	120	P/P	17 - 151
2386475	Trans-Nonachlor	80.1	84.1	P/P	42 - 102
2386475	Triclosan Methyl	83.5	86.1	P/P	48 - 108
2386475	Trifluralin	83.5	85.1	P/P	47 - 96.0
2386481	PCB-1016	85.6	88.5	P/P	46 - 111
2386481	PCB-1260	80.4	81.5	P/P	45 - 114

Reference Method: EPA 8276

Batch ID: P425594

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2386481	Chlordane	108	115	P/P	53 - 126
2386481	Toxaphene	120	136	P/P	56 - 211

Reference Method: EPA 8321B

Batch ID: P425585

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2386143	Acesulfame K	77.6	79.3	P/P	40 - 150
2386143	AMPA	95.2	101	P/P	40 - 150
2386143	Endothall	153	152	F/F	40 - 150
2386143	Glufosinate	117	116	P/P	40 - 150
2386143	Glyphosate	126	133	P/P	40 - 150
2386143	Sucralose	62.3	65.5	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P425593

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2386372	3-Hydroxycarbofuran	131	125	P/P	40 - 150
2386372	Aldicarb	60.5	58.5	P/P	30 - 150
2386372	Aldicarb Sulfone	108	110	P/P	40 - 150
2386372	Aldicarb Sulfoxide	76.9	73.3	P/P	40 - 150
2386372	Carbaryl	73.0	73.9	P/P	40 - 150
2386372	Carbofuran	86.0	83.1	P/P	40 - 150
2386372	Methiocarb	76.5	57.3	P/P	40 - 150
2386372	Methomyl	107	95.5	P/P	40 - 150
2386372	Oxamyl	124	112	P/P	40 - 150
2386372	Propoxur	63.4	60.4	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P425700

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2386373	2,4-D	99.3	104	P/P	40 - 150
2386373	2,4,5-T	86.0	86.9	P/P	40 - 150
2386373	Acetaminophen	101	106	P/P	30 - 150
2386373	Acetamiprid	102	95.7	P/P	40 - 150
2386373	Afidopyropen	60.6	77.7	P/P	30 - 150
2386373	Benzovindiflupyr	82.2	86.0	P/P	40 - 150
2386373	Carbamazepine	91.7	89.8	P/P	40 - 150
2386373	Clothianidin	99.0	106	P/P	40 - 150
2386373	Dinotefuran	106	114	P/P	40 - 150
2386373	Diuron	74.1	81.6	P/P	40 - 150
2386373	Fenuron	89.2	91.5	P/P	40 - 150
2386373	Fluridone	60.4	81.7	P/P	40 - 150
2386373	Hydrocodone	99.1	82.9	P/P	40 - 150
2386373	Ibuprofen	96.2	97.5	P/P	40 - 150
2386373	Imidacloprid	122	126	P/P	40 - 150
2386373	Linuron	72.5	70.7	P/P	40 - 150
2386373	Mandestrobin	90.6	88.9	P/P	40 - 150
2386373	MCPP	104	104	P/P	40 - 150
2386373	Naproxen	85.9	96.2	P/P	40 - 150
2386373	Primidone	94.1	85.5	P/P	40 - 150
2386373	Pyraclostrobin	84.2	87.7	P/P	40 - 150
2386373	Silvex	85.7	98.7	P/P	40 - 150
2386373	Thiamethoxam	98.2	108	P/P	40 - 150
2386373	Tolfenpyrad	50.5	53.7	P/P	30 - 150
2386373	Triclopyr	85.0	82.7	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P425910

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2385654	Fluoride	98.5	97.8	P/P	94 - 104

Reference Method: SM 4500-F- C-2011

Batch ID: P426052

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2386675	Fluoride	99.4	98.6	P/P	94 - 104

Reference Method: SM 5310 B-2011

Batch ID: P425801

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2386453	Organic Carbon	95.7	96.3	P/P	85 - 115

Reference Method: SM 5310 B-2011

Batch ID: P425802

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2385882	Organic Carbon	92.3	91.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P425619

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2386387	Color (true)	3.53	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P425615

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2386139	Turbidity	2.79	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P425616

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2386357	Turbidity	0.0	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426057

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2386403	Chloride	0.380	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426060

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2386403	Sulfate	0.0802	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425979

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2386360	Ammonia-N	0.187	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426102

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2385100	Ammonia-N	0.942	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426155

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2386977	Ammonia-N	2.08	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425803

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2386272	Kjeldahl Nitrogen	4.32	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425804

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2386363	Kjeldahl Nitrogen	4.76	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425808

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2386116	Kjeldahl Nitrogen	0.584	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425809

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2386461	Kjeldahl Nitrogen	4.99	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425777

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2386303	NO2NO3-N	0.966	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426009

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2386356	NO2NO3-N	0.830	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425733

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2386354	Total-P	0.489	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425763

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2386651	Total-P	0.647	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P426346

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2387751	Total-P	1.96	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P425530

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2385305	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	23.6	Spike	P	0 - 37
2385305	Acetochlor	6.29	Spike	P	0 - 28
2385305	Alachlor	8.17	Spike	P	0 - 30
2385305	Ametryn	17.9	Spike	P	0 - 32
2385305	Atrazine	22.4	Spike	P	0 - 41
2385305	Atrazine Desethyl	19.8	Spike	P	0 - 36
2385305	Avobenzone	11.7	Spike	P	0 - 36
2385305	Azinphos Methyl	8.00	Spike	P	0 - 75
2385305	Azoxystrobin	19.6	Spike	P	0 - 39
2385305	Bromacil	5.16	Spike	P	0 - 33
2385305	Butylate	27.1	Spike	P	0 - 44
2385305	Caffeine	4.66	Spike	P	0 - 74
2385305	Carbophenothion	0.877	Spike	P	0 - 25
2385305	Carfentrazone Ethyl	12.1	Spike	P	0 - 27
2385305	Chlorfenapyr	22.8	Spike	P	0 - 24
2385305	Chlorpyrifos Ethyl	4.47	Spike	P	0 - 26
2385305	Chlorpyrifos Methyl	7.85	Spike	P	0 - 26
2385305	Coumaphos	36.5	Spike	F	0 - 28
2385305	Cyanazine	46.0	Spike	P	0 - 48
2385305	Cyprodinil	12.9	Spike	P	0 - 29
2385305	Dechlorane Plus	37.3	Spike	F	0 - 30
2385305	Demeton	17.5	Spike	P	0 - 33
2385305	Diazinon	5.53	Spike	P	0 - 29
2385305	Difenoconazole	67.6	Spike	F	0 - 34
2385305	Dimethenamid	41.4	Spike	F	0 - 39
2385305	Dimethomorph	8.16	Spike	P	0 - 51
2385305	Disulfoton	8.36	Spike	P	0 - 30
2385305	Dithiopyr	11.0	Spike	P	0 - 26
2385305	EPTC	36.1	Spike	P	0 - 43
2385305	Ethion	99.0	Spike	F	0 - 79
2385305	Ethoprop	12.1	Spike	P	0 - 29
2385305	Etridiazole	45.2	Spike	F	0 - 33
2385305	Fenamiphos	10.4	Spike	P	0 - 40
2385305	Fenbuconazole	21.7	Spike	P	0 - 74
2385305	Fipronil	6.02	Spike	P	0 - 29
2385305	Fipronil Desulfinyl	0.449	Spike	P	0 - 32
2385305	Fipronil Sulfide	4.06	Spike	P	0 - 30
2385305	Fipronil Sulfone	10.4	Spike	P	0 - 33
2385305	Fluazifop-P-butyl	4.91	Spike	P	0 - 38
2385305	Fludioxonil	19.6	Spike	P	0 - 29
2385305	Flumioxazin	62.2	Spike	F	0 - 51
2385305	Flutolanil	13.2	Spike	P	0 - 25
2385305	Fluxapyroxad	72.4	Spike	F	0 - 45
2385305	Fonofos	20.1	Spike	P	0 - 27

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P425530

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2385305	Hexazinone	13.3	Spike	P	0 - 30
2385305	Imazalil	11.5	Spike	P	0 - 100
2385305	Iprodione	28.1	Spike	P	0 - 33
2385305	Loratadine	11.0	Spike	P	0 - 56
2385305	Malathion	7.98	Spike	P	0 - 37
2385305	Metalaxyl	17.1	Spike	P	0 - 40
2385305	Metolachlor	1.50	Spike	P	0 - 29
2385305	Metribuzin	34.6	Spike	P	0 - 45
2385305	Mevinphos	13.7	Spike	P	0 - 29
2385305	Molinate	19.7	Spike	P	0 - 33
2385305	Myclobutanil	1.27	Spike	P	0 - 26
2385305	Naled	13.5	Spike	P	0 - 37
2385305	Napropamide	153	Spike	F	0 - 44
2385305	Norflurazon	10.0	Spike	P	0 - 30
2385305	Octinoxate	1.56	Spike	P	0 - 45
2385305	Oxadiazon	13.6	Spike	P	0 - 28
2385305	Oxybenzone	7.08	Spike	P	0 - 46
2385305	Oxyfluorfen	12.8	Spike	P	0 - 28
2385305	Parathion Ethyl	13.4	Spike	P	0 - 31
2385305	Parathion Methyl	8.70	Spike	P	0 - 29
2385305	PBDE-47	24.5	Spike	P	0 - 36
2385305	PBDE-99	27.4	Spike	P	0 - 40
2385305	Pendimethalin	7.08	Spike	P	0 - 33
2385305	Phenytoin	46.1	Spike	P	0 - 100
2385305	Phorate	23.4	Spike	P	0 - 36
2385305	Prodiamine	19.7	Spike	P	0 - 71
2385305	Prometon	2.19	Spike	P	0 - 36
2385305	Prometryn	16.1	Spike	P	0 - 28
2385305	Pronamide	6.25	Spike	P	0 - 24
2385305	Propanil	2.73	Spike	P	0 - 28
2385305	Propargite	41.4	Spike	P	0 - 43
2385305	Propiconazole	1.91	Spike	P	0 - 33
2385305	Pyraflufen Ethyl	0.663	Spike	P	0 - 29
2385305	Pyridaben	5.60	Spike	P	0 - 30
2385305	Pyriproxyfen	66.2	Spike	P	0 - 79
2385305	Simazine	12.8	Spike	P	0 - 29
2385305	Stirophos	40.1	Spike	P	0 - 61
2385305	Sulfentrazone	5.35	Spike	P	0 - 33
2385305	Tebuconazole	98.7	Spike	F	0 - 69
2385305	Terbufos	21.1	Spike	P	0 - 29
2385305	Terbutylazine	26.3	Spike	P	0 - 32
2385305	Thiobencarb	5.03	Spike	P	0 - 26
2385305	Tri-o-cresyl Phosphate	4.29	Spike	P	0 - 33
2385305	Triadimefon	18.4	Spike	P	0 - 28

Reference Method: EPA 8270E

Batch ID: P425594

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2386475	Aldrin	11.4	Spike	P	0 - 41

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P425594

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2386475	Alpha-BHC	0.461	Spike	P	0 - 25
2386475	Alpha-Chlordane	4.46	Spike	P	0 - 33
2386475	Beta-BHC	2.85	Spike	P	0 - 36
2386475	Beta-Cyfluthrin	6.38	Spike	P	0 - 42
2386475	Bifenthrin	11.0	Spike	P	0 - 53
2386475	Chlorothalonil	9.51	Spike	P	0 - 71
2386475	Cis-Nonachlor	8.53	Spike	P	0 - 29
2386475	Cypermethrin	9.98	Spike	P	0 - 40
2386475	Dacthal	3.35	Spike	P	0 - 26
2386475	DDD-p,p'	3.48	Spike	P	0 - 39
2386475	DDE-p,p'	0.886	Spike	P	0 - 33
2386475	DDT-p,p'	1.89	Spike	P	0 - 40
2386475	Delta-BHC	1.25	Spike	P	0 - 37
2386475	Deltamethrin	16.9	Spike	P	0 - 100
2386475	Dichlobenil	9.41	Spike	P	0 - 40
2386475	Dicofol	7.41	Spike	P	0 - 31
2386475	Dieldrin	3.27	Spike	P	0 - 27
2386475	Endosulfan I	0.0825	Spike	P	0 - 23
2386475	Endosulfan II	0.549	Spike	P	0 - 28
2386475	Endosulfan Sulfate	7.79	Spike	P	0 - 38
2386475	Endrin	3.18	Spike	P	0 - 63
2386475	Endrin Aldehyde	1.21	Spike	P	0 - 60
2386475	Endrin Ketone	3.33	Spike	P	0 - 37
2386475	Esfenvalerate	9.47	Spike	P	0 - 52
2386475	Ethalfuralin	0.493	Spike	P	0 - 23
2386475	Fenpropathrin	0.707	Spike	P	0 - 32
2386475	Gamma-BHC	2.48	Spike	P	0 - 17
2386475	Gamma-Chlordane	9.53	Spike	P	0 - 40
2386475	Heptachlor	6.31	Spike	P	0 - 29
2386475	Heptachlor Epoxide	1.75	Spike	P	0 - 25
2386475	Hexachlorobenzene	0.594	Spike	P	0 - 36
2386475	Kepone	0.742	Spike	P	0 - 93
2386475	Lambda-Cyhalothrin	5.83	Spike	P	0 - 55
2386475	Methoprene	4.60	Spike	P	0 - 53
2386475	Methoxychlor	7.33	Spike	P	0 - 29
2386475	MGK-264	7.79	Spike	P	0 - 35
2386475	Mirex	1.97	Spike	P	0 - 46
2386475	Oxychlordane	2.95	Spike	P	0 - 29
2386475	Permethrin	17.4	Spike	P	0 - 44
2386475	Phenothrin	10.3	Spike	P	0 - 56
2386475	Piperonyl Butoxide	0.774	Spike	P	0 - 100
2386475	Prallethrin	11.3	Spike	P	0 - 42
2386475	Tau-Fluvalinate	8.42	Spike	P	0 - 54
2386475	Tetramethrin	5.67	Spike	P	0 - 51
2386475	Trans-Nonachlor	4.84	Spike	P	0 - 37
2386475	Triclosan Methyl	3.04	Spike	P	0 - 31
2386475	Trifluralin	1.86	Spike	P	0 - 30
2386481	PCB-1016	3.27	Spike	P	0 - 32
2386481	PCB-1260	1.38	Spike	P	0 - 31

Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P425594

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2386481	Chlordane	6.27	Spike	P	0 - 25
2386481	Toxaphene	12.3	Spike	P	0 - 26

Reference Method: EPA 8321B
Batch ID: P425585

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2386143	Acesulfame K	2.19	Spike	P	0 - 30
2386143	AMPA	5.09	Spike	P	0 - 30
2386143	Endothall	1.24	Spike	P	0 - 30
2386143	Glufosinate	0.483	Spike	P	0 - 30
2386143	Glyphosate	5.44	Spike	P	0 - 30
2386143	Sucralose	4.88	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P425593

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2386372	3-Hydroxycarbofuran	4.19	Spike	P	0 - 30
2386372	Aldicarb	3.43	Spike	P	0 - 30
2386372	Aldicarb Sulfone	1.66	Spike	P	0 - 30
2386372	Aldicarb Sulfoxide	4.69	Spike	P	0 - 30
2386372	Carbaryl	1.28	Spike	P	0 - 30
2386372	Carbofuran	3.34	Spike	P	0 - 30
2386372	Methiocarb	28.6	Spike	P	0 - 30
2386372	Methomyl	11.3	Spike	P	0 - 30
2386372	Oxamyl	10.1	Spike	P	0 - 30
2386372	Propoxur	4.76	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P425700

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2386373	2,4-D	4.46	Spike	P	0 - 30
2386373	2,4,5-T	1.08	Spike	P	0 - 30
2386373	Acetaminophen	4.87	Spike	P	0 - 30
2386373	Acetamiprid	5.90	Spike	P	0 - 30
2386373	Afidopyropen	24.7	Spike	P	0 - 30
2386373	Bentazon	1.35	Spike	P	0 - 30
2386373	Benzovindiflupyr	4.56	Spike	P	0 - 30
2386373	Carbamazepine	2.12	Spike	P	0 - 30
2386373	Clothianidin	7.24	Spike	P	0 - 30
2386373	Dinotefuran	6.79	Spike	P	0 - 30
2386373	Diuron	8.93	Spike	P	0 - 30
2386373	Fenuron	2.56	Spike	P	0 - 30
2386373	Fluridone	14.1	Spike	P	0 - 30
2386373	Hydrocodone	17.9	Spike	P	0 - 30
2386373	Ibuprofen	1.35	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P425700

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2386373	Imazapyr	3.17	Spike	P	0 - 30
2386373	Imidacloprid	2.75	Spike	P	0 - 30
2386373	Linuron	2.54	Spike	P	0 - 30
2386373	Mandestrobin	1.97	Spike	P	0 - 30
2386373	MCPP	0.137	Spike	P	0 - 30
2386373	Naproxen	11.4	Spike	P	0 - 30
2386373	Primidone	9.64	Spike	P	0 - 30
2386373	Pyraclostrobin	4.08	Spike	P	0 - 30
2386373	Silvex	14.1	Spike	P	0 - 30
2386373	Thiamethoxam	9.83	Spike	P	0 - 30
2386373	Tolfenpyrad	6.14	Spike	P	0 - 30
2386373	Triclopyr	2.79	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P425908

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2385654	Total Alkalinity	1.09	Sample	P	0 - 3.8

Reference Method: SM 2320 B-2011
Batch ID: P426048

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2386675	Total Alkalinity	0.838	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015
Batch ID: P426111

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2385790	TDS	7.87	Sample	P	0 - 10

Reference Method: SM 2540 C-2015
Batch ID: P426112

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2386387	TDS	4.80	Sample	P	0 - 10

Reference Method: SM 2540 D-2015
Batch ID: P426007

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2385879	TSS	4.76	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P425910

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2385654	Fluoride	0.463	Spike	P	0 - 1.6

Reference Method: SM 4500-F- C-2011
Batch ID: P426052

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2386675	Fluoride	0.473	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P425801

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2386453	Organic Carbon	0.562	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P425802

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2385882	Organic Carbon	1.30	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2386372
Field Sample ID: G4SE0147

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

Lab Sample ID: 2386373
Field Sample ID: G4SE0147

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	122	P	30 - 160
EPA 8321B	Acetaminophen-d4	99.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	107	P	30 - 160
EPA 8321B	Diuron-d6	72.8	P	30 - 160
EPA 8321B	Endothall-d6	45.0	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	197	F	30 - 160
EPA 8321B	Ibuprofen-d3	89.9	P	30 - 160
EPA 8321B	Primidone-d5	96.9	P	30 - 160
EPA 8321B	Sucralose-d6	65.1	P	30 - 160

Lab Sample ID: 2386374
Field Sample ID: FB_02082023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	84.7	P	30 - 160

Lab Sample ID: 2386375
Field Sample ID: FB_02082023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	104	P	30 - 160
EPA 8321B	Acetaminophen-d4	95.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	114	P	30 - 160
EPA 8321B	Diuron-d6	91.6	P	30 - 160
EPA 8321B	Endothall-d6	67.0	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	93.4	P	30 - 160
EPA 8321B	Ibuprofen-d3	74.7	P	30 - 160
EPA 8321B	Primidone-d5	97.1	P	30 - 160
EPA 8321B	Sucralose-d6	104	P	30 - 160

Lab Sample ID: 2386376
Field Sample ID: G4SE0147

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	68.7	P	29 - 130
EPA 8270E	Decachlorobiphenyl	57.3	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	61.6	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	59.0	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	53.9	P	30 - 101
EPA 8276	PCNB	82.8	P	48 - 121

Lab Sample ID: 2386377
Field Sample ID: G4SE0147

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	73.7	P	20 - 200

Quality Assurance Report Surrogates

Lab Sample ID: 2386377
Field Sample ID: G4SE0147

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	107	P	62 - 142
EPA 8270E	Terbufos-d10	95.0	P	58 - 132
EPA 8270E	Terphenyl-d14	89.4	P	52 - 137

Lab Sample ID: 2386378
Field Sample ID: FB_02082023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	70.6	P	29 - 130
EPA 8270E	Decachlorobiphenyl	58.7	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	78.9	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	71.6	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	56.1	P	30 - 101
EPA 8276	PCNB	82.2	P	48 - 121

Lab Sample ID: 2386379
Field Sample ID: FB_02082023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	74.5	P	20 - 200
EPA 8270E	Simazine-d10	104	P	62 - 142
EPA 8270E	Terbufos-d10	94.8	P	58 - 132
EPA 8270E	Terphenyl-d14	109	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A117357

Included Lab Sample IDs: 2386353, 2386355, 2386357, 2386359, 2386361

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	101	P/P	95 - 105
Turbidity	101	100	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1

Run ID: A117358

Included Lab Sample IDs: 2386353, 2386355, 2386357, 2386359, 2386361

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.4	99.8	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A117416

Included Lab Sample IDs: 2386373, 2386375

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	102	103	P/P	60 - 160
Sucralose	101	105	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A117424

Included Lab Sample IDs: 2386372, 2386374

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	101	117	P/P	60 - 150
Aldicarb	83.7	95.7	P/P	60 - 150
Aldicarb Sulfone	114	118	P/P	50 - 150
Aldicarb Sulfoxide	110	117	P/P	50 - 150
Carbaryl	111	109	P/P	60 - 150
Carbofuran	137	133	P/P	50 - 150
Methiocarb	90.7	92.2	P/P	50 - 150
Methomyl	104	115	P/P	50 - 150
Oxamyl	118	132	P/P	50 - 150
Propoxur	110	116	P/P	50 - 150

Reference Method: EPA 8321B

Run ID: A117425

Included Lab Sample IDs: 2386373, 2386375

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	100	101	P/P	60 - 160
AMPA	108	97.1	P/P	60 - 160
Endothall	63.9	89.4	P/P	60 - 160
Glufosinate	84.5	88.1	P/P	60 - 160
Glufosinate	94.1	89.2	P/P	60 - 160
Glyphosate	91.5	104	P/P	60 - 160
Glyphosate	97.2	99.5	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A117426

Included Lab Sample IDs: 2386353, 2386355, 2386357, 2386359, 2386361

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	92.0	92.8	P/P	90 - 110
Chloride	94.7	92.0	P/P	90 - 110
Sulfate	95.8	96.5	P/P	90 - 110
Sulfate	98.7	95.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A117431

Included Lab Sample IDs: 2386354, 2386356

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A117432

Included Lab Sample IDs: 2386358, 2386360, 2386362

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

Reference Method: EPA 8270E

Run ID: A117438

Included Lab Sample IDs: 2386376, 2386378

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	98.7		P	80 - 120
PCB-1260	94.4		P	80 - 120

Reference Method: EPA 8270E

Run ID: A117440

Included Lab Sample IDs: 2386377, 2386379

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	97.3		P	80 - 120
Avobenzone	96.7		P	80 - 120
Dechlorane Plus	95.1		P	80 - 120
Octinoxate	92.2		P	80 - 120
Oxybenzone	94.4		P	80 - 120
PBDE-47	96.2		P	80 - 120
PBDE-99	98.3		P	80 - 120
Tri-o-cresyl Phosphate	95.2		P	80 - 120

Reference Method: SM 5310 B-2011

Run ID: A117442

Included Lab Sample IDs: 2386354, 2386356, 2386358, 2386360, 2386362

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.2	97.6	P/P	90 - 110
Organic Carbon	97.2	97.6	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A117459

Included Lab Sample IDs: 2386373, 2386375

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	98.6	95.1	P/P	50 - 150
2,4,5-T	113	115	P/P	50 - 150
Acetaminophen	107	103	P/P	60 - 160
Acetamiprid	106	105	P/P	50 - 150
Afidopyropen	101	114	P/P	50 - 150
Bentazon	130	121	P/P	50 - 160
Bentazon	131	132	P/P	50 - 160
Benzovindiflupyr	100	101	P/P	50 - 150
Carbamazepine	105	119	P/P	60 - 150
Clothianidin	106	105	P/P	60 - 150
Dinotefuran	106	104	P/P	50 - 150
Diuron	116	104	P/P	60 - 160
Fenuron	103	103	P/P	60 - 150
Fluridone	96.8	121	P/P	60 - 160
Hydrocodone	111	95.1	P/P	60 - 150
Ibuprofen	123	144	P/P	50 - 160
Imazapyr	105	100	P/P	50 - 150
Imidacloprid	96.8	99.0	P/P	60 - 150
Linuron	112	105	P/P	60 - 150
Mandestrobin	104	101	P/P	50 - 150
MCPP	94.1	115	P/P	50 - 150
Naproxen	92.9	144	P/P	50 - 160
Primidone	94.1	94.7	P/P	60 - 150
Pyraclostrobin	109	111	P/P	60 - 150
Silvex	104	90.0	P/P	50 - 150
Thiamethoxam	109	110	P/P	50 - 150
Tolfenpyrad	101	101	P/P	60 - 150
Triclopyr	113	102	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A117466

Included Lab Sample IDs: 2386358

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A117469

Included Lab Sample IDs: 2386360

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.2	98.8	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A117472

Included Lab Sample IDs: 2386353, 2386355

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.6	99.1	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500-F- C-2011

Run ID: A117472

Included Lab Sample IDs: 2386353, 2386355

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	102	99.5	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A117495

Included Lab Sample IDs: 2386360

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.8	99.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A117514

Included Lab Sample IDs: 2386354, 2386356

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A117528

Included Lab Sample IDs: 2386354, 2386356, 2386360

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	100	P/P	90 - 110
Kjeldahl Nitrogen	98.3	100	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A117530

Included Lab Sample IDs: 2386357, 2386359, 2386361

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	94.2	96.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A117530

Included Lab Sample IDs: 2386357, 2386359, 2386361

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

Reference Method: EPA 8270E

Run ID: A117532

Included Lab Sample IDs: 2386376, 2386378

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	105		P	80 - 120
Alpha-BHC	103		P	80 - 120
Alpha-Chlordane	101		P	80 - 120
Beta-BHC	105		P	80 - 120
Beta-Cyfluthrin	102		P	80 - 120
Bifenthrin	101		P	80 - 120
Chlorothalonil	93.2		P	80 - 120
Cis-Nonachlor	96.6		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A117532

Included Lab Sample IDs: 2386376, 2386378

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cypermethrin	97.4		P	80 - 120
Dacthal	103		P	80 - 120
DDD-p,p'	95.7		P	80 - 120
DDE-p,p'	103		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	98.9		P	80 - 120
Deltamethrin	99.2		P	80 - 120
Dichlobenil	101		P	80 - 120
Dicofol	99.7		P	80 - 120
Dieldrin	101		P	80 - 120
Endosulfan I	101		P	80 - 120
Endosulfan II	95.9		P	80 - 120
Endosulfan Sulfate	100		P	80 - 120
Endrin	105		P	80 - 120
Endrin Aldehyde	96.4		P	80 - 120
Endrin Ketone	93.7		P	80 - 120
Esfenvalerate	96.1		P	80 - 120
Ethalfuralin	102		P	80 - 120
Fenpropathrin	104		P	80 - 120
Gamma-BHC	105		P	80 - 120
Gamma-Chlordane	98.2		P	80 - 120
Heptachlor	102		P	80 - 120
Heptachlor Epoxide	105		P	80 - 120
Hexachlorobenzene	98.4		P	80 - 120
Kepone	87.2		P	80 - 120
Lambda-Cyhalothrin	106		P	80 - 120
Methoprene	100		P	80 - 120
Methoxychlor	101		P	80 - 120
MGK-264	98.9		P	80 - 120
Mirex	104		P	80 - 120
Oxychlordane	106		P	80 - 120
Permethrin	104		P	80 - 120
Phenothrin	103		P	80 - 120
Piperonyl Butoxide	85.6		P	80 - 120
Prallethrin	97.0		P	80 - 120
Tau-Fluvalinate	98.7		P	80 - 120
Tetramethrin	91.5		P	80 - 120
Trans-Nonachlor	103		P	80 - 120
Triclosan Methyl	97.4		P	80 - 120
Trifluralin	106		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A117546

Included Lab Sample IDs: 2386358, 2386362

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.1	99.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8276

Run ID: A117561

Included Lab Sample IDs: 2386376, 2386378

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	93.8		P	80 - 120
Toxaphene	87.1		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A117566

Included Lab Sample IDs: 2386354, 2386356

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.6	98.3	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A117612

Included Lab Sample IDs: 2386358, 2386362

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	97.0	P/P	90 - 110
Kjeldahl Nitrogen	97.0	103	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A117663

Included Lab Sample IDs: 2386377, 2386379

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	97.8		P	80 - 120
Alachlor	98.3		P	80 - 120
Ametryn	99.9		P	80 - 120
Atrazine	103		P	80 - 120
Atrazine Desethyl	105		P	80 - 120
Azinphos Methyl	102		P	80 - 120
Azoxystrobin	97.5		P	80 - 120
Bromacil	103		P	80 - 120
Butylate	104		P	80 - 120
Caffeine	99.2		P	80 - 120
Carbophenothion	104		P	80 - 120
Carfentrazone Ethyl	105		P	80 - 120
Chlorfenapyr	105		P	80 - 120
Chlorpyrifos Ethyl	90.0		P	80 - 120
Chlorpyrifos Methyl	97.2		P	80 - 120
Coumaphos	101		P	80 - 120
Cyanazine	85.3		P	80 - 120
Cyprodinil	101		P	80 - 120
Demeton	98.5		P	80 - 120
Diazinon	97.2		P	80 - 120
Difenoconazole	105		P	80 - 120
Dimethenamid	101		P	80 - 120
Dimethomorph	101		P	80 - 120
Disulfoton	100		P	80 - 120
Dithiopyr	101		P	80 - 120
EPTC	101		P	80 - 120
Ethion	96.3		P	80 - 120
Ethoprop	99.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A117663

Included Lab Sample IDs: 2386377, 2386379

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Etridiazole	101		P	80 - 120
Fenamiphos	98.8		P	80 - 120
Fenbuconazole	101		P	80 - 120
Fipronil	102		P	80 - 120
Fipronil Desulfinyl	105		P	80 - 120
Fipronil Sulfide	100		P	80 - 120
Fipronil Sulfone	101		P	80 - 120
Fluazifop-P-butyl	102		P	80 - 120
Fludioxonil	99.7		P	80 - 120
Flumioxazin	101		P	80 - 120
Flutolanil	102		P	80 - 120
Fluxapyroxad	104		P	80 - 120
Fonofos	93.4		P	80 - 120
Hexazinone	103		P	80 - 120
Imazalil	97.8		P	80 - 120
Iprodione	106		P	80 - 120
Loratadine	97.2		P	80 - 120
Malathion	89.8		P	80 - 120
Metalaxyl	106		P	80 - 120
Metolachlor	100		P	80 - 120
Metribuzin	104		P	80 - 120
Mevinphos	96.7		P	80 - 120
Molinate	102		P	80 - 120
Myclobutanil	102		P	80 - 120
Naled	105		P	80 - 120
Napropamide	101		P	80 - 120
Norflurazon	98.8		P	80 - 120
Oxadiazon	97.3		P	80 - 120
Oxyfluorfen	104		P	80 - 120
Parathion Ethyl	96.9		P	80 - 120
Parathion Methyl	103		P	80 - 120
Pendimethalin	93.0		P	80 - 120
Phenytoin	102		P	80 - 120
Phorate	103		P	80 - 120
Prodiamine	103		P	80 - 120
Prometon	101		P	80 - 120
Prometryn	97.3		P	80 - 120
Pronamide	96.9		P	80 - 120
Propanil	99.5		P	80 - 120
Propargite	104		P	80 - 120
Propiconazole	100		P	80 - 120
Pyraflufen Ethyl	105		P	80 - 120
Pyridaben	102		P	80 - 120
Pyriproxyfen	99.3		P	80 - 120
Simazine	101		P	80 - 120
Stirophos	100		P	80 - 120
Sulfentrazone	89.3		P	80 - 120
Tebuconazole	105		P	80 - 120
Terbufos	96.7		P	80 - 120
Terbuthylazine	99.2		P	80 - 120
Thiobencarb	99.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A117663

Included Lab Sample IDs: 2386377, 2386379

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Triadimefon	97.7		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A117682

Included Lab Sample IDs: 2386362

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	96.5	96.5	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	
DEP SOP: NU-094-1	Color (true)	107				3.53	
EPA 180.1 Rev. 2.0	Turbidity	101				2.79	
	Turbidity	101				0.0	
EPA 300.0 Rev. 2.1	Chloride	97.5	102	93.4		0.380	
	Sulfate	100	102	93.6		0.0802	
EPA 350.1 Rev. 2.0	Ammonia-N	101	97.2	97.4			0.187
	Ammonia-N	98.2	97.2	98.4			0.942
	Ammonia-N	95.2	99.0	102			2.08
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	97.1	93.8	98.8			4.32
	Kjeldahl Nitrogen	99.0	98.2	105			4.76
	Kjeldahl Nitrogen	101	97.2	96.6			0.584
	Kjeldahl Nitrogen	97.5	98.7	91.4			4.99
EPA 353.2 Rev. 2.0	NO2NO3-N	104	104	103			0.966
	NO2NO3-N	102	104	103			0.830
EPA 365.1 Rev. 2.0	Total-P	96.4	93.3	92.8			0.489
	Total-P	100	100	101			0.647
	Total-P	98.2	100	102			1.96
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	75.9	57.0	72.2			23.6
	Acetochlor	95.1	88.6	83.2			6.29
	Alachlor	89.5	81.8	75.4			8.17
	Aldrin	61.7	53.2	59.6			11.4
	Alpha-BHC	90.2	87.2	87.6			0.461
	Alpha-Chlordane	105	108	113			4.46
	Ametryn	100	122	87.7			17.9
	Atrazine	97.7					22.4
	Atrazine Desethyl	103					19.8
	Avobenzone	91.1	72.6	81.7			11.7
	Azinphos Methyl	121	120	111			8.00
	Azoxystrobin	113	136	112			19.6
	Beta-BHC	114	130	134			2.85
	Beta-Cyfluthrin	88.2	130	139			6.38
	Bifenthrin	72.8	70.5	78.6			11.0
	Bromacil	95.0	79.4	83.6			5.16
	Butylate	62.6	64.4	49.1			27.1
	Caffeine	78.5	71.2	74.7			4.66
	Carbophenothion	113	108	109			0.877
	Carfentrazone Ethyl	117	101	89.5			12.1
	Chlorfenapyr	96.8	86.9	69.1			22.8
	Chlorothalonil	120	111	122			9.51
	Chlorpyrifos Ethyl	91.5	83.6	79.9			4.47
	Chlorpyrifos Methyl	110	108	100			7.85
	Cis-Nonachlor	74.4	72.1	78.5			8.53
	Coumaphos	105	49.7	72.0			36.5
	Cyanazine	323	179	285			46.0
	Cypermethrin	59.0	76.2	84.2			9.98
	Cyprodinil	120	122	107			12.9
	Dacthal	92.3	90.3	87.4			3.35
	DDD-p,p'	99.8	118	114			3.48
	DDE-p,p'	102	117	118			0.886
	DDT-p,p'	75.8	76.6	78.1			1.89
	Dechlorane Plus	84.3	76.2	52.2			37.3
	Delta-BHC	111	129	131			1.25

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Deltamethrin	79.8	139	117			16.9
	Demeton	89.3	121	101			17.5
	Diazinon	97.5	99.7	94.4			5.53
	Dichlobenil	88.5	70.0	63.7			9.41
	Dicofol	87.2	84.1	90.6			7.41
	Dieldrin	103	112	116			3.27
	Difenoconazole	124	77.4	156			67.6
	Dimethenamid	79.8	51.5	78.5			41.4
	Dimethomorph	173	208	191			8.16
	Disulfoton	102	115	106			8.36
	Dithiopyr	96.4	94.4	84.5			11.0
	Endosulfan I	91.8	81.9	81.9			0.0825
	Endosulfan II	115	107	108			0.549
	Endosulfan Sulfate	114	125	115			7.79
	Endrin	106	116	120			3.18
	Endrin Aldehyde	71.7	71.1	71.9			1.21
	Endrin Ketone	75.2	80.3	83.1			3.33
	EPTC	61.0	69.3	48.1			36.1
	Esfenvalerate	98.1	144	158			9.47
	Ethalfuralin	82.5	84.5	84.9			0.493
	Ethion	37.7	14.7	43.6			99.0
	Ethoprop	93.9	107	94.6			12.1
	Etridiazole	70.0	87.4	55.2			45.2
	Fenamiphos	96.8	109	98.2			10.4
	Fenbuconazole	110	82.2	102			21.7
	Fenpropathrin	73.8	82.5	81.9			0.707
	Fipronil	123	120	113			6.02
	Fipronil Desulfinyl	116	110	111			0.449
	Fipronil Sulfide	93.8	99.1	93.9			4.06
	Fipronil Sulfone	112	88.6	73.4			10.4
	Fluazifop-P-butyl	99.6	93.7	89.2			4.91
	Fludioxonil	99.2	99.5	81.7			19.6
	Flumioxazin	119	82.6	157			62.2
	Flutolanil	105	79.3	90.5			13.2
	Fluxapyroxad	77.3	31.3	66.8			72.4
	Fonofos	90.5	102	83.2			20.1
	Gamma-BHC	84.7	76.8	78.8			2.48
	Gamma-Chlordane	75.9	75.2	82.7			9.53
	Heptachlor	80.0	68.2	72.7			6.31
	Heptachlor Epoxide	92.4	81.3	79.9			1.75
	Hexachlorobenzene	85.4	80.7	81.2			0.594
	Hexazinone	87.2	78.9	90.1			13.3
	Imazalil	85.1	127	113			11.5
	Iprodione	109	67.2	89.2			28.1
	Kepone	183	180	182			0.742
	Lambda-Cyhalothrin	72.2	94.6	100			5.83
	Loratadine	203	175	195			11.0
	Malathion	91.1	89.2	82.3			7.98
	Metalaxyl	103	114	95.6			17.1
	Methoprene	96.8	116	122			4.60
	Methoxychlor	88.5	86.4	93.0			7.33
	Metolachlor	97.8	84.8	83.5			1.50
	Metribuzin	103	126	89.1			34.6
	Mevinphos	81.4	89.0	77.5			13.7

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	MGK-264	92.9	76.4	82.6		7.79
	Mirex	63.5	76.1	74.6		1.97
	Molinate	70.9	78.1	64.1		19.7
	Myclobutanil	94.4	113	116		1.27
	Naled	111	113	98.9		13.5
	Napropamide	65.5	9.16	68.2		153
	Norflurazon	95.1	81.2	89.8		10.0
	Octinoxate	73.4	61.8	60.8		1.56
	Oxadiazon	93.9	81.1	70.8		13.6
	Oxybenzone	69.3	63.8	59.4		7.08
	Oxychlordane	89.8	77.8	80.1		2.95
	Oxyfluorfen	113	97.9	111		12.8
	Parathion Ethyl	84.5	94.3	82.5		13.4
	Parathion Methyl	106	112	122		8.70
	PBDE-47	70.0	49.5	63.3		24.5
	PBDE-99	68.4	48.6	64.0		27.4
	PCB-1016	90.0	85.6	88.5		3.27
	PCB-1260	83.9	80.4	81.5		1.38
	Pendimethalin	87.6	105	112		7.08
	Permethrin	118	127	151		17.4
	Phenothrin	65.3	84.6	93.8		10.3
	Phenytol	4.28	19.9	12.4		46.1
	Phorate	95.7	86.7	110		23.4
	Piperonyl Butoxide	116	109	109		0.774
	Prallethrin	109	107	120		11.3
	Prodiamine	42.3	68.4	56.1		19.7
	Prometon	85.0	77.0	75.3		2.19
	Prometryn	92.4	81.7	96.0		16.1
	Pronamide	90.0	90.9	96.8		6.25
	Propanil	93.7	87.4	85.1		2.73
	Propargite	63.5	57.6	37.8		41.4
	Propiconazole	105	89.2	92.3		1.91
	Pyraflufen Ethyl	106	85.5	86.1		0.663
	Pyridaben	134	122	115		5.60
	Pyriproxyfen	74.6	81.4	40.9		66.2
	Simazine	91.7	103	119		12.8
	Stirophos	66.1	61.3	40.8		40.1
	Sulfentrazone	69.1	69.0	74.7		5.35
	Tau-Fluvalinate	81.5	132	144		8.42
	Tebuconazole	46.1	3.58	47.3		98.7
	Terbufos	111	104	129		21.1
	Terbutylazine	82.1	69.0	89.9		26.3
	Tetramethrin	112	113	120		5.67
	Thiobencarb	80.0	71.9	75.6		5.03
	Trans-Nonachlor	88.9	80.1	84.1		4.84
	Tri-o-cresyl Phosphate	71.7	62.9	60.2		4.29
	Triadimefon	81.6	64.4	50.4		18.4
	Triclosan Methyl	86.2	83.5	86.1		3.04
	Trifluralin	85.9	83.5	85.1		1.86
EPA 8276	Chlordane	110	108	115		6.27
	Toxaphene	128	120	136		12.3
EPA 8321B	2,4-D	84.5	104	99.3		4.46
	2,4,5-T	72.1	86.9	86.0		1.08
	3-Hydroxycarbofuran	99.3	131	125		4.19

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8321B	Acesulfame K	96.2	77.6	79.3			2.19
	Acetaminophen	87.3	101	106			4.87
	Acetamiprid	85.7	102	95.7			5.90
	Afidopyropen	73.1	60.6	77.7			24.7
	Aldicarb	49.5	60.5	58.5			3.43
	Aldicarb Sulfone	105	108	110			1.66
	Aldicarb Sulfoxide	110	76.9	73.3			4.69
	AMPA	99.0	95.2	101			5.09
	Bentazon	106					1.35
	Benzovindiflupyr	80.5	86.0	82.2			4.56
	Carbamazepine	82.0	91.7	89.8			2.12
	Carbaryl	75.1	73.0	73.9			1.28
	Carbofuran	97.0	86.0	83.1			3.34
	Clothianidin	91.5	99.0	106			7.24
	Dinotefuran	95.5	106	114			6.79
	Diuron	72.3	74.1	81.6			8.93
	Endothall	98.4	153	152			1.24
	Fenuron	91.7	89.2	91.5			2.56
	Fluridone	79.0	81.7	60.4			14.1
	Glufosinate	99.2	117	116			0.483
	Glyphosate	98.5	126	133			5.44
	Hydrocodone	75.8	99.1	82.9			17.9
	Ibuprofen	84.7	97.5	96.2			1.35
	Imazapyr	80.8					3.17
	Imidacloprid	84.6	122	126			2.75
	Linuron	69.1	70.7	72.5			2.54
	Mandestrobin	85.9	88.9	90.6			1.97
	MCCP	88.3	104	104			0.137
	Methiocarb	63.7	76.5	57.3			28.6
	Methomyl	107	107	95.5			11.3
	Naproxen	66.2	96.2	85.9			11.4
	Oxamyl	118	124	112			10.1
	Primidone	77.7	94.1	85.5			9.64
	Propoxur	73.8	63.4	60.4			4.76
	Pyraclostrobin	75.3	87.7	84.2			4.08
	Silvex	76.8	98.7	85.7			14.1
	Sucralose	96.7	62.3	65.5			4.88
	Thiamethoxam	84.6	98.2	108			9.83
	Tolfenpyrad	51.6	53.7	50.5			6.14
	Triclopyr	68.8	82.7	85.0			2.79
SM 2320 B-2011	Total Alkalinity	99.3				1.09	
	Total Alkalinity	95.5				0.838	
SM 2540 C-2015	TDS	98.9				7.87	
	TDS	95.3				4.80	
SM 2540 D-2015	TSS	96.5					
	TSS	94.0				4.76	
SM 4500-F- C-2011	Fluoride	99.0	98.5	97.8			0.463
	Fluoride	101	99.4	98.6			0.473
SM 5310 B-2011	Organic Carbon	96.9	95.7	96.3			0.562
	Organic Carbon	98.0	92.3	91.0			1.30

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2386353, 2386355, 2386357, 2386359, 2386361
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2386353, 2386355, 2386357, 2386359, 2386361
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2386353, 2386355, 2386357, 2386359, 2386361
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2386353, 2386355, 2386357, 2386359, 2386361
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2386354, 2386356, 2386358, 2386360, 2386362
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2386354, 2386356, 2386358, 2386360, 2386362
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2386354, 2386356, 2386358, 2386360, 2386362
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2386354, 2386356, 2386358, 2386360, 2386362
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2386377, 2386379
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2386376, 2386378
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2386377, 2386379
EPA 8270E	PCBs in water matrices by GC/MS/MS	2386376, 2386378
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2386376, 2386378
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2386372, 2386374
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2386373, 2386375
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2386353, 2386355, 2386357, 2386359, 2386361
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2386353, 2386355, 2386357, 2386359, 2386361
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2386353, 2386355, 2386357, 2386359, 2386361
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2386353, 2386355, 2386357, 2386359, 2386361
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2386354, 2386356, 2386358, 2386360, 2386362

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	02/09/2023			02/09/2023 15:15	Anna M. Plaviak	2386353, 2386355
	02/09/2023			02/09/2023 15:16	Anna M. Plaviak	2386357, 2386359
	02/09/2023			02/09/2023 15:17	Anna M. Plaviak	2386361
EPA 180.1 Rev. 2.0	02/09/2023			02/09/2023 13:39	Chandler E Cox	2386353
	02/09/2023			02/09/2023 13:48	Chandler E Cox	2386355
	02/09/2023			02/09/2023 13:49	Chandler E Cox	2386357, 2386359
EPA 300.0 Rev. 2.1	02/09/2023			02/09/2023 13:50	Chandler E Cox	2386361
	02/09/2023			02/18/2023 09:39	Anna M. Plaviak	2386353
	02/09/2023			02/18/2023 09:54	Anna M. Plaviak	2386355
	02/09/2023			02/18/2023 10:09	Anna M. Plaviak	2386357
	02/09/2023			02/18/2023 10:24	Anna M. Plaviak	2386359
	02/09/2023			02/18/2023 13:39	Anna M. Plaviak	2386361
EPA 350.1 Rev. 2.0	02/09/2023			02/16/2023 13:19	Ping Hua	2386360
	02/09/2023			02/20/2023 10:45	Ping Hua	2386358
	02/09/2023			02/20/2023 10:46	Ping Hua	2386362
	02/09/2023			02/21/2023 10:19	Ping Hua	2386354
	02/09/2023			02/21/2023 10:20	Ping Hua	2386356
EPA 351.2 Rev. 2.0	02/09/2023	02/15/2023 11:45	Samantha L Bates	02/22/2023 15:16	Samantha L Bates	2386362
	02/09/2023	02/15/2023 11:45	Samantha L Bates	02/22/2023 15:35	Samantha L Bates	2386358
	02/09/2023	02/15/2023 11:46	Samantha L Bates	02/17/2023 15:48	Samantha L Bates	2386354
	02/09/2023	02/15/2023 11:46	Samantha L Bates	02/17/2023 15:49	Samantha L Bates	2386356
	02/09/2023	02/15/2023 11:46	Samantha L Bates	02/17/2023 16:07	Samantha L Bates	2386360
EPA 353.2 Rev. 2.0	02/09/2023			02/14/2023 11:53	Beverly Y. Sanders	2386358
	02/09/2023			02/14/2023 11:54	Beverly Y. Sanders	2386360
	02/09/2023			02/14/2023 11:55	Beverly Y. Sanders	2386362
	02/09/2023			02/17/2023 09:42	Beverly Y. Sanders	2386356
	02/09/2023			02/17/2023 09:58	Beverly Y. Sanders	2386354
EPA 365.1 Rev. 2.0	02/09/2023	02/13/2023 12:58	Alexis Price	02/14/2023 11:12	James L Waggeberby	2386354
	02/09/2023	02/13/2023 12:58	Alexis Price	02/14/2023 11:27	James L Waggeberby	2386356
	02/09/2023	02/14/2023 13:21	Adam P Silver	02/15/2023 14:43	Simonne.V. Calhoun	2386358
	02/09/2023	02/14/2023 13:21	Adam P Silver	02/15/2023 16:12	Simonne.V. Calhoun	2386360
	02/09/2023	02/24/2023 12:02	Adam P Silver	02/27/2023 11:23	James L Waggeberby	2386362
EPA 8270E	02/09/2023	02/10/2023 08:00	Fe-Val Siddell	02/14/2023 21:07	Arthur Maknenko	2386377
	02/09/2023	02/10/2023 08:00	Fe-Val Siddell	02/14/2023 21:32	Arthur Maknenko	2386379
	02/09/2023	02/10/2023 08:00	Fe-Val Siddell	02/17/2023 19:08	Michael Poppell	2386377
	02/09/2023	02/10/2023 08:00	Fe-Val Siddell	02/17/2023 19:35	Michael Poppell	2386379
	02/09/2023	02/13/2023 08:00	Fe-Val Siddell	02/14/2023 21:10	Vandana T. Nagar	2386376
	02/09/2023	02/13/2023 08:00	Fe-Val Siddell	02/14/2023 21:40	Vandana T. Nagar	2386378
	02/09/2023	02/13/2023 08:00	Fe-Val Siddell	02/17/2023 17:20	Vandana T. Nagar	2386376
	02/09/2023	02/13/2023 08:00	Fe-Val Siddell	02/17/2023 17:49	Vandana T. Nagar	2386378

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8276	02/09/2023	02/13/2023 08:00	Fe-Val Siddell	02/17/2023 04:17	Lipi Saha	2386376
	02/09/2023	02/13/2023 08:00	Fe-Val Siddell	02/17/2023 05:12	Lipi Saha	2386378
EPA 8321B	02/09/2023	02/13/2023 09:30	June Rhew	02/13/2023 18:43	Juyoung Kim	2386372
	02/09/2023	02/13/2023 09:30	June Rhew	02/13/2023 19:39	Juyoung Kim	2386374
	02/09/2023	02/13/2023 10:00	Manjita Shrestha	02/13/2023 15:49	Manjita Shrestha	2386373
	02/09/2023	02/13/2023 10:00	Manjita Shrestha	02/13/2023 16:03	Manjita Shrestha	2386375
	02/09/2023	02/13/2023 10:00	Manjita Shrestha	02/13/2023 23:00	Manjita Shrestha	2386373
	02/09/2023	02/13/2023 10:00	Manjita Shrestha	02/13/2023 23:13	Manjita Shrestha	2386375
	02/09/2023	02/13/2023 10:00	Manjita Shrestha	02/14/2023 04:14	Manjita Shrestha	2386373
	02/09/2023	02/14/2023 12:00	June Rhew	02/14/2023 22:43	Juyoung Kim	2386373
	02/09/2023	02/14/2023 12:00	June Rhew	02/14/2023 23:39	Juyoung Kim	2386375
	02/09/2023	02/14/2023 12:00	June Rhew	02/15/2023 10:51	Juyoung Kim	2386373
SM 2320 B-2011	02/09/2023			02/15/2023 22:36	Dale L. Simmons	2386353
	02/09/2023			02/15/2023 22:49	Dale L. Simmons	2386355
	02/09/2023			02/17/2023 05:32	Chandler E Cox	2386357
	02/09/2023			02/17/2023 05:46	Chandler E Cox	2386359
	02/09/2023			02/17/2023 06:22	Chandler E Cox	2386361
SM 2540 C-2015	02/09/2023			02/10/2023 16:01	Yijie Li	2386353, 2386355, 2386357, 2386359, 2386361
SM 2540 D-2015	02/09/2023			02/10/2023 16:01	Yijie Li	2386353, 2386355, 2386357, 2386359, 2386361
SM 4500-F- C-2011	02/09/2023			02/15/2023 19:51	Dale L. Simmons	2386353
	02/09/2023			02/15/2023 19:57	Dale L. Simmons	2386355
	02/09/2023			02/17/2023 05:32	Chandler E Cox	2386357
	02/09/2023			02/17/2023 05:46	Chandler E Cox	2386359
	02/09/2023			02/17/2023 06:22	Chandler E Cox	2386361
SM 5310 B-2011	02/09/2023			02/14/2023 16:21	Elise M. Gillis	2386358
	02/09/2023			02/14/2023 16:35	Elise M. Gillis	2386360
	02/09/2023			02/14/2023 16:50	Elise M. Gillis	2386362
	02/09/2023			02/15/2023 01:01	Elise M. Gillis	2386354
	02/09/2023			02/15/2023 01:31	Elise M. Gillis	2386356