

Chemical Analysis Report

SE-DIST-2023-12-05-01

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

Event Description: **Broward / Palm Beach**
Request ID: **RQ-2023-11-13-52**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
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FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
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Date Certified: 05-JAN-2024 10:57



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: ICWW AT ALSDORF PUBLIC PARK

Collection Date/Time: 12/04/2023 12:00

Field ID: G4SE0148

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2454320	DEP SOP: NU-094-1	Color (true)	12		PCU	P438511	
	EPA 180.1 Rev. 2.0	Turbidity	0.60	I	NTU	P438522	
	EPA 300.0 Rev. 2.1	Chloride	1.3E+04		mg Cl/L	P438811	
		Sulfate	1.8E+03		mg SO4/L	P438815	
	SM 2320 B-2011	Total Alkalinity	135		mg CaCO3/L	P438763	
	SM 2540 C-2015	TDS	2.26E+04		mg/L	P439144	
	SM 2540 D-2015	TSS	5	IA	mg/L	P439133	
	SM 4500-F- C-2011	Fluoride	0.90		mg F/L	P439292	
2454321	EPA 350.1 Rev. 2.0	Ammonia-N	0.039		mg N/L	P438666	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.41		mg N/L	P438528	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.12		mg N/L	P438599	
	EPA 365.1 Rev. 2.0	Total-P	0.032		mg P/L	P438616	
	SM 5310 B-2011	Organic Carbon	4.5		mg C/L	P438606	

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: 12/04/2023 12:30

Field ID: G4SE0147

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2454322	DEP SOP: NU-094-1	Color (true)	11		PCU	P438511	
	EPA 180.1 Rev. 2.0	Turbidity	1.0	I	NTU	P438522	
	EPA 300.0 Rev. 2.1	Chloride	1.5E+04		mg Cl/L	P438811	
		Sulfate	2.1E+03		mg SO4/L	P438815	
	SM 2320 B-2011	Total Alkalinity	134		mg CaCO3/L	P438763	
	SM 2540 C-2015	TDS	2.63E+04		mg/L	P439144	
	SM 2540 D-2015	TSS	4	I	mg/L	P439133	
	SM 4500-F- C-2011	Fluoride	1.0		mg F/L	P439292	
2454323	EPA 350.1 Rev. 2.0	Ammonia-N	0.044		mg N/L	P438666	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.36	I	mg N/L	P438528	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.098		mg N/L	P438599	
	EPA 365.1 Rev. 2.0	Total-P	0.15		mg P/L	P438616	
	SM 5310 B-2011	Organic Carbon	4.2		mg C/L	P438606	
2454332	EPA 8321B	Aldicarb	0.020	U	ug/L	P438497	
		Aldicarb Sulfone	0.0020	U	ug/L	P438497	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P438497	
		Carbaryl	0.0020	U	ug/L	P438497	
		Carbofuran	0.0020	U	ug/L	P438497	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P438497	
		Methiocarb	0.0020	U	ug/L	P438497	
		Methomyl	0.0020	U	ug/L	P438497	
		Oxamyl	0.0020	U	ug/L	P438497	
		Propoxur	0.0020	U	ug/L	P438497	
2454333		2,4-D	0.0066	I	ug/L	P438413	
		Acesulfame K	0.10	U	ug/L	P438435	
		2,4,5-T	0.0040	U	ug/L	P438413	
		AMPA	1.0	U	ug/L	P438435	
		Acetaminophen	0.0080	U	ug/L	P438413	
		Acetamiprid	0.0020	U	ug/L	P438413	
		Endothall	0.25	U	ug/L	P438435	
		Glufosinate	1.0	U	ug/L	P438435	
		Glyphosate	1.0	U	ug/L	P438435	
		Afidopyropen	0.0020	U	ug/L	P438413	
		Bentazon	0.025		ug/L	P438413	
		Sucralose	0.050		ug/L	P438435	
		Benzovindiflupyr	0.0020	U	ug/L	P438413	
		Carbamazepine	8.0E-04	U	ug/L	P438413	
		Clothianidin	0.0020	U	ug/L	P438413	
		Dinotefuran	0.0020	U	ug/L	P438413	
		Diuron	0.0034	I	ug/L	P438413	
		Fenuron	0.032	U	ug/L	P438413	
		Fluridone	0.011		ug/L	P438413	
		Imazapyr	0.046		ug/L	P438413	
Hydrocodone	0.0020	U	ug/L	P438413			

Field ID: G4SE0147

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2454333	EPA 8321B	Ibuprofen	0.080	U	ug/L	P438413	
		Imidacloprid	0.012		ug/L	P438413	
		Linuron	0.0040	U	ug/L	P438413	
		Mandestrobin	0.0020	U	ug/L	P438413	
		MCP	0.0020	U	ug/L	P438413	
		Naproxen	0.0080	U	ug/L	P438413	
		Primidone	0.0040	U	ug/L	P438413	
		Pyraclostrobin	0.0020	U	ug/L	P438413	
		Silvex	0.0040	U	ug/L	P438413	
		Thiamethoxam	0.0020	U	ug/L	P438413	
		Tolfenpyrad	0.0020	U	ug/L	P438413	
		Triclopyr	0.0040	U	ug/L	P438413	
2454361	EPA 8270E	Aldrin	0.65	U	ng/L	P438606	
		Alpha-BHC	0.10	U	ng/L	P438606	MS
		Alpha-Chlordane	0.20	U	ng/L	P438606	
		PCB-1016	2.0	U	ng/L	P438606	MS
		Beta-BHC	0.10	U	ng/L	P438606	
		PCB-1221	2.0	U	ng/L	P438606	
		Beta-Cyfluthrin	1.3	U	ng/L	P438606	
		PCB-1232	2.0	U	ng/L	P438606	
		Bifenthrin	0.50	U	ng/L	P438606	
		PCB-1242	2.0	U	ng/L	P438606	
		PCB-1248	2.0	U	ng/L	P438606	
		Chlorothalonil	3.6	U	ng/L	P438606	
		PCB-1254	2.0	U	ng/L	P438606	
		Cis-Nonachlor	0.20	U	ng/L	P438606	
		PCB-1260	2.0	U	ng/L	P438606	MS
		Cypermethrin	1.5	U	ng/L	P438606	
		Dacthal	0.15	U	ng/L	P438606	
		DDD-p,p'	0.25	U	ng/L	P438606	
		DDE-p,p'	0.20	U	ng/L	P438606	
		DDT-p,p'	0.80	U	ng/L	P438606	
		Delta-BHC	0.40	U	ng/L	P438606	
		Deltamethrin	1.3	U	ng/L	P438606	
		Dichlobenil	0.25	U	ng/L	P438606	RPD
		Dicofol	1.3	U	ng/L	P438606	
		Dieldrin	0.40	U	ng/L	P438606	MS
		Endosulfan I	0.40	U	ng/L	P438606	RPD
		Endosulfan II	0.91	U	ng/L	P438606	
		Endosulfan Sulfate	0.30	U	ng/L	P438606	RPD
		Endrin	0.91	U	ng/L	P438606	
		Endrin Aldehyde	0.75	U	ng/L	P438606	RPD
		Endrin Ketone	0.40	U	ng/L	P438606	
		Esfenvalerate	0.75	U	ng/L	P438606	
		Ethalfuralin	0.15	U	ng/L	P438606	

Field ID: G4SE0147

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2454361	EPA 8270E	Fenpropathrin	0.25	U	ng/L	P438606	MS
		Gamma-BHC	0.13	U	ng/L	P438606	MS
		Gamma-Chlordane	0.20	U	ng/L	P438606	
		Heptachlor	0.20	U	ng/L	P438606	
		Heptachlor Epoxide	0.25	U	ng/L	P438606	
		Hexachlorobenzene**	1.0	U	ng/L	P438606	MS, RPD
		Kepone	14	U	ng/L	P438606	
		Lambda-Cyhalothrin	0.75	U	ng/L	P438606	
		Methoprene	0.75	U	ng/L	P438606	
		Methoxychlor	0.30	U	ng/L	P438606	MS
		MGK-264	0.20	U	ng/L	P438606	
		Mirex	0.35	U	ng/L	P438606	
		Oxychlordane	0.30	U	ng/L	P438606	MS, RPD
		Permethrin	1.6	U	ng/L	P438606	
		Phenothrin	0.91	U	ng/L	P438606	
		Piperonyl Butoxide	1.2		ng/L	P438606	
		Prallethrin	2.0	U	ng/L	P438606	
		Tau-Fluvalinate	0.25	U	ng/L	P438606	RPD
		Tetramethrin	0.75	U	ng/L	P438606	
		Trans-Nonachlor	0.20	U	ng/L	P438606	
		Triclosan Methyl	0.15	U	ng/L	P438606	
		Trifluralin	0.20	U	ng/L	P438606	
		Chlordane	2.0	U	ng/L	P438606	
		Toxaphene	15	U	ng/L	P438606	
2454362	EPA 8270E	Oxybenzone**	10	UJ	ng/L	P438743	LCS, MS
		Acetochlor	0.21	U	ng/L	P438743	
		Octinoxate**	160	U	ng/L	P438743	MS
		Alachlor	0.42	U	ng/L	P438743	
		Avobenzone**	100	U	ng/L	P438743	MS
		Ametryn	1.2	U	ng/L	P438743	
		Atrazine	18		ng/L	P438743	
		PBDE-47**	4.2	U	ng/L	P438743	MS
		Atrazine Desethyl	1.4	U	ng/L	P438743	
		PBDE-99**	5.2	U	ng/L	P438743	MS
		Azinphos Methyl	3.1	U	ng/L	P438743	
		Tri-o-cresyl Phosphate**	6.3	UJ	ng/L	P438743	LCS, MS
		Azoxystrobin	0.42	U	ng/L	P438743	
		Bromacil	0.63	U	ng/L	P438743	
		2-Ethylhexyl	13	U	ng/L	P438743	MS
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.47	U	ng/L	P438743	
		Dechlorane Plus**	31	U	ng/L	P438743	
		Caffeine**	21	I	ng/L	P438743	
		Dechlorane 602**	5.2	U	ng/L	P438743	MS
		Carbophenothion	0.52	U	ng/L	P438743	

Field ID: G4SE0147

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2454362	EPA 8270E	Dechlorane 603**	4.2	U	ng/L	P438743	
		Carfentrazone Ethyl	0.16	U	ng/L	P438743	
		Hexabromobenzene**	6.3	U	ng/L	P438743	
		Chlorfenapyr	0.31	U	ng/L	P438743	
		PBB-153**	6.3	U	ng/L	P438743	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P438743	
		Pentabromotoluene**	3.1	U	ng/L	P438743	MS, RPD
		Chlorpyrifos Methyl	0.10	U	ng/L	P438743	
		Tris(2-chloroethyl) phosphate (TCEP)**	58	U	ng/L	P438743	MS
		Coumaphos	1.1	U	ng/L	P438743	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	26	U	ng/L	P438743	
		Cyanazine	5.2	U	ng/L	P438743	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	UJ	ng/L	P438743	LCS, MS
		Cyprodinil	0.21	U	ng/L	P438743	
		Tetradecachloro-m-terphenyl**	7.9	U	ng/L	P438743	MS
		Demeton	3.7	U	ng/L	P438743	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	63	U	ng/L	P438743	MS
		Diazinon	0.13	U	ng/L	P438743	
		Difenoconazole	0.63	U	ng/L	P438743	
		Dimethenamid	0.10	U	ng/L	P438743	
		Dimethomorph	0.31	U	ng/L	P438743	
		Disulfoton	0.63	U	ng/L	P438743	
		Dithiopyr	1.0	U	ng/L	P438743	
		EPTC	0.52	U	ng/L	P438743	
		Ethion	0.31	U	ng/L	P438743	
		Ethoprop	0.13	U	ng/L	P438743	
		Etridiazole	0.10	U	ng/L	P438743	
		Fenamiphos	0.47	U	ng/L	P438743	
		Fenbuconazole	0.52	U	ng/L	P438743	
		Fipronil	0.31	I	ng/L	P438743	
		Fipronil Desulfinyl**	0.12	I	ng/L	P438743	
		Fipronil Sulfide	0.29	I	ng/L	P438743	
		Fipronil Sulfone	0.63	J	ng/L	P438743	
		Fluazifop-P-butyl	0.10	UJ	ng/L	P438743	LCS, MS
		Fludioxonil	0.10	U	ng/L	P438743	
		Flumioxazin	3.1	U	ng/L	P438743	
		Flutolanil	0.10	U	ng/L	P438743	
		Fluxapyroxad	0.92	IJ	ng/L	P438743	CCV
		Fonofos	0.16	U	ng/L	P438743	
		Hexazinone	0.52	U	ng/L	P438743	
		Imazalil	0.68	UJ	ng/L	P438743	CCV
		Iprodione	0.52	U	ng/L	P438743	
		Loratadine**	0.31	U	ng/L	P438743	
		Malathion	0.37	U	ng/L	P438743	

Field ID: G4SE0147

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2454362	EPA 8270E	Metalaxyl	0.52	U	ng/L	P438743	
		Metolachlor	1.1	I	ng/L	P438743	
		Metribuzin	0.42	U	ng/L	P438743	
		Mevinphos	1.0	U	ng/L	P438743	
		Molinate	0.26	U	ng/L	P438743	
		Myclobutanil	0.37	U	ng/L	P438743	
		Naled	2.6	U	ng/L	P438743	
		Napropamide	0.73	U	ng/L	P438743	
		Norflurazon	1.0	U	ng/L	P438743	MS
		Oxadiazon	5.3	J	ng/L	P438743	
		Oxyfluorfen	0.21	U	ng/L	P438743	
		Parathion Ethyl	0.16	UJ	ng/L	P438743	LCS
		Parathion Methyl	0.21	U	ng/L	P438743	
		Pendimethalin	1.8	U	ng/L	P438743	
		Phenytol**	5.6	U	ng/L	P438743	
		Phorate	0.26	U	ng/L	P438743	
		Prodiamine	0.21	U	ng/L	P438743	
		Prometon	3.1	U	ng/L	P438743	
		Prometryn	0.37	U	ng/L	P438743	MS
		Pronamide	0.10	U	ng/L	P438743	
		Propanil	0.10	U	ng/L	P438743	
		Propargite	0.84	U	ng/L	P438743	
		Propiconazole	0.63	U	ng/L	P438743	
		Pyraflufen Ethyl	0.31	U	ng/L	P438743	
		Pyridaben	1.5	U	ng/L	P438743	
		Pyriproxyfen	0.26	UJ	ng/L	P438743	CCV
		Simazine	0.26	U	ng/L	P438743	
		Stirophos	0.42	U	ng/L	P438743	
		Sulfentrazone	28	J	ng/L	P438743	CCV
		Tebuconazole	1.5	U	ng/L	P438743	
		Terbufos	0.21	U	ng/L	P438743	
		Terbutylazine	0.21	U	ng/L	P438743	
		Thiobencarb	0.52	U	ng/L	P438743	
		Triadimefon	0.16	U	ng/L	P438743	

Ref. Method and Comment:

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

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.

EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8270E: MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked. Estimation for fipronil sulfone and oxadiazon due to internal standard recovery exceeding control limits. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: E 4 AT CLINT MOORE

Collection Date/Time: 12/04/2023 13:15

Field ID: G3SE0019

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2454324	DEP SOP: NU-094-1	Color (true)	81		PCU	P438511	
	EPA 180.1 Rev. 2.0	Turbidity	1.6		NTU	P438522	
	EPA 300.0 Rev. 2.1	Chloride	39		mg Cl/L	P438811	
		Sulfate	9.4		mg SO4/L	P438815	
	SM 2320 B-2011	Total Alkalinity	177		mg CaCO3/L	P438936	
	SM 2540 C-2015	TDS	263		mg/L	P439143	
	SM 2540 D-2015	TSS	2	I	mg/L	P439129	
	SM 4500-F- C-2011	Fluoride	0.14		mg F/L	P438938	
2454325	EPA 350.1 Rev. 2.0	Ammonia-N	0.27		mg N/L	P438574	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P438650	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.15		mg N/L	P438731	
	EPA 365.1 Rev. 2.0	Total-P	0.14		mg P/L	P438615	
	SM 5310 B-2011	Organic Carbon	14		mg C/L	P438605	

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P438511

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P438522

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438811

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438815

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438574

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438666

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438528

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438650

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438599

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438731

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438615

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438616

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

Reference Method: EPA 8270E
Batch ID: P438606

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.80	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	14	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P438606

Component	Result	Code	Units
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Oxychlorane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8270E

Batch ID: P438743

Component	Result	Code	Units
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	60	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.45	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P438743

Component	Result	Code	Units
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	150	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	6.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.7	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P438743

Component	Result	Code	Units
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	25	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	55	U	ng/L

Reference Method: EPA 8276

Batch ID: P438606

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

Reference Method: EPA 8321B

Batch ID: P438413

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P438413

Component	Result	Code	Units
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P438435

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: P438497

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

Reference Method: SM 2320 B-2011
Batch ID: P438763

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

Reference Method: SM 2320 B-2011
Batch ID: P438936

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

Reference Method: SM 2540 C-2015
Batch ID: P439143

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report Method Blank Results

Reference Method: SM 2540 C-2015
Batch ID: P439144

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P439129

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P439133

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P438938

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P439292

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P438605

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

Reference Method: SM 5310 B-2011
Batch ID: P438606

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: P438511

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	102		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P438522

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438811

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438815

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438574

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438666

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438528

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438650

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438599

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P438731

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

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P438615

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

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P438616

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

Reference Method: EPA 8270E

Batch ID: P438606

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	42.2		P	30 - 96.0
Alpha-BHC	80.3		P	70 - 109
Alpha-Chlordane	92.0		P	45 - 107
Beta-BHC	104		P	64 - 138
Beta-Cyfluthrin	88.9		P	17 - 141
Bifenthrin	59.7		P	10 - 113
Chlorothalonil	87.7		P	26 - 180
Cis-Nonachlor	87.9		P	37 - 102
Cypermethrin	94.0		P	20 - 133
Dacthal	86.3		P	69 - 114
DDD-p,p'	90.4		P	42 - 105
DDE-p,p'	64.4		P	42 - 106
DDT-p,p'	69.2		P	42 - 107
Delta-BHC	102		P	67 - 144
Deltamethrin	98.1		P	15 - 149
Dichlobenil	82.1		P	46 - 117
Dicofol	72.8		P	34 - 114
Dieldrin	75.7		P	50 - 108
Endosulfan I	83.6		P	55 - 104
Endosulfan II	90.2		P	51 - 111
Endosulfan Sulfate	77.2		P	56 - 121
Endrin	92.7		P	10 - 106
Endrin Aldehyde	72.0		P	34 - 114
Endrin Ketone	95.4		P	63 - 177
Esfenvalerate	76.6		P	29 - 143
Ethalfuralin	71.7		P	46 - 96.0
Fenpropathrin	66.2		P	28 - 115
Gamma-BHC	94.9		P	65 - 121
Gamma-Chlordane	84.4		P	39 - 103
Heptachlor	68.0		P	39 - 94.0
Heptachlor Epoxide	93.4		P	54 - 104
Hexachlorobenzene	81.3		P	36 - 100
Kepone	92.8		P	10 - 225
Lambda-Cyhalothrin	82.8		P	10 - 135

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P438606

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Methoprene	69.2		P	10 - 109
Methoxychlor	91.4		P	52 - 112
MGK-264	78.8		P	44 - 117
Mirex	60.1		P	20 - 90.0
Oxychlordane	64.9		P	44 - 102
PCB-1016	84.7		P	45 - 107
PCB-1260	110		P	40 - 118
Permethrin	83.5		P	18 - 135
Phenothrin	68.1		P	10 - 102
Piperonyl Butoxide	110		P	28 - 156
Prallethrin	84.3		P	28 - 113
Tau-Fluvalinate	95.4		P	10 - 123
Tetramethrin	88.5		P	18 - 158
Trans-Nonachlor	97.2		P	39 - 104
Triclosan Methyl	80.9		P	54 - 108
Trifluralin	90.3		P	46 - 97.0

Reference Method: EPA 8270E

Batch ID: P438743

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	90.1		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	127		P	37 - 154
Acetochlor	95.8		P	60 - 124
Alachlor	104		P	54 - 122
Ametryn	141		P	51 - 208
Atrazine	109		P	57 - 131
Atrazine Desethyl	116		P	13 - 124
Avobenzone	150		P	48 - 193
Azinphos Methyl	201		P	43 - 276
Azoxystrobin	148		P	52 - 300
Bromacil	107		P	44 - 134
Butylate	70.0		P	23 - 82.0
Caffeine	116		P	10 - 277
Carbophenothion	129		P	47 - 135
Carfentrazone Ethyl	137		P	46 - 147
Chlorfenapyr	87.2		P	43 - 114
Chlorpyrifos Ethyl	73.0		P	47 - 124
Chlorpyrifos Methyl	89.3		P	60 - 135
Coumaphos	101		P	10 - 222
Cyanazine	179		P	10 - 257
Cyprodinil	109		P	42 - 148
Dechlorane 602	71.5		P	23 - 142
Dechlorane 603	137		P	51 - 171
Dechlorane Plus	111		P	46 - 161
Demeton	127		P	41 - 137
Diazinon	129		P	64 - 139
Difenoconazole	61.8		P	46 - 254
Dimethenamid	92.0		P	47 - 117
Dimethomorph	169		P	14 - 255
Disulfoton	127		P	52 - 130
Dithiopyr	115		P	40 - 121

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P438743

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
EPTC	57.7		P	19 - 78.0
Ethion	35.3		P	12 - 124
Ethoprop	130		P	68 - 144
Etridiazole	61.8		P	26 - 96.0
Fenamiphos	114		P	41 - 129
Fenbuconazole	82.4		P	26 - 169
Fipronil	101		P	46 - 145
Fipronil Desulfinyl	109		P	47 - 136
Fipronil Sulfide	114		P	41 - 127
Fipronil Sulfone	101		P	35 - 133
Fluazifop-P-butyl	139		F	46 - 131
Fludioxonil	82.1		P	51 - 124
Flumioxazin	107		P	10 - 289
Flutolanil	82.4		P	34 - 130
Fluxapyroxad	99.0		P	10 - 197
Fonofos	81.4		P	42 - 131
Hexabromobenzene	134		P	52 - 165
Hexazinone	108		P	64 - 125
Imazalil	88.4		P	37 - 252
Iprodione	196		P	34 - 265
Loratadine	187		P	20 - 231
Malathion	146		P	34 - 164
Metalaxyl	108		P	49 - 125
Metolachlor	115		P	54 - 125
Metribuzin	135		P	51 - 139
Mevinphos	111		P	46 - 130
Molinate	91.2		P	39 - 93.0
Myclobutanil	92.9		P	50 - 130
Naled	23.7		P	10 - 150
Napropamide	62.8		P	10 - 109
Norflurazon	127		P	36 - 134
Octinoxate	172		P	29 - 176
Oxadiazon	85.0		P	43 - 112
Oxybenzone	146		F	45 - 145
Oxyfluorfen	109		P	62 - 154
Parathion Ethyl	127		F	65 - 120
Parathion Methyl	156		P	77 - 185
PBB-153	137		P	42 - 179
PBDE-47	90.5		P	44 - 141
PBDE-99	108		P	36 - 141
Pendimethalin	137		P	50 - 146
Pentabromotoluene	142		P	58 - 148
Phenytoin	51.6		P	10 - 157
Phorate	158		P	54 - 161
Prodiamine	67.7		P	29 - 160
Prometon	93.3		P	38 - 145
Prometryn	120		P	32 - 151
Pronamide	110		P	61 - 140
Propanil	115		P	50 - 147
Propargite	73.3		P	10 - 190
Propiconazole	93.6		P	30 - 146
Pyraflufen Ethyl	135		P	30 - 147

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P438743

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pyridaben	86.0		P	15 - 195
Pyriproxyfen	95.1		P	31 - 218
Simazine	113		P	45 - 139
Stirophos	35.3		P	10 - 134
Sulfentrazone	119		P	53 - 186
Tebuconazole	56.6		P	10 - 133
Terbufos	141		P	65 - 151
Terbutylazine	99.3		P	62 - 117
Tetradecachloro-m-terphenyl	222		P	30 - 235
Thiobencarb	108		P	48 - 122
Tri-o-cresyl Phosphate	154		F	50 - 150
Triadimefon	89.4		P	46 - 124
Tris(1-chloro-2-propyl) phosphate (TCPP)	60.1		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	60.5		F	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	64.1		P	59 - 166

Reference Method: EPA 8276

Batch ID: P438606

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	99.8		P	52 - 117
Toxaphene	109		P	44 - 125

Reference Method: EPA 8321B

Batch ID: P438413

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	98.5		P	40 - 150
2,4,5-T	110		P	40 - 150
Acetaminophen	88.9		P	30 - 150
Acetamiprid	90.0		P	40 - 150
Afidopyropen	83.0		P	30 - 150
Bentazon	68.3		P	30 - 150
Benzovindiflupyr	87.3		P	40 - 150
Carbamazepine	81.0		P	40 - 150
Clothianidin	88.3		P	40 - 150
Dinotefuran	101		P	40 - 150
Diuron	66.3		P	40 - 150
Fenuron	99.8		P	40 - 150
Fluridone	89.9		P	40 - 150
Hydrocodone	90.0		P	40 - 150
Ibuprofen	69.6		P	40 - 150
Imazapyr	90.0		P	40 - 150
Imidacloprid	86.1		P	40 - 150
Linuron	81.7		P	40 - 150
Mandestrobin	89.3		P	40 - 150
MCPP	92.5		P	40 - 150
Naproxen	67.6		P	40 - 150
Primidone	85.0		P	40 - 150
Pyraclostrobin	79.0		P	40 - 150
Silvex	91.3		P	40 - 150
Thiamethoxam	92.5		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P438413

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Tolfenpyrad	46.7		P	30 - 150
Triclopyr	114		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P438435

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	134		P	40 - 150
AMPA	73.8		P	40 - 160
Endothall	114		P	40 - 160
Glufosinate	90.5		P	40 - 160
Glyphosate	87.9		P	40 - 160
Sucralose	101		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P438497

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	82.9		P	40 - 150
Aldicarb	74.3		P	30 - 150
Aldicarb Sulfone	100		P	40 - 150
Aldicarb Sulfoxide	104		P	40 - 150
Carbaryl	73.6		P	40 - 150
Carbofuran	72.9		P	40 - 150
Methiocarb	62.7		P	40 - 150
Methomyl	93.0		P	40 - 150
Oxamyl	94.8		P	40 - 150
Propoxur	73.9		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P438763

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.6		P	92 - 105

Reference Method: SM 2320 B-2011
Batch ID: P438936

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.7		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P439143

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	103		P	85 - 115

Reference Method: SM 2540 C-2015
Batch ID: P439144

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	103		P	85 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2540 D-2015
Batch ID: P439129

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	106		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P439133

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	106		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P438938

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P439292

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

Reference Method: SM 5310 B-2011
Batch ID: P438605

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

Reference Method: SM 5310 B-2011
Batch ID: P438606

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438811

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454505	Chloride	101		P	90 - 110
2454527	Chloride	98.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438815

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454505	Sulfate	101		P	90 - 110
2454527	Sulfate	98.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438574

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454299	Ammonia-N	95.2	99.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438666

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454321	Ammonia-N	102	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438528

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454422	Kjeldahl Nitrogen	105	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438650

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454300	Kjeldahl Nitrogen	103	97.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438599

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454064	NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438731

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455137	NO2NO3-N	99.4	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438615

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454477	Total-P	108	107	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P438616

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454423	Total-P	102	100	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P438606

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454573	PCB-1016	91.3	114	P/F	45 - 107
2454573	PCB-1260	110	130	P/F	40 - 112
2455436	Aldrin	40.5	36.2	P/P	24 - 81.0
2455436	Alpha-BHC	55.5	58.9	F/F	65 - 110
2455436	Alpha-Chlordane	51.8	56.8	P/P	43 - 119
2455436	Beta-BHC	89.3	75.7	P/P	54 - 165
2455436	Beta-Cyfluthrin	64.0	61.5	P/P	27 - 165
2455436	Bifenthrin	46.9	56.2	P/P	17 - 117
2455436	Chlorothalonil	94.7	76.6	P/P	10 - 255
2455436	Cis-Nonachlor	58.0	57.6	P/P	34 - 98.0
2455436	Cypermethrin	42.3	55.5	P/P	25 - 143
2455436	Dacthal	72.7	63.5	P/P	55 - 139
2455436	DDD-p,p'	49.8	66.2	P/P	30 - 109
2455436	DDE-p,p'	56.4	55.2	P/P	35 - 106
2455436	DDT-p,p'	52.7	43.0	P/P	41 - 101
2455436	Delta-BHC	87.1	69.8	P/P	58 - 165
2455436	Deltamethrin	53.7	39.3	P/P	10 - 194
2455436	Dichlobenil	81.4	49.6	P/P	22 - 114
2455436	Dicofol	53.5	52.5	P/P	17 - 133
2455436	Dieldrin	22.9	22.1	F/F	45 - 129
2455436	Endosulfan I	64.5	50.1	P/P	49 - 104
2455436	Endosulfan II	57.7	66.6	P/P	37 - 117
2455436	Endosulfan Sulfate	98.5	51.9	P/P	38 - 128
2455436	Endrin	49.6	62.3	P/P	35 - 116
2455436	Endrin Aldehyde	72.6	28.7	P/P	19 - 108
2455436	Endrin Ketone	57.7	72.6	P/P	44 - 134
2455436	Esfenvalerate	60.4	71.5	P/P	27 - 176
2455436	Ethalfuralin	64.3	54.2	P/P	49 - 100
2455436	Fenpropathrin	42.3	33.4	P/F	34 - 117
2455436	Gamma-BHC	67.2	54.3	P/F	59 - 129
2455436	Gamma-Chlordane	47.9	50.4	P/P	33 - 107
2455436	Heptachlor	50.8	43.4	P/P	37 - 94.0
2455436	Heptachlor Epoxide	69.9	52.6	P/P	38 - 118
2455436	Hexachlorobenzene	29.4	48.8	F/P	35 - 97.0
2455436	Kepone	37.1	33.5	P/P	10 - 221
2455436	Lambda-Cyhalothrin	42.9	55.0	P/P	23 - 190
2455436	Methoprene	46.9	37.9	P/P	21 - 109
2455436	Methoxychlor	42.8	58.8	F/P	46 - 118
2455436	MGK-264	68.4	53.6	P/P	39 - 122
2455436	Mirex	49.2	36.6	P/P	25 - 90.0
2455436	Oxychlordane	53.5	35.3	P/F	42 - 100
2455436	Permethrin	51.1	61.2	P/P	33 - 181
2455436	Phenothrin	55.5	70.7	P/P	12 - 125
2455436	Piperonyl Butoxide	86.9	69.1	P/P	10 - 178
2455436	Prallethrin	51.8	46.1	P/P	24 - 122
2455436	Tau-Fluvalinate	53.1	93.0	P/P	13 - 151

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P438606

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455436	Tetramethrin	65.5	64.2	P/P	16 - 172
2455436	Trans-Nonachlor	58.5	51.2	P/P	39 - 100
2455436	Triclosan Methyl	63.1	47.0	P/P	43 - 110
2455436	Trifluralin	60.7	49.2	P/P	45 - 94.0

Reference Method: EPA 8270E

Batch ID: P438743

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455364	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	156	134	F/P	50 - 150
2455364	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	184	152	F/P	29 - 155
2455364	Acetochlor	91.7	83.7	P/P	60 - 124
2455364	Alachlor	111	111	P/P	54 - 122
2455364	Ametryn	116	111	P/P	51 - 208
2455364	Atrazine Desethyl	98.3	98.0	P/P	13 - 124
2455364	Avobenzone	206	178	F/P	35 - 187
2455364	Azinphos Methyl	129	144	P/P	43 - 276
2455364	Azoxystrobin	92.9	97.6	P/P	52 - 300
2455364	Bromacil	87.5	85.0	P/P	44 - 134
2455364	Butylate	69.9	62.4	P/P	23 - 82.0
2455364	Caffeine	126	119	P/P	10 - 277
2455364	Carbophenothion	129	114	P/P	47 - 135
2455364	Carfentrazone Ethyl	146	127	P/P	46 - 147
2455364	Chlorfenapyr	84.5	89.8	P/P	43 - 114
2455364	Chlorpyrifos Ethyl	121	119	P/P	47 - 124
2455364	Chlorpyrifos Methyl	66.7	79.4	P/P	60 - 135
2455364	Coumaphos	76.6	94.4	P/P	10 - 222
2455364	Cyanazine	134	126	P/P	10 - 257
2455364	Cyprodinil	76.8	96.6	P/P	42 - 148
2455364	Dechlorane 602	153	114	F/P	14 - 133
2455364	Dechlorane 603	146	98.5	P/P	18 - 191
2455364	Dechlorane Plus	126	88.0	P/P	23 - 154
2455364	Demeton	102	99.6	P/P	41 - 137
2455364	Diazinon	112	113	P/P	64 - 139
2455364	Difenoconazole	82.9	91.3	P/P	46 - 254
2455364	Dimethenamid	84.4	82.2	P/P	47 - 117
2455364	Dimethomorph	170	181	P/P	14 - 255
2455364	Disulfoton	101	97.4	P/P	52 - 130
2455364	Dithiopyr	76.4	77.7	P/P	40 - 121
2455364	EPTC	52.8	51.5	P/P	19 - 78.0
2455364	Ethion	107	104	P/P	12 - 124
2455364	Ethoprop	111	111	P/P	68 - 144
2455364	Etridiazole	60.4	55.8	P/P	26 - 96.0
2455364	Fenamiphos	127	118	P/P	41 - 129
2455364	Fenbuconazole	53.1	62.7	P/P	26 - 169
2455364	Fipronil	95.1	112	P/P	46 - 145
2455364	Fipronil Desulfinyl	58.8	60.9	P/P	47 - 136
2455364	Fipronil Sulfide	95.8	113	P/P	41 - 127
2455364	Fipronil Sulfone	53.3	67.5	P/P	35 - 133
2455364	Fluazifop-P-butyl	129	140	P/F	46 - 131
2455364	Fludioxonil	91.9	72.4	P/P	51 - 124
2455364	Flumioxazin	128	127	P/P	10 - 289

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P438743

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455364	Flutolanil	119	97.8	P/P	34 - 130
2455364	Fluxapyroxad	131	175	P/P	10 - 197
2455364	Fonofos	99.7	112	P/P	42 - 131
2455364	Hexabromobenzene	155	134	P/P	47 - 178
2455364	Hexazinone	109	109	P/P	64 - 125
2455364	Imazalil	89.0	65.6	P/P	37 - 252
2455364	Iprodione	167	154	P/P	34 - 265
2455364	Loratadine	125	155	P/P	20 - 231
2455364	Malathion	115	121	P/P	34 - 164
2455364	Metalaxyl	86.6	85.2	P/P	49 - 125
2455364	Metolachlor	82.0	91.2	P/P	54 - 125
2455364	Metribuzin	126	122	P/P	51 - 139
2455364	Mevinphos	88.3	90.2	P/P	46 - 130
2455364	Molinate	83.8	76.0	P/P	39 - 93.0
2455364	Myclobutanil	101	85.8	P/P	50 - 130
2455364	Naled	18.6	19.8	P/P	10 - 150
2455364	Napropamide	98.1	69.1	P/P	10 - 109
2455364	Norflurazon	127	150	P/F	36 - 134
2455364	Octinoxate	271	223	F/F	18 - 170
2455364	Oxadiazon	50.1	56.3	P/P	43 - 112
2455364	Oxybenzone	184	153	F/P	33 - 154
2455364	Oxyfluorfen	132	105	P/P	62 - 154
2455364	Parathion Ethyl	114	96.5	P/P	65 - 120
2455364	Parathion Methyl	153	129	P/P	77 - 185
2455364	PBB-153	178	147	P/P	23 - 193
2455364	PBDE-47	160	136	F/P	31 - 139
2455364	PBDE-99	174	145	F/F	24 - 138
2455364	Pendimethalin	106	99.8	P/P	50 - 146
2455364	Pentabromotoluene	175	140	F/P	54 - 152
2455364	Phenytoin	115	110	P/P	10 - 157
2455364	Phorate	132	129	P/P	54 - 161
2455364	Prodiamine	54.0	57.9	P/P	29 - 160
2455364	Prometon	138	128	P/P	38 - 145
2455364	Prometryn	147	151	P/F	32 - 151
2455364	Pronamide	92.5	92.5	P/P	61 - 140
2455364	Propanil	106	105	P/P	50 - 147
2455364	Propargite	134	130	P/P	10 - 190
2455364	Propiconazole	113	140	P/P	30 - 146
2455364	Pyraflufen Ethyl	145	111	P/P	30 - 147
2455364	Pyridaben	172	183	P/P	15 - 195
2455364	Pyriproxyfen	98.8	114	P/P	31 - 218
2455364	Simazine	87.8	91.6	P/P	45 - 139
2455364	Stirophos	41.1	49.7	P/P	10 - 134
2455364	Sulfentrazone	67.5	97.7	P/P	53 - 186
2455364	Tebuconazole	129	129	P/P	10 - 133
2455364	Terbufos	116	122	P/P	65 - 151
2455364	Terbuthylazine	84.1	89.8	P/P	62 - 117
2455364	Tetradecachloro-m-terphenyl	267	213	F/P	10 - 260
2455364	Thiobencarb	83.0	81.9	P/P	48 - 122
2455364	Tri-o-cresyl Phosphate	177	154	F/F	32 - 151
2455364	Triadimefon	65.6	63.8	P/P	46 - 124
2455364	Tris(1-chloro-2-propyl) phosphate (TCPP)	54.2	53.0	P/P	51 - 154

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P438743

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455364	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	59.2	55.0	P/F	59 - 147
2455364	Tris(2-chloroethyl) phosphate (TCEP)	65.8	62.7	P/F	65 - 156

Reference Method: EPA 8276

Batch ID: P438606

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454573	Chlordane	80.5	101	P/P	43 - 123
2454573	Toxaphene	71.2	95.2	P/P	27 - 156

Reference Method: EPA 8321B

Batch ID: P438413

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2453787	2,4-D	105	80.3	P/P	40 - 150
2453787	2,4,5-T	94.1	79.0	P/P	40 - 150
2453787	Acetaminophen	106	91.7	P/P	30 - 150
2453787	Acetamiprid	77.4	67.6	P/P	40 - 150
2453787	Afidopyropen	81.6	73.4	P/P	30 - 150
2453787	Benzovindiflupyr	98.0	82.0	P/P	40 - 150
2453787	Carbamazepine	81.9	72.5	P/P	40 - 150
2453787	Clothianidin	113	98.1	P/P	40 - 150
2453787	Dinotefuran	112	95.3	P/P	40 - 150
2453787	Diuron	75.0	65.4	P/P	40 - 150
2453787	Fenuron	86.4	79.7	P/P	40 - 150
2453787	Fluridone	94.5	81.1	P/P	40 - 150
2453787	Hydrocodone	90.5	79.4	P/P	40 - 150
2453787	Ibuprofen	70.9	58.7	P/P	40 - 150
2453787	Imidacloprid	141	120	P/P	40 - 150
2453787	Linuron	82.4	68.2	P/P	40 - 150
2453787	Mandestrobin	98.8	84.8	P/P	40 - 150
2453787	MCPP	103	86.8	P/P	40 - 150
2453787	Naproxen	90.0	69.1	P/P	40 - 150
2453787	Primidone	109	94.2	P/P	40 - 150
2453787	Pyraclostrobin	91.3	79.9	P/P	40 - 150
2453787	Silvex	101	81.7	P/P	40 - 150
2453787	Thiamethoxam	101	89.0	P/P	40 - 150
2453787	Tolfenpyrad	64.4	55.4	P/P	30 - 150
2453787	Triclopyr	100	84.0	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P438435

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2453829	Acesulfame K	127	129	P/P	40 - 150
2453829	AMPA	75.3	82.9	P/P	40 - 160
2453829	Endothall	127	126	P/P	40 - 160
2453829	Glufosinate	82.1	81.9	P/P	40 - 160
2453829	Glyphosate	86.3	92.1	P/P	40 - 160
2453829	Sucralose	54.8	70.4	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P438497

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2453865	3-Hydroxycarbofuran	64.7	74.8	P/P	40 - 150
2453865	Aldicarb	57.9	67.8	P/P	30 - 150
2453865	Aldicarb Sulfone	87.1	95.8	P/P	40 - 150
2453865	Aldicarb Sulfoxide	45.2	51.0	P/P	40 - 150
2453865	Carbaryl	70.7	74.2	P/P	40 - 150
2453865	Carbofuran	66.7	72.0	P/P	40 - 150
2453865	Methiocarb	58.8	65.5	P/P	40 - 150
2453865	Methomyl	78.0	87.6	P/P	40 - 150
2453865	Oxamyl	80.0	88.6	P/P	40 - 150
2453865	Propoxur	67.6	74.0	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P438938

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454527	Fluoride	101	101	P/P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P439292

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457008	Fluoride	102	102	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P438605

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454325	Organic Carbon	98.7	96.0	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P438606

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454321	Organic Carbon	89.1	90.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P438511

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454238	Color (true)	4.16	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P438522

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454228	Turbidity	0.513	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438811

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454505	Chloride	0.377	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438815

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454505	Sulfate	0.981	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438574

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454299	Ammonia-N	2.42	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438666

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454321	Ammonia-N	0.442	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438528

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454422	Kjeldahl Nitrogen	2.45	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438650

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454300	Kjeldahl Nitrogen	5.70	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438599

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454064	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438731

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455137	NO2NO3-N	0.423	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438615

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454477	Total-P	1.40	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438616

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454423	Total-P	1.61	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P438606

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454573	PCB-1016	22.4	Spike	P	0 - 25
2454573	PCB-1260	17.0	Spike	P	0 - 30
2455436	Aldrin	11.3	Spike	P	0 - 41
2455436	Alpha-BHC	5.87	Spike	P	0 - 25
2455436	Alpha-Chlordane	9.06	Spike	P	0 - 32
2455436	Beta-BHC	16.5	Spike	P	0 - 33
2455436	Beta-Cyfluthrin	3.95	Spike	P	0 - 43
2455436	Bifenthrin	18.2	Spike	P	0 - 52
2455436	Chlorothalonil	21.1	Spike	P	0 - 82
2455436	Cis-Nonachlor	0.665	Spike	P	0 - 33
2455436	Cypermethrin	27.1	Spike	P	0 - 51
2455436	Dacthal	13.5	Spike	P	0 - 27
2455436	DDD-p,p'	28.2	Spike	P	0 - 39
2455436	DDE-p,p'	2.15	Spike	P	0 - 31
2455436	DDT-p,p'	20.2	Spike	P	0 - 29
2455436	Delta-BHC	22.0	Spike	P	0 - 35
2455436	Deltamethrin	31.1	Spike	P	0 - 100
2455436	Dichlobenil	48.5	Spike	F	0 - 40
2455436	Dicofol	1.90	Spike	P	0 - 37
2455436	Dieldrin	1.08	Spike	P	0 - 27
2455436	Endosulfan I	25.2	Spike	F	0 - 23
2455436	Endosulfan II	14.4	Spike	P	0 - 34
2455436	Endosulfan Sulfate	61.9	Spike	F	0 - 36

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P438606

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455436	Endrin	22.7	Spike	P	0 - 45
2455436	Endrin Aldehyde	86.8	Spike	F	0 - 76
2455436	Endrin Ketone	22.9	Spike	P	0 - 43
2455436	Esfenvalerate	16.8	Spike	P	0 - 51
2455436	Ethalfuralin	17.2	Spike	P	0 - 22
2455436	Fenpropathrin	23.4	Spike	P	0 - 49
2455436	Gamma-BHC	21.3	Spike	P	0 - 28
2455436	Gamma-Chlordane	5.11	Spike	P	0 - 40
2455436	Heptachlor	15.9	Spike	P	0 - 29
2455436	Heptachlor Epoxide	25.0	Spike	P	0 - 33
2455436	Hexachlorobenzene	49.5	Spike	F	0 - 36
2455436	Kepone	3.63	Spike	P	0 - 85
2455436	Lambda-Cyhalothrin	24.7	Spike	P	0 - 55
2455436	Methoprene	21.3	Spike	P	0 - 53
2455436	Methoxychlor	31.7	Spike	P	0 - 50
2455436	MGK-264	24.2	Spike	P	0 - 43
2455436	Mirex	29.3	Spike	P	0 - 40
2455436	Oxychlordane	41.1	Spike	F	0 - 31
2455436	Permethrin	18.0	Spike	P	0 - 50
2455436	Phenothrin	24.1	Spike	P	0 - 58
2455436	Piperonyl Butoxide	22.8	Spike	P	0 - 100
2455436	Prallethrin	11.7	Spike	P	0 - 39
2455436	Tau-Fluvalinate	54.7	Spike	F	0 - 54
2455436	Tetramethrin	2.07	Spike	P	0 - 51
2455436	Trans-Nonachlor	13.3	Spike	P	0 - 39
2455436	Triclosan Methyl	29.2	Spike	P	0 - 31
2455436	Trifluralin	21.1	Spike	P	0 - 22

Reference Method: EPA 8270E

Batch ID: P438743

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455364	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	15.2	Spike	P	0 - 30
2455364	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	19.0	Spike	P	0 - 35
2455364	Acetochlor	9.09	Spike	P	0 - 28
2455364	Alachlor	0.0134	Spike	P	0 - 30
2455364	Ametryn	4.56	Spike	P	0 - 32
2455364	Atrazine	2.01	Spike	P	0 - 33
2455364	Atrazine Desethyl	0.273	Spike	P	0 - 36
2455364	Avobenzone	14.8	Spike	P	0 - 35
2455364	Azinphos Methyl	11.1	Spike	P	0 - 62
2455364	Azoxystrobin	4.88	Spike	P	0 - 39
2455364	Bromacil	2.91	Spike	P	0 - 33
2455364	Butylate	11.3	Spike	P	0 - 51
2455364	Caffeine	4.57	Spike	P	0 - 100
2455364	Carbophenothion	12.7	Spike	P	0 - 34
2455364	Carfentrazone Ethyl	14.4	Spike	P	0 - 33
2455364	Chlorfenapyr	6.03	Spike	P	0 - 28
2455364	Chlorpyrifos Ethyl	1.60	Spike	P	0 - 31
2455364	Chlorpyrifos Methyl	17.5	Spike	P	0 - 27

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P438743

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455364	Coumaphos	20.8	Spike	P	0 - 62
2455364	Cyanazine	5.84	Spike	P	0 - 48
2455364	Cyprodinil	22.9	Spike	P	0 - 29
2455364	Dechlorane 602	28.6	Spike	P	0 - 60
2455364	Dechlorane 603	38.5	Spike	P	0 - 40
2455364	Dechlorane Plus	35.6	Spike	P	0 - 38
2455364	Demeton	2.21	Spike	P	0 - 33
2455364	Diazinon	0.738	Spike	P	0 - 32
2455364	Difenoconazole	9.65	Spike	P	0 - 71
2455364	Dimethenamid	2.73	Spike	P	0 - 60
2455364	Dimethomorph	6.14	Spike	P	0 - 61
2455364	Disulfoton	4.01	Spike	P	0 - 30
2455364	Dithiopyr	1.71	Spike	P	0 - 28
2455364	EPTC	2.46	Spike	P	0 - 56
2455364	Ethion	2.92	Spike	P	0 - 79
2455364	Ethoprop	0.454	Spike	P	0 - 31
2455364	Etridiazole	7.88	Spike	P	0 - 43
2455364	Fenamiphos	7.84	Spike	P	0 - 43
2455364	Fenbuconazole	16.6	Spike	P	0 - 79
2455364	Fipronil	16.5	Spike	P	0 - 46
2455364	Fipronil Desulfinyf	3.60	Spike	P	0 - 36
2455364	Fipronil Sulfide	15.5	Spike	P	0 - 34
2455364	Fipronil Sulfone	19.4	Spike	P	0 - 47
2455364	Fluazifop-P-butyl	8.18	Spike	P	0 - 38
2455364	Fludioxonil	23.8	Spike	P	0 - 29
2455364	Flumioxazin	0.873	Spike	P	0 - 63
2455364	Flutolanil	19.2	Spike	P	0 - 36
2455364	Fluxapyroxad	28.4	Spike	P	0 - 65
2455364	Fonofos	11.6	Spike	P	0 - 35
2455364	Hexabromobenzene	14.6	Spike	P	0 - 41
2455364	Hexazinone	0.420	Spike	P	0 - 31
2455364	Imazalil	30.3	Spike	P	0 - 52
2455364	Iprodione	8.29	Spike	P	0 - 49
2455364	Loratadine	21.6	Spike	P	0 - 59
2455364	Malathion	4.96	Spike	P	0 - 77
2455364	Metalaxyl	1.58	Spike	P	0 - 76
2455364	Metolachlor	9.89	Spike	P	0 - 29
2455364	Metribuzin	3.14	Spike	P	0 - 51
2455364	Mevinphos	2.07	Spike	P	0 - 31
2455364	Molinate	9.80	Spike	P	0 - 39
2455364	Myclobutanil	16.3	Spike	P	0 - 34
2455364	Naled	6.62	Spike	P	0 - 37
2455364	Napropamide	34.6	Spike	P	0 - 100
2455364	Norflurazon	16.7	Spike	P	0 - 54
2455364	Octinoxate	19.5	Spike	P	0 - 35
2455364	Oxadiazon	8.05	Spike	P	0 - 34
2455364	Oxybenzone	17.9	Spike	P	0 - 35
2455364	Oxyfluorfen	23.4	Spike	P	0 - 28
2455364	Parathion Ethyl	16.6	Spike	P	0 - 31
2455364	Parathion Methyl	16.9	Spike	P	0 - 29
2455364	PBB-153	19.5	Spike	P	0 - 49

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P438743

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455364	PBDE-47	16.3	Spike	P	0 - 36
2455364	PBDE-99	17.6	Spike	P	0 - 46
2455364	Pendimethalin	5.97	Spike	P	0 - 31
2455364	Pentabromotoluene	22.3	Spike	F	0 - 16
2455364	Phenytoin	4.37	Spike	P	0 - 100
2455364	Phorate	1.83	Spike	P	0 - 36
2455364	Prodiamine	6.95	Spike	P	0 - 68
2455364	Prometon	7.48	Spike	P	0 - 35
2455364	Prometryn	2.71	Spike	P	0 - 33
2455364	Pronamide	0.0135	Spike	P	0 - 24
2455364	Propanil	0.552	Spike	P	0 - 28
2455364	Propargite	3.20	Spike	P	0 - 53
2455364	Propiconazole	21.8	Spike	P	0 - 44
2455364	Pyraflufen Ethyl	26.6	Spike	P	0 - 61
2455364	Pyridaben	6.42	Spike	P	0 - 43
2455364	Pyriproxyfen	14.3	Spike	P	0 - 82
2455364	Simazine	4.27	Spike	P	0 - 29
2455364	Stirophos	18.9	Spike	P	0 - 100
2455364	Sulfentrazone	36.5	Spike	P	0 - 64
2455364	Tebuconazole	0.230	Spike	P	0 - 76
2455364	Terbufos	5.33	Spike	P	0 - 29
2455364	Terbuthylazine	6.54	Spike	P	0 - 28
2455364	Tetradecachloro-m-terphenyl	22.4	Spike	P	0 - 42
2455364	Thiobencarb	1.34	Spike	P	0 - 26
2455364	Tri-o-cresyl Phosphate	14.0	Spike	P	0 - 24
2455364	Triadimefon	2.75	Spike	P	0 - 40
2455364	Tris(1-chloro-2-propyl) phosphate (TCPP)	1.88	Spike	P	0 - 30
2455364	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	7.04	Spike	P	0 - 22
2455364	Tris(2-chloroethyl) phosphate (TCEP)	4.74	Spike	P	0 - 15

Reference Method: EPA 8276

Batch ID: P438606

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454573	Chlordane	22.5	Spike	P	0 - 28
2454573	Toxaphene	25.0	Spike	P	0 - 27

Reference Method: EPA 8321B

Batch ID: P438413

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2453787	2,4-D	18.8	Spike	P	0 - 30
2453787	2,4,5-T	17.4	Spike	P	0 - 30
2453787	Acetaminophen	14.6	Spike	P	0 - 30
2453787	Acetamiprid	13.5	Spike	P	0 - 30
2453787	Afidopyropen	10.7	Spike	P	0 - 30
2453787	Bentazon	13.8	Spike	P	0 - 30
2453787	Benzovindiflupyr	17.7	Spike	P	0 - 30
2453787	Carbamazepine	10.2	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P438413

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2453787	Clothianidin	12.1	Spike	P	0 - 30
2453787	Dinotefuran	15.9	Spike	P	0 - 30
2453787	Diuron	13.6	Spike	P	0 - 30
2453787	Fenuron	8.07	Spike	P	0 - 30
2453787	Fluridone	9.31	Spike	P	0 - 30
2453787	Hydrocodone	13.0	Spike	P	0 - 30
2453787	Ibuprofen	18.9	Spike	P	0 - 30
2453787	Imazapyr	17.3	Spike	P	0 - 30
2453787	Imidacloprid	14.4	Spike	P	0 - 30
2453787	Linuron	18.8	Spike	P	0 - 30
2453787	Mandestrobin	15.2	Spike	P	0 - 30
2453787	MCPPP	16.4	Spike	P	0 - 30
2453787	Naproxen	26.2	Spike	P	0 - 30
2453787	Primidone	13.6	Spike	P	0 - 30
2453787	Pyraclostrobin	13.4	Spike	P	0 - 30
2453787	Silvex	21.6	Spike	P	0 - 30
2453787	Thiamethoxam	12.7	Spike	P	0 - 30
2453787	Tolfenpyrad	15.0	Spike	P	0 - 30
2453787	Triclopyr	17.4	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P438435

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2453829	Acesulfame K	1.79	Spike	P	0 - 30
2453829	AMPA	9.72	Spike	P	0 - 30
2453829	Endothall	1.16	Spike	P	0 - 30
2453829	Glufosinate	0.333	Spike	P	0 - 30
2453829	Glyphosate	6.48	Spike	P	0 - 30
2453829	Sucralose	25.0	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P438497

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2453865	3-Hydroxycarbofuran	14.5	Spike	P	0 - 30
2453865	Aldicarb	15.8	Spike	P	0 - 30
2453865	Aldicarb Sulfone	9.49	Spike	P	0 - 30
2453865	Aldicarb Sulfoxide	12.1	Spike	P	0 - 30
2453865	Carbaryl	4.89	Spike	P	0 - 30
2453865	Carbofuran	7.72	Spike	P	0 - 30
2453865	Methiocarb	10.8	Spike	P	0 - 30
2453865	Methomyl	11.6	Spike	P	0 - 30
2453865	Oxamyl	10.2	Spike	P	0 - 30
2453865	Propoxur	8.97	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P438763

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454955	Total Alkalinity	2.56	Sample	P	0 - 3.9

Reference Method: SM 2320 B-2011
Batch ID: P438936

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454527	Total Alkalinity	0.165	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P439143

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454289	TDS	3.89	Sample	P	0 - 10

Reference Method: SM 2540 C-2015
Batch ID: P439144

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454728	TDS	2.53	Sample	P	0 - 10

Reference Method: SM 2540 D-2015
Batch ID: P439129

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454289	TSS	8.33	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P438938

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454527	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 4500-F- C-2011
Batch ID: P439292

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457008	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P438605

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454325	Organic Carbon	2.10	Spike	P	0 - 20

Quality Assurance Report

Precision

Reference Method: SM 5310 B-2011
Batch ID: P438606

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454321	Organic Carbon	1.10	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2454332
Field Sample ID: G4SE0147

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	61.9	P	30 - 160

Lab Sample ID: 2454333
Field Sample ID: G4SE0147

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	84.0	P	30 - 160
EPA 8321B	Acetaminophen-d4	77.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	65.0	P	30 - 160
EPA 8321B	Diuron-d6	56.6	P	30 - 160
EPA 8321B	Endothall-d6	83.3	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	63.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	60.8	P	30 - 160
EPA 8321B	Primidone-d5	81.1	P	30 - 160
EPA 8321B	Sucralose-d6	41.5	P	30 - 160

Lab Sample ID: 2454361
Field Sample ID: G4SE0147

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	76.2	P	37 - 129
EPA 8270E	Decachlorobiphenyl	82.8	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	49.7	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	57.7	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	86.6	P	28 - 102
EPA 8276	PCNB	97.7	P	49 - 115

Lab Sample ID: 2454362
Field Sample ID: G4SE0147

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	96.2	P	20 - 200
EPA 8270E	Simazine-d10	103	P	58 - 137
EPA 8270E	Terbufos-d10	105	P	50 - 134
EPA 8270E	Terphenyl-d14	127	P	44 - 134

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A123030

Included Lab Sample IDs: 2454320, 2454322, 2454324

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A123033

Included Lab Sample IDs: 2454320, 2454322, 2454324

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.0	99.5	P/P	95 - 105

Reference Method: EPA 8321B

Run ID: A123035

Included Lab Sample IDs: 2454333

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	156	151	P/P	60 - 160
Sucralose	116	113	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A123037

Included Lab Sample IDs: 2454333

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	85.8	88.3	P/P	60 - 160
Endothall	103	142	P/P	60 - 160
Glufosinate	84.9	88.6	P/P	60 - 160
Glyphosate	91.9	95.3	P/P	60 - 160

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A123057

Included Lab Sample IDs: 2454325

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A123063

Included Lab Sample IDs: 2454321, 2454323

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.5	100	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A123065

Included Lab Sample IDs: 2454321, 2454323, 2454325

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.3	99.4	P/P	85 - 115
Organic Carbon	99.4	112	P/P	85 - 115

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A123073
Included Lab Sample IDs: 2454333

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	96.2	94.5	P/P	50 - 150
2,4,5-T	89.5	88.0	P/P	50 - 150
3-Hydroxycarbofuran	105	108	P/P	60 - 150
Acetaminophen	105	103	P/P	60 - 160
Acetamiprid	107	106	P/P	50 - 150
Afidopyropen	99.7	108	P/P	50 - 150
Aldicarb	115	105	P/P	60 - 150
Aldicarb Sulfone	104	105	P/P	50 - 150
Aldicarb Sulfoxide	106	102	P/P	50 - 150
Bentazon	89.7	91.2	P/P	50 - 160
Benzovindiflupyr	107	105	P/P	50 - 150
Carbamazepine	109	111	P/P	60 - 150
Carbaryl	105	110	P/P	60 - 150
Carbofuran	110	109	P/P	50 - 150
Clothianidin	105	100	P/P	60 - 150
Dinotefuran	112	111	P/P	50 - 150
Diuron	105	103	P/P	60 - 160
Fenuron	105	105	P/P	60 - 150
Fluridone	112	109	P/P	60 - 160
Hydrocodone	109	112	P/P	60 - 150
Ibuprofen	95.9	87.2	P/P	50 - 160
Imazapyr	86.3	81.2	P/P	50 - 150
Imidacloprid	96.0	97.6	P/P	60 - 150
Linuron	100	99.0	P/P	60 - 150
Mandestrobin	108	110	P/P	50 - 150
MCPP	102	103	P/P	50 - 150
Methiocarb	102	93.3	P/P	50 - 150
Methomyl	104	99.7	P/P	50 - 150
Naproxen	125	102	P/P	50 - 160
Oxamyl	102	102	P/P	50 - 150
Primidone	97.7	98.7	P/P	60 - 150
Propoxur	115	110	P/P	50 - 150
Pyraclostrobin	102	102	P/P	60 - 150
Silvex	107	97.9	P/P	50 - 150
Thiamethoxam	112	112	P/P	50 - 150
Tolfenpyrad	98.3	94.7	P/P	60 - 150
Triclopyr	95.2	102	P/P	50 - 150

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A123078
Included Lab Sample IDs: 2454321, 2454323

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A123081
Included Lab Sample IDs: 2454321, 2454323

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.7	98.9	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A123112

Included Lab Sample IDs: 2454325

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A123118

Included Lab Sample IDs: 2454320, 2454322, 2454324

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	101	P/P	90 - 110
Sulfate	98.5	99.6	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A123130

Included Lab Sample IDs: 2454320, 2454322

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.4	95.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A123168

Included Lab Sample IDs: 2454325

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.1	94.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A123180

Included Lab Sample IDs: 2454323, 2454325

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A123191

Included Lab Sample IDs: 2454321

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	95.5	98.8	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A123207

Included Lab Sample IDs: 2454324

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.8	94.3	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A123207

Included Lab Sample IDs: 2454324

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

Reference Method: SM 4500-F- C-2011

Run ID: A123207

Included Lab Sample IDs: 2454324

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

Reference Method: EPA 8270E

Run ID: A123257

Included Lab Sample IDs: 2454361

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	93.3		P	80 - 120
PCB-1260	86.9		P	80 - 120

Reference Method: EPA 8276

Run ID: A123318

Included Lab Sample IDs: 2454361

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.7		P	80 - 120
Toxaphene	92.5		P	80 - 120

Reference Method: SM 4500-F- C-2011

Run ID: A123353

Included Lab Sample IDs: 2454320, 2454322

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

Reference Method: EPA 8270E

Run ID: A123394

Included Lab Sample IDs: 2454361

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	103		P	80 - 120
Alpha-Chlordane	88.2		P	80 - 120
Beta-BHC	89.2		P	80 - 120
Beta-Cyfluthrin	99.9		P	80 - 120
Bifenthrin	87.8		P	80 - 120
Chlorothalonil	96.4		P	80 - 120
Cis-Nonachlor	100		P	80 - 120
Cypermethrin	98.2		P	80 - 120
Dacthal	112		P	80 - 120
DDD-p,p'	110		P	80 - 120
DDE-p,p'	88.9		P	80 - 120
DDT-p,p'	93.9		P	80 - 120
Delta-BHC	91.3		P	80 - 120
Deltamethrin	98.0		P	80 - 120
Dichlobenil	91.5		P	80 - 120
Dicofol	98.0		P	80 - 120
Dieldrin	94.0		P	80 - 120
Endosulfan I	95.2		P	80 - 120
Endosulfan II	100		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A123394
Included Lab Sample IDs: 2454361

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endosulfan Sulfate	92.1		P	80 - 120
Endrin	99.3		P	80 - 120
Endrin Aldehyde	96.7		P	80 - 120
Endrin Ketone	101		P	80 - 120
Esfenvalerate	98.6		P	80 - 120
Ethalfuralin	88.1		P	80 - 120
Fenpropathrin	87.0		P	80 - 120
Gamma-BHC	85.3		P	80 - 120
Gamma-Chlordane	110		P	80 - 120
Heptachlor	102		P	80 - 120
Heptachlor Epoxide	100		P	80 - 120
Hexachlorobenzene	97.9		P	80 - 120
Kepone	82.8		P	80 - 120
Lambda-Cyhalothrin	104		P	80 - 120
Methoprene	97.4		P	80 - 120
Methoxychlor	98.8		P	80 - 120
MGK-264	89.8		P	80 - 120
Mirex	96.6		P	80 - 120
Oxychlordane	82.6		P	80 - 120
Permethrin	101		P	80 - 120
Phenothrin	103		P	80 - 120
Piperonyl Butoxide	106		P	80 - 120
Prallethrin	98.9		P	80 - 120
Tau-Fluvalinate	108		P	80 - 120
Tetramethrin	103		P	80 - 120
Trans-Nonachlor	115		P	80 - 120
Triclosan Methyl	85.8		P	80 - 120
Trifluralin	112		P	80 - 120

Reference Method: EPA 8270E
Run ID: A123410
Included Lab Sample IDs: 2454362

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	98.6		P	80 - 120
Alachlor	96.3		P	80 - 120
Ametryn	108		P	80 - 120
Atrazine	94.5		P	80 - 120
Atrazine Desethyl	113		P	80 - 120
Azinphos Methyl	116		P	80 - 120
Azoxystrobin	102		P	80 - 120
Bromacil	108		P	80 - 120
Butylate	102		P	80 - 120
Caffeine	107		P	80 - 120
Carbophenothion	106		P	80 - 120
Carfentrazone Ethyl	109		P	80 - 120
Chlorfenapyr	99.5		P	80 - 120
Chlorpyrifos Ethyl	93.9		P	80 - 120
Chlorpyrifos Methyl	118		P	80 - 120
Coumaphos	91.4		P	80 - 120
Cyanazine	105		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A123410
Included Lab Sample IDs: 2454362

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cyprodinil	112		P	80 - 120
Demeton	105		P	80 - 120
Diazinon	119		P	80 - 120
Difenoconazole	87.6		P	80 - 120
Dimethenamid	94.5		P	80 - 120
Dimethomorph	87.0		P	80 - 120
Disulfoton	118		P	80 - 120
Dithiopyr	103		P	80 - 120
EPTC	99.9		P	80 - 120
Ethion	93.5		P	80 - 120
Ethoprop	102		P	80 - 120
Etridiazole	99.4		P	80 - 120
Fenamiphos	90.5		P	80 - 120
Fenbuconazole	82.7		P	80 - 120
Fipronil	109		P	80 - 120
Fipronil Desulfinyl	102		P	80 - 120
Fipronil Sulfide	119		P	80 - 120
Fipronil Sulfone	97.8		P	80 - 120
Fluazifop-P-butyl	112		P	80 - 120
Fludioxonil	87.4		P	80 - 120
Flumioxazin	83.4		P	80 - 120
Flutolanil	114		P	80 - 120
Fluxapyroxad	167*		F	80 - 120
Fonofos	110		P	80 - 120
Hexazinone	93.8		P	80 - 120
Imazalil	182*		F	80 - 120
Iprodione	95.4		P	80 - 120
Loratadine	80.8		P	80 - 120
Malathion	93.8		P	80 - 120
Metaxyl	102		P	80 - 120
Metolachlor	106		P	80 - 120
Metribuzin	110		P	80 - 120
Mevinphos	87.4		P	80 - 120
Molinate	95.3		P	80 - 120
Myclobutanil	86.1		P	80 - 120
Naled	103		P	80 - 120
Napropamide	116		P	80 - 120
Norflurazon	87.8		P	80 - 120
Oxadiazon	107		P	80 - 120
Oxyfluorfen	116		P	80 - 120
Parathion Ethyl	101		P	80 - 120
Parathion Methyl	110		P	80 - 120
Pendimethalin	115		P	80 - 120
Phenytoin	88.2		P	80 - 120
Phorate	107		P	80 - 120
Prodiamine	114		P	80 - 120
Prometon	99.6		P	80 - 120
Prometryn	117		P	80 - 120
Pronamide	96.7		P	80 - 120
Propanil	97.4		P	80 - 120
Propargite	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A123410
Included Lab Sample IDs: 2454362

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Propiconazole	86.6		P	80 - 120
Pyraflufen Ethyl	109		P	80 - 120
Pyridaben	99.0		P	80 - 120
Pyriproxyfen	173*		F	80 - 120
Simazine	94.9		P	80 - 120
Stirophos	102		P	80 - 120
Sulfentrazone	212*		F	80 - 120
Tebuconazole	98.1		P	80 - 120
Terbufos	109		P	80 - 120
Terbuthylazine	87.5		P	80 - 120
Thiobencarb	105		P	80 - 120
Triadimefon	107		P	80 - 120

Reference Method: EPA 8270E
Run ID: A123463
Included Lab Sample IDs: 2454362

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	98.7		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	91.3		P	80 - 120
Avobenzone	95.5		P	80 - 120
Dechlorane 602	100		P	80 - 120
Dechlorane 603	95.1		P	80 - 120
Dechlorane Plus	94.7		P	80 - 120
Hexabromobenzene	94.0		P	80 - 120
Octinoxate	96.1		P	80 - 120
Oxybenzone	98.4		P	80 - 120
PBB-153	88.9		P	80 - 120
PBDE-47	113		P	80 - 120
PBDE-99	95.4		P	80 - 120
Pentabromotoluene	96.9		P	80 - 120
Tetradecachloro-m-terphenyl	87.1		P	80 - 120
Tri-o-cresyl Phosphate	98.9		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	98.2		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	98.6		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	99.7		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
DEP SOP: NU-094-1	Color (true)	102				4.16	
EPA 180.1 Rev. 2.0	Turbidity	103				0.513	
EPA 300.0 Rev. 2.1	Chloride	98.1	101	98.5		0.377	
	Sulfate	98.0	101	98.3		0.981	
EPA 350.1 Rev. 2.0	Ammonia-N	96.8	95.2	99.4			2.42
	Ammonia-N	98.2	102	102			0.442
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	105	102			2.45
	Kjeldahl Nitrogen	103	103	97.2			5.70
EPA 353.2 Rev. 2.0	NO2NO3-N	100	100	100			0.0
	NO2NO3-N	100	99.4	100			0.423
EPA 365.1 Rev. 2.0	Total-P	105	108	107			1.40
	Total-P	105	102	100			1.61
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntylphenol (UV-328)	90.1	156	134			15.2
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	127	184	152			19.0
	Acetochlor	95.8	91.7	83.7			9.09
	Alachlor	104	111	111			0.0134
	Aldrin	42.2	36.2	40.5			11.3
	Alpha-BHC	80.3	58.9	55.5			5.87
	Alpha-Chlordane	92.0	56.8	51.8			9.06
	Ametryn	141	116	111			4.56
	Atrazine	109					2.01
	Atrazine Desethyl	116	98.3	98.0			0.273
	Avobenzone	150	206	178			14.8
	Azinphos Methyl	201	129	144			11.1
	Azoxystrobin	148	92.9	97.6			4.88
	Beta-BHC	104	75.7	89.3			16.5
	Beta-Cyfluthrin	88.9	61.5	64.0			3.95
	Bifenthrin	59.7	56.2	46.9			18.2
	Bromacil	107	87.5	85.0			2.91
	Butylate	70.0	69.9	62.4			11.3
	Caffeine	116	126	119			4.57
	Carbophenothion	129	129	114			12.7
	Carfentrazone Ethyl	137	146	127			14.4
	Chlorfenapyr	87.2	84.5	89.8			6.03
	Chlorothalonil	87.7	76.6	94.7			21.1
	Chlorpyrifos Ethyl	73.0	121	119			1.60
	Chlorpyrifos Methyl	89.3	66.7	79.4			17.5
	Cis-Nonachlor	87.9	57.6	58.0			0.665
	Coumaphos	101	76.6	94.4			20.8
	Cyanazine	179	134	126			5.84
	Cypermethrin	94.0	55.5	42.3			27.1
	Cyprodinil	109	76.8	96.6			22.9
	Dacthal	86.3	63.5	72.7			13.5
	DDD-p,p'	90.4	66.2	49.8			28.2
	DDE-p,p'	64.4	55.2	56.4			2.15
	DDT-p,p'	69.2	43.0	52.7			20.2
	Dechlorane 602	71.5	153	114			28.6
	Dechlorane 603	137	146	98.5			38.5
	Dechlorane Plus	111	126	88.0			35.6
	Delta-BHC	102	69.8	87.1			22.0
	Deltamethrin	98.1	39.3	53.7			31.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision	MS
							SMP	
EPA 8270E	Demeton	127		102	99.6			2.21
	Diazinon	129		112	113			0.738
	Dichlobenil	82.1		49.6	81.4			48.5
	Dicofol	72.8		52.5	53.5			1.90
	Dieldrin	75.7		22.1	22.9			1.08
	Difenoconazole	61.8		82.9	91.3			9.65
	Dimethenamid	92.0		84.4	82.2			2.73
	Dimethomorph	169		170	181			6.14
	Disulfoton	127		101	97.4			4.01
	Dithiopyr	115		76.4	77.7			1.71
	Endosulfan I	83.6		50.1	64.5			25.2
	Endosulfan II	90.2		66.6	57.7			14.4
	Endosulfan Sulfate	77.2		51.9	98.5			61.9
	Endrin	92.7		62.3	49.6			22.7
	Endrin Aldehyde	72.0		28.7	72.6			86.8
	Endrin Ketone	95.4		72.6	57.7			22.9
	EPTC	57.7		52.8	51.5			2.46
	Esfenvalerate	76.6		71.5	60.4			16.8
	Ethalfuralin	71.7		54.2	64.3			17.2
	Ethion	35.3		107	104			2.92
	Ethoprop	130		111	111			0.454
	Etridiazole	61.8		60.4	55.8			7.88
	Fenamiphos	114		127	118			7.84
	Fenbuconazole	82.4		53.1	62.7			16.6
	Fenpropathrin	66.2		33.4	42.3			23.4
	Fipronil	101		95.1	112			16.5
	Fipronil Desulfinyl	109		58.8	60.9			3.60
	Fipronil Sulfide	114		95.8	113			15.5
	Fipronil Sulfone	101		53.3	67.5			19.4
	Fluazifop-P-butyl	139		129	140			8.18
	Fludioxonil	82.1		91.9	72.4			23.8
	Flumioxazin	107		128	127			0.873
	Flutolanil	82.4		119	97.8			19.2
	Fluxapyroxad	99.0		131	175			28.4
	Fonofos	81.4		99.7	112			11.6
	Gamma-BHC	94.9		54.3	67.2			21.3
	Gamma-Chlordane	84.4		50.4	47.9			5.11
	Heptachlor	68.0		43.4	50.8			15.9
	Heptachlor Epoxide	93.4		52.6	69.9			25.0
	Hexabromobenzene	134		155	134			14.6
	Hexachlorobenzene	81.3		48.8	29.4			49.5
	Hexazinone	108		109	109			0.420
	Imazalil	88.4		89.0	65.6			30.3
	Iprodione	196		167	154			8.29
	Kepone	92.8		33.5	37.1			3.63
	Lambda-Cyhalothrin	82.8		55.0	42.9			24.7
	Loratadine	187		125	155			21.6
	Malathion	146		115	121			4.96
	Metalaxyl	108		86.6	85.2			1.58
	Methoprene	69.2		37.9	46.9			21.3
	Methoxychlor	91.4		58.8	42.8			31.7
	Metolachlor	115		82.0	91.2			9.89
	Metribuzin	135		126	122			3.14
	Mevinphos	111		88.3	90.2			2.07

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	MGK-264	78.8	53.6	68.4		24.2
	Mirex	60.1	36.6	49.2		29.3
	Molinate	91.2	83.8	76.0		9.80
	Myclobutanil	92.9	101	85.8		16.3
	Naled	23.7	18.6	19.8		6.62
	Napropamide	62.8	98.1	69.1		34.6
	Norflurazon	127	127	150		16.7
	Octinoxate	172	271	223		19.5
	Oxadiazon	85.0	50.1	56.3		8.05
	Oxybenzone	146	184	153		17.9
	Oxychlordane	64.9	35.3	53.5		41.1
	Oxyfluorfen	109	132	105		23.4
	Parathion Ethyl	127	114	96.5		16.6
	Parathion Methyl	156	153	129		16.9
	PBB-153	137	178	147		19.5
	PBDE-47	90.5	160	136		16.3
	PBDE-99	108	174	145		17.6
	PCB-1016	84.7	91.3	114		22.4
	PCB-1260	110	110	130		17.0
	Pendimethalin	137	106	99.8		5.97
	Pentabromotoluene	142	175	140		22.3
	Permethrin	83.5	61.2	51.1		18.0
	Phenothrin	68.1	70.7	55.5		24.1
	Phenytol	51.6	115	110		4.37
	Phorate	158	132	129		1.83
	Piperonyl Butoxide	110	69.1	86.9		22.8
	Prallethrin	84.3	46.1	51.8		11.7
	Prodiamine	67.7	54.0	57.9		6.95
	Prometon	93.3	138	128		7.48
	Prometryn	120	147	151		2.71
	Pronamide	110	92.5	92.5		0.0135
	Propanil	115	106	105		0.552
	Propargite	73.3	134	130		3.20
	Propiconazole	93.6	113	140		21.8
	Pyraflufen Ethyl	135	145	111		26.6
	Pyridaben	86.0	172	183		6.42
	Pyriproxyfen	95.1	98.8	114		14.3
	Simazine	113	87.8	91.6		4.27
	Stirophos	35.3	41.1	49.7		18.9
	Sulfentrazon	119	67.5	97.7		36.5
	Tau-Fluvalinate	95.4	93.0	53.1		54.7
	Tebuconazole	56.6	129	129		0.230
	Terbufos	141	116	122		5.33
	Terbuthylazine	99.3	84.1	89.8		6.54
	Tetradecachloro-m-terphenyl	222	267	213		22.4
	Tetramethrin	88.5	65.5	64.2		2.07
	Thiobencarb	108	83.0	81.9		1.34
	Trans-Nonachlor	97.2	58.5	51.2		13.3
	Tri-o-cresyl Phosphate	154	177	154		14.0
	Triadimefon	89.4	65.6	63.8		2.75
	Triclosan Methyl	80.9	63.1	47.0		29.2
	Trifluralin	90.3	60.7	49.2		21.1
	Tris(1-chloro-2-propyl) phosphate (TCPP)	60.1	54.2	53.0		1.88

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	60.5	59.2	55.0			7.04
	Tris(2-chloroethyl) phosphate (TCEP)	64.1	65.8	62.7			4.74
EPA 8276	Chlordane	99.8	80.5	101			22.5
	Toxaphene	109	71.2	95.2			25.0
EPA 8321B	2,4-D	98.5	105	80.3			18.8
	2,4,5-T	110	94.1	79.0			17.4
	3-Hydroxycarbofuran	82.9	64.7	74.8			14.5
	Acesulfame K	134	127	129			1.79
	Acetaminophen	88.9	91.7	106			14.6
	Acetamiprid	90.0	77.4	67.6			13.5
	Afidopyropen	83.0	81.6	73.4			10.7
	Aldicarb	74.3	57.9	67.8			15.8
	Aldicarb Sulfone	100	87.1	95.8			9.49
	Aldicarb Sulfoxide	104	45.2	51.0			12.1
	AMPA	73.8	75.3	82.9			9.72
	Bentazon	68.3					13.8
	Benzovindiflupyr	87.3	98.0	82.0			17.7
	Carbamazepine	81.0	81.9	72.5			10.2
	Carbaryl	73.6	70.7	74.2			4.89
	Carbofuran	72.9	66.7	72.0			7.72
	Clothianidin	88.3	113	98.1			12.1
	Dinotefuran	101	95.3	112			15.9
	Diuron	66.3	75.0	65.4			13.6
	Endothall	114	127	126			1.16
	Fenuron	99.8	86.4	79.7			8.07
	Fluridone	89.9	94.5	81.1			9.31
	Glufosinate	90.5	82.1	81.9			0.333
	Glyphosate	87.9	86.3	92.1			6.48
	Hydrocodone	90.0	79.4	90.5			13.0
	Ibuprofen	69.6	70.9	58.7			18.9
	Imazapyr	90.0					17.3
	Imidacloprid	86.1	141	120			14.4
	Linuron	81.7	82.4	68.2			18.8
	Mandestrobin	89.3	98.8	84.8			15.2
	MCPP	92.5	103	86.8			16.4
	Methiocarb	62.7	58.8	65.5			10.8
	Methomyl	93.0	78.0	87.6			11.6
	Naproxen	67.6	90.0	69.1			26.2
	Oxamyl	94.8	80.0	88.6			10.2
	Primidone	85.0	94.2	109			13.6
	Propoxur	73.9	67.6	74.0			8.97
	Pyraclostrobin	79.0	91.3	79.9			13.4
	Silvex	91.3	101	81.7			21.6
	Sucralose	101	54.8	70.4			25.0
	Thiamethoxam	92.5	89.0	101			12.7
	Tolfenpyrad	46.7	64.4	55.4			15.0
	Triclopyr	114	100	84.0			17.4
SM 2320 B-2011	Total Alkalinity	95.6				2.56	
	Total Alkalinity	97.7				0.165	
SM 2540 C-2015	TDS	103				3.89	
	TDS	103				2.53	
SM 2540 D-2015	TSS	106				8.33	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
SM 2540 D-2015	TSS	106				
SM 4500-F- C-2011	Fluoride	102	101	101		0.0
	Fluoride	104	102	102		0.0
SM 5310 B-2011	Organic Carbon	96.9	98.7	96.0		2.10
	Organic Carbon	96.0	89.1	90.2		1.10

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2454320, 2454322, 2454324
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2454320, 2454322, 2454324
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2454320, 2454322, 2454324
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2454320, 2454322, 2454324
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2454321, 2454323, 2454325
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2454321, 2454323, 2454325
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2454321, 2454323, 2454325
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2454321, 2454323, 2454325
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2454362
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2454361
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2454362
EPA 8270E	PCBs in water matrices by GC/MS/MS	2454361
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2454361
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2454332
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2454333
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2454320, 2454322, 2454324
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2454320, 2454322, 2454324
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2454320, 2454322, 2454324
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2454320, 2454322, 2454324
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2454321, 2454323, 2454325

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	12/05/2023			12/05/2023 15:08	Chandler E Cox	2454320
	12/05/2023			12/05/2023 15:09	Chandler E Cox	2454322
	12/05/2023			12/05/2023 15:10	Chandler E Cox	2454324
EPA 180.1 Rev. 2.0	12/05/2023			12/05/2023 14:22	Khloe J Berg	2454320
	12/05/2023			12/05/2023 14:23	Khloe J Berg	2454322
	12/05/2023			12/05/2023 14:24	Khloe J Berg	2454324
EPA 300.0 Rev. 2.1	12/05/2023			12/09/2023 00:09	Anna M. Plaviak	2454320
	12/05/2023			12/09/2023 00:24	Anna M. Plaviak	2454322
	12/05/2023			12/09/2023 00:39	Anna M. Plaviak	2454324
EPA 350.1 Rev. 2.0	12/05/2023			12/06/2023 14:52	Ping Hua	2454325
	12/05/2023			12/07/2023 12:19	Khloe J Berg	2454321
	12/05/2023			12/07/2023 12:23	Khloe J Berg	2454323
EPA 351.2 Rev. 2.0	12/05/2023	12/06/2023 09:38	Simonne.V. Calhoun	12/07/2023 11:10	Ping Hua	2454321
	12/05/2023	12/06/2023 09:38	Simonne.V. Calhoun	12/07/2023 11:11	Ping Hua	2454323
	12/05/2023	12/08/2023 10:33	Ping Hua	12/12/2023 11:42	Samantha L Bates	2454325
EPA 353.2 Rev. 2.0	12/05/2023			12/06/2023 14:19	Fadila Guebre	2454321
	12/05/2023			12/06/2023 14:20	Fadila Guebre	2454323
	12/05/2023			12/08/2023 15:22	Fadila Guebre	2454325
EPA 365.1 Rev. 2.0	12/05/2023	12/08/2023 15:43	Adam P Silver	12/13/2023 09:03	James L Waggeberby	2454325
	12/05/2023	12/08/2023 15:43	Adam P Silver	12/13/2023 09:17	James L Waggeberby	2454323
	12/05/2023	12/08/2023 15:43	Adam P Silver	12/13/2023 12:21	James L Waggeberby	2454321
EPA 8270E	12/05/2023	12/08/2023 08:00	Fe-Val Siddell	12/13/2023 00:43	Lipi Saha	2454361
	12/05/2023	12/08/2023 08:00	Fe-Val Siddell	12/20/2023 22:24	Julie Wi	2454361
	12/05/2023	12/10/2023 11:30	Mohammad Ghaffari	12/16/2023 17:45	Vandana T. Nagar	2454362
	12/05/2023	12/10/2023 11:30	Mohammad Ghaffari	12/29/2023 20:19	Arthur Maknenko	2454362
EPA 8276	12/05/2023	12/08/2023 08:00	Fe-Val Siddell	12/19/2023 08:00	Kenedi Mills	2454361
EPA 8321B	12/05/2023	12/05/2023 12:00	Tae K Lee	12/05/2023 14:48	Hana Lee	2454333
	12/05/2023	12/05/2023 12:00	Tae K Lee	12/05/2023 15:42	Hana Lee	2454333
	12/05/2023	12/05/2023 12:00	Tae K Lee	12/05/2023 17:36	Hana Lee	2454333
	12/05/2023	12/05/2023 13:00	Hoor Shaik	12/06/2023 21:23	Juyoung Kim	2454333
SM 2320 B-2011	12/05/2023	12/06/2023 09:00	Hoor Shaik	12/07/2023 02:08	Juyoung Kim	2454332
	12/05/2023			12/08/2023 03:20	Adam P Silver	2454320
	12/05/2023			12/08/2023 03:34	Adam P Silver	2454322
	12/05/2023			12/13/2023 02:08	Dale L. Simmons	2454324
SM 2540 C-2015	12/05/2023			12/08/2023 16:18	Yijie Li	2454320, 2454322, 2454324
SM 2540 D-2015	12/05/2023			12/08/2023 16:18	Yijie Li	2454320, 2454322, 2454324
SM 4500-F- C-2011	12/05/2023			12/13/2023 02:08	Dale L. Simmons	2454324
	12/05/2023			12/20/2023 00:14	Dale L. Simmons	2454320
	12/05/2023			12/20/2023 00:51	Dale L. Simmons	2454322
SM 5310 B-2011	12/05/2023			12/06/2023 22:28	Kenneth H Lee	2454325

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 5310 B-2011	12/05/2023			12/07/2023 02:13	Kenneth H Lee	2454321
	12/05/2023			12/07/2023 03:01	Kenneth H Lee	2454323