

Chemical Analysis Report

SE-DIST-2023-09-26-03

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

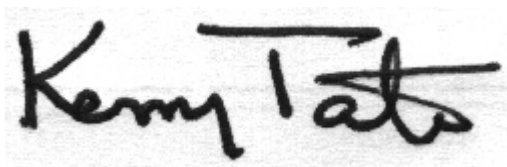
Event Description: **SMP - Basinger**
Request ID: **RQ-2023-09-11-27**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
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Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 23-OCT-2023 11:37

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive, flowing style with a horizontal line extending from the end of the name.

Case Narrative

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

Results for the following analytical groups are included in this report: Metals, Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Chandler Slough at Southern US98 Culvert

Collection Date/Time: 09/25/2023 11:45

Field ID: G4SE0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2440357	DEP SOP: NU-094-1	Color (true)	180		PCU	P435526	
	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P435529	
	EPA 300.0 Rev. 2.1	Chloride	77		mg Cl/L	P436045	
		Sulfate	38		mg SO4/L	P436048	
	SM 2320 B-2011	Total Alkalinity	37		mg CaCO3/L	P435767	
	SM 2540 C-2015	TDS	280		mg/L	P436127	
	SM 2540 D-2015	TSS	3	I	mg/L	P435855	
	SM 4500-F- C-2011	Fluoride	0.10		mg F/L	P435769	
2440358	EPA 350.1 Rev. 2.0	Ammonia-N	0.017		mg N/L	P435749	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P436040	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.021		mg N/L	P436258	
	EPA 365.1 Rev. 2.0	Total-P	0.23		mg P/L	P435692	
	SM 5310 B-2011	Organic Carbon	22		mg C/L	P435794	
2440365	EPA 8321B	Aldicarb	0.020	U	ug/L	P435381	
		Aldicarb Sulfone	0.0020	U	ug/L	P435381	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P435381	MS
		Carbaryl	0.0020	U	ug/L	P435381	
		Carbofuran	0.0020	U	ug/L	P435381	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P435381	
		Methiocarb	0.0020	U	ug/L	P435381	
		Methomyl	0.0020	U	ug/L	P435381	
		Oxamyl	0.0020	U	ug/L	P435381	
		Propoxur	0.0020	U	ug/L	P435381	
2440366		2,4-D	0.016	Q	ug/L	P435737	
		Acesulfame K	0.10	U	ug/L	P435496	
		2,4,5-T	0.0040	U	ug/L	P435567	
		AMPA	0.20	I	ug/L	P435496	
		Acetaminophen	0.0080	U	ug/L	P435567	
		Acetamiprid	0.0020	U	ug/L	P435567	
		Endothall	0.25	UJ	ug/L	P435496	MS
		Glufosinate	0.10	U	ug/L	P435496	
		Glyphosate	0.10	U	ug/L	P435496	
		Afidopyropen	0.0020	U	ug/L	P435567	
		Bentazon	0.0091		ug/L	P435567	
		Sucralose	0.010	U	ug/L	P435496	
		Benzovindiflupyr	0.0020	U	ug/L	P435567	
		Carbamazepine	8.0E-04	U	ug/L	P435567	
		Clothianidin	0.0020	U	ug/L	P435567	
		Dinotefuran	0.0020	U	ug/L	P435567	
		Diuron	0.0020	U	ug/L	P435567	
		Fenuron	0.032	U	ug/L	P435567	
		Fluridone	8.0E-04	U	ug/L	P435567	MS
		Imazapyr	0.0071	I	ug/L	P435567	
Hydrocodone	0.0020	U	ug/L	P435567			

Field ID: G4SE0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2440366	EPA 8321B	Ibuprofen	0.080	U	ug/L	P435567	
		Imidacloprid	0.0066	I	ug/L	P435567	
		Linuron	0.0040	U	ug/L	P435567	
		Mandestrobin	0.0020	U	ug/L	P435567	
		MCP	0.0020	U	ug/L	P435567	
		Naproxen	0.0080	U	ug/L	P435567	
		Primidone	0.0040	U	ug/L	P435567	
		Pyraclostrobin	0.0020	U	ug/L	P435567	
		Silvex	0.0040	U	ug/L	P435567	
		Thiamethoxam	0.0020	U	ug/L	P435567	
		Tolfenpyrad	0.0020	U	ug/L	P435567	
		Triclopyr	0.0040	U	ug/L	P435567	
2440367	EPA 8270E	Aldrin	0.67	U	ng/L	P435653	
		Alpha-BHC	0.10	U	ng/L	P435653	
		Alpha-Chlordane	0.21	U	ng/L	P435653	
		PCB-1016	2.1	U	ng/L	P435653	
		Beta-BHC	0.10	U	ng/L	P435653	
		PCB-1221	2.1	U	ng/L	P435653	
		Beta-Cyfluthrin	1.3	U	ng/L	P435653	
		PCB-1232	2.1	U	ng/L	P435653	
		Bifenthrin	0.51	U	ng/L	P435653	
		PCB-1242	2.1	U	ng/L	P435653	
		PCB-1248	2.1	U	ng/L	P435653	
		Chlorothalonil	3.7	U	ng/L	P435653	
		PCB-1254	2.1	U	ng/L	P435653	
		Cis-Nonachlor	0.21	U	ng/L	P435653	
		PCB-1260	2.1	U	ng/L	P435653	
		Cypermethrin	1.5	U	ng/L	P435653	
		Dacthal	0.15	U	ng/L	P435653	
		DDD-p,p'	0.26	U	ng/L	P435653	
		DDE-p,p'	0.21	U	ng/L	P435653	
		DDT-p,p'	0.82	U	ng/L	P435653	
		Delta-BHC	0.41	U	ng/L	P435653	
		Deltamethrin	1.3	U	ng/L	P435653	
		Dichlobenil	0.26	U	ng/L	P435653	
		Dicofol	1.3	U	ng/L	P435653	
		Dieldrin	0.41	U	ng/L	P435653	
		Endosulfan I	0.41	U	ng/L	P435653	
		Endosulfan II	0.92	U	ng/L	P435653	
		Endosulfan Sulfate	0.31	U	ng/L	P435653	
		Endrin	0.92	U	ng/L	P435653	
		Endrin Aldehyde	0.77	U	ng/L	P435653	
		Endrin Ketone	0.41	U	ng/L	P435653	
		Esfenvalerate	0.77	U	ng/L	P435653	
		Ethalfuralin	0.15	U	ng/L	P435653	

Field ID: G4SE0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2440367	EPA 8270E	Fenpropathrin	0.26	U	ng/L	P435653	RPD
		Gamma-BHC	0.13	U	ng/L	P435653	
		Gamma-Chlordane	0.22	I	ng/L	P435653	
		Heptachlor	0.21	U	ng/L	P435653	
		Heptachlor Epoxide	0.26	U	ng/L	P435653	
		Hexachlorobenzene**	1.0	U	ng/L	P435653	
		Kepone	14	U	ng/L	P435653	
		Lambda-Cyhalothrin	0.77	U	ng/L	P435653	
		Methoprene	0.77	U	ng/L	P435653	
		Methoxychlor	0.31	U	ng/L	P435653	
		MGK-264	0.21	U	ng/L	P435653	
		Mirex	0.36	U	ng/L	P435653	
		Oxychlordane	0.31	U	ng/L	P435653	
		Permethrin	1.6	U	ng/L	P435653	
		Phenothrin	0.92	U	ng/L	P435653	
		Piperonyl Butoxide	0.15	U	ng/L	P435653	
		Prallethrin	2.1	U	ng/L	P435653	
		Tau-Fluvalinate	0.26	U	ng/L	P435653	
		Tetramethrin	0.77	U	ng/L	P435653	
		Trans-Nonachlor	0.21	U	ng/L	P435653	
		Triclosan Methyl	0.15	U	ng/L	P435653	
		Trifluralin	0.21	U	ng/L	P435653	
		Chlordane	2.1	U	ng/L	P435653	
2440368	EPA 8270E	Toxaphene	15	U	ng/L	P435653	MS
		Oxybenzone**	10	U	ng/L	P435493	
		Acetochlor	0.20	U	ng/L	P435493	
		Octinoxate**	150	U	ng/L	P435493	
		Alachlor	0.41	U	ng/L	P435493	
		Avobenzone**	100	U	ng/L	P435493	
		Ametryn	1.1	U	ng/L	P435493	
		Atrazine	10		ng/L	P435493	
		PBDE-47**	4.1	U	ng/L	P435493	
		Atrazine Desethyl	1.3	U	ng/L	P435493	
		PBDE-99**	5.1	U	ng/L	P435493	
		Azinphos Methyl	3.1	U	ng/L	P435493	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P435493	
		Azoxystrobin	38	J	ng/L	P435493	
		Bromacil	0.61	U	ng/L	P435493	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P435493	
		Butylate	0.20	U	ng/L	P435493	
		Dechlorane Plus**	31	U	ng/L	P435493	
		Caffeine**	11	I	ng/L	P435493	
		Dechlorane 602**	5.1	U	ng/L	P435493	
		Carbophenothion	0.51	U	ng/L	P435493	

Field ID: G4SE0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2440368	EPA 8270E	Dechlorane 603**	4.1	U	ng/L	P435493	MS
		Carfentrazone Ethyl	0.15	U	ng/L	P435493	
		Hexabromobenzene**	6.1	U	ng/L	P435493	
		Chlorfenapyr	0.31	U	ng/L	P435493	
		PBB-153**	8.2	U	ng/L	P435493	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P435493	
		Pentabromotoluene**	3.1	U	ng/L	P435493	
		Chlorpyrifos Methyl	0.10	U	ng/L	P435493	
		Tris(2-chloroethyl) phosphate (TCEP)**	72	U	ng/L	P435493	
		Coumaphos	1.1	U	ng/L	P435493	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	15	U	ng/L	P435493	
		Cyanazine	5.1	U	ng/L	P435493	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	6.3	I	ng/L	P435493	
		Cyprodinil	0.20	U	ng/L	P435493	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P435493	
		Demeton	3.6	U	ng/L	P435493	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	61	U	ng/L	P435493	MS
		Diazinon	0.13	U	ng/L	P435493	
		Difenoconazole	0.61	U	ng/L	P435493	
		Dimethenamid	0.10	U	ng/L	P435493	
		Dimethomorph	0.31	U	ng/L	P435493	
		Disulfoton	0.61	U	ng/L	P435493	
		Dithiopyr	1.0	U	ng/L	P435493	
		EPTC	0.51	U	ng/L	P435493	
		Ethion	0.31	U	ng/L	P435493	
		Ethoprop	0.13	U	ng/L	P435493	
		Etridiazole	0.10	U	ng/L	P435493	RPD
		Fenamiphos	0.46	U	ng/L	P435493	
		Fenbuconazole	0.51	U	ng/L	P435493	
		Fipronil	0.20	U	ng/L	P435493	
		Fipronil Desulfinyl**	0.10	U	ng/L	P435493	
		Fipronil Sulfide	0.10	U	ng/L	P435493	
		Fipronil Sulfone	0.10	U	ng/L	P435493	
		Fluazifop-P-butyl	0.10	U	ng/L	P435493	
		Fludioxonil	0.10	U	ng/L	P435493	
		Flumioxazin	3.1	U	ng/L	P435493	CCV
		Flutolanil	0.67		ng/L	P435493	
		Fluxapyroxad	7.7		ng/L	P435493	
		Fonofos	0.15	U	ng/L	P435493	
		Hexazinone	53		ng/L	P435493	
		Imazalil	0.67	U	ng/L	P435493	
		Iprodione	0.51	UJ	ng/L	P435493	
		Loratadine**	0.31	U	ng/L	P435493	
		Malathion	0.36	U	ng/L	P435493	

Field ID: G4SE0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2440368	EPA 8270E	Metalaxyl	0.51	U	ng/L	P435493	LCS
		Metolachlor	460		ng/L	P435493	
		Metribuzin	0.41	UJ	ng/L	P435493	
		Mevinphos	1.0	U	ng/L	P435493	
		Molinate	0.26	U	ng/L	P435493	
		Myclobutanil	0.36	U	ng/L	P435493	
		Naled	2.6	U	ng/L	P435493	
		Napropamide	0.72	U	ng/L	P435493	
		Norflurazon	1.0	U	ng/L	P435493	
		Oxadiazon	0.36	U	ng/L	P435493	
		Oxyfluorfen	0.20	U	ng/L	P435493	
		Parathion Ethyl	0.15	U	ng/L	P435493	
		Parathion Methyl	0.20	U	ng/L	P435493	
		Pendimethalin	0.77	U	ng/L	P435493	
		Phenytol**	5.4	U	ng/L	P435493	
		Phorate	0.26	U	ng/L	P435493	
		Prodiamine	0.20	U	ng/L	P435493	
		Prometon	3.1	U	ng/L	P435493	
		Prometryn	38		ng/L	P435493	
		Pronamide	2.3		ng/L	P435493	
		Propanil	0.10	U	ng/L	P435493	
		Propargite	0.82	U	ng/L	P435493	
		Propiconazole	0.61	U	ng/L	P435493	
		Pyraflufen Ethyl	0.31	U	ng/L	P435493	
		Pyridaben	4.1	I	ng/L	P435493	CCV
		Pyriproxyfen	0.26	UJ	ng/L	P435493	
		Simazine	120		ng/L	P435493	
		Stirophos	0.41	U	ng/L	P435493	
		Sulfentrazone	3.0	I	ng/L	P435493	
		Tebuconazole	1.4	U	ng/L	P435493	
		Terbufos	0.20	U	ng/L	P435493	
		Terbutylazine	0.20	U	ng/L	P435493	
		Thiobencarb	0.51	U	ng/L	P435493	
		Triadimefon	0.15	U	ng/L	P435493	

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 imazapyr could not be assessed due to high concentration of parameter in the spiked sample. 2,4-D - reported beyond holding time due to quality control failure in the first analysis.

EPA 8321B: 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. Estimated value for azoxystrobin due to internal standard recovery exceeding control limits. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Starvation Slough at Public Use Trail

Collection Date/Time: 09/25/2023 12:30

Field ID: G4SE0144

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2440359	DEP SOP: NU-094-1	Color (true)	330		PCU	P435526	
	EPA 180.1 Rev. 2.0	Turbidity	2.7		NTU	P435529	
	EPA 300.0 Rev. 2.1	Chloride	5.5		mg Cl/L	P436045	
		Sulfate	0.23	I	mg SO4/L	P436048	
	SM 2320 B-2011	Total Alkalinity	6.5		mg CaCO3/L	P435767	
	SM 2540 C-2015	TDS	70		mg/L	P436127	
	SM 2540 D-2015	TSS	4	I	mg/L	P435855	
2440360	SM 4500-F- C-2011	Fluoride	0.027	I	mg F/L	P435769	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.013		mg N/L	P435749	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P436040	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P436258	
	EPA 365.1 Rev. 2.0	Total-P	0.045		mg P/L	P435692	
2440369	SM 5310 B-2011	Organic Carbon	24		mg C/L	P435794	
	EPA 200.7 Rev. 4.4	Calcium	4.63		mg/L	P435682	
		Iron	860		ug/L	P435682	
		Magnesium	1.09		mg/L	P435682	
		Potassium	0.86	I	mg/L	P435682	
		Sodium	3.3		mg/L	P435682	
		Strontium	33.9		ug/L	P435682	
		Tin	3.0	U	ug/L	P435682	
		Titanium	6.7		ug/L	P435682	
		Vanadium	2.0	U	ug/L	P435682	
		Zinc	9.4	I	ug/L	P435682	
	EPA 200.8 Rev. 5.4	Aluminum	140		ug/L	P435682	
		Antimony	0.050	U	ug/L	P435682	
		Arsenic	1.07		ug/L	P435682	
		Barium	4.05		ug/L	P435682	
		Beryllium	0.016	I	ug/L	P435682	
		Boron	14.0		ug/L	P435682	
		Cadmium	0.020	U	ug/L	P435682	
		Chromium	0.51	I	ug/L	P435682	
		Cobalt	0.109		ug/L	P435682	
		Copper	0.85		ug/L	P435682	
		Lead	0.20	U	ug/L	P435682	
		Manganese	9.04		ug/L	P435682	
		Molybdenum	0.15	U	ug/L	P435682	
		Nickel	0.50	U	ug/L	P435682	
		Selenium	0.20	U	ug/L	P435682	
		Silver	0.010	U	ug/L	P435682	
		Thallium	0.10	U	ug/L	P435682	
	SM 2340 B-2011	Hardness	16.1		mg/L	P435682	

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: P435526

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435529

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P435682

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Titanium	0.75	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P435682

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Barium	0.20	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.12	I	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.012	I	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436045

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436048

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435749

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436040

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436258

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435692

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

Reference Method: EPA 8270E
Batch ID: P435493

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	0.20	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P435493

Component	Result	Code	Units
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
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
Metaxyl	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	8.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	0.75	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytol	5.3	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P435493

Component	Result	Code	Units
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
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
Terbutylazine	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)	15	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L

Reference Method: EPA 8270E

Batch ID: P435653

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P435653

Component	Result	Code	Units
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
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
Oxychlordane	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 8276

Batch ID: P435653

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

Reference Method: EPA 8321B

Batch ID: P435381

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P435381

Component	Result	Code	Units
Oxamyl	0.0020	U	ug/L
Propoxur	0.0020	U	ug/L

Reference Method: EPA 8321B
Batch ID: P435496

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: P435567

Component	Result	Code	Units
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: EPA 8321B
Batch ID: P435737

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P435767

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

Reference Method: SM 2540 C-2015
Batch ID: P436127

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P435855

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P435769

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P435794

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: P435526

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.9		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435529

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P435682

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	102		P	85 - 115
Iron	103		P	85 - 115
Magnesium	105		P	85 - 115
Potassium	101		P	85 - 115
Sodium	100		P	85 - 115
Strontium	99.6		P	85 - 115
Tin	106		P	85 - 115
Titanium	102		P	85 - 115
Vanadium	102		P	85 - 115
Zinc	104		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P435682

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	97.9		P	85 - 115
Antimony	94.0		P	85 - 115
Arsenic	98.7		P	85 - 115
Barium	98.3		P	85 - 115
Beryllium	95.3		P	85 - 115
Boron	102		P	85 - 115
Cadmium	96.3		P	85 - 115
Chromium	94.2		P	85 - 115
Cobalt	98.4		P	85 - 115
Copper	96.4		P	85 - 115
Lead	90.8		P	85 - 115
Manganese	94.1		P	85 - 115
Molybdenum	96.2		P	85 - 115
Nickel	97.9		P	85 - 115
Selenium	95.6		P	85 - 115
Silver	107		P	85 - 115
Thallium	99.0		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436045

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436048

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435749

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436040

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436258

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	96.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435692

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

Reference Method: EPA 8270E
Batch ID: P435493

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	63.8		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	98.6		P	42 - 162
Acetochlor	89.0		P	69 - 123
Alachlor	73.8		P	65 - 118
Ametryn	124		P	58 - 141
Atrazine	86.0		P	73 - 118
Atrazine Desethyl	81.7		P	32 - 125
Avobenzone	101		P	40 - 203
Azinphos Methyl	95.0		P	36 - 197
Azoxystrobin	94.1		P	58 - 226
Bromacil	92.9		P	48 - 120
Butylate	59.5		P	27 - 85.0
Caffeine	96.9		P	40 - 137
Carbophenothion	93.6		P	54 - 132
Carfentrazone Ethyl	103		P	60 - 142
Chlorfenapyr	55.8		P	53 - 117
Chlorpyrifos Ethyl	99.4		P	59 - 116
Chlorpyrifos Methyl	91.4		P	66 - 119
Coumaphos	83.6		P	11 - 234
Cyanazine	145		P	61 - 248
Cyprodinil	87.6		P	50 - 147
Dechlorane 602	68.4		P	50 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
 Batch ID: P435493

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dechlorane 603	110		P	50 - 150
Dechlorane Plus	109		P	47 - 182
Demeton	69.5		P	30 - 138
Diazinon	108		P	67 - 126
Difenoconazole	63.0		P	38 - 205
Dimethenamid	76.2		P	57 - 111
Dimethomorph	183		P	16 - 212
Disulfoton	96.2		P	46 - 126
Dithiopyr	107		P	62 - 115
EPTC	63.0		P	28 - 80.0
Ethion	39.1		P	24 - 122
Ethoprop	83.8		P	62 - 113
Etridiazole	64.1		P	28 - 92.0
Fenamiphos	74.1		P	57 - 128
Fenbuconazole	58.2		P	52 - 155
Fipronil	92.9		P	63 - 130
Fipronil Desulfinyl	96.2		P	61 - 130
Fipronil Sulfide	79.0		P	56 - 117
Fipronil Sulfone	67.1		P	52 - 118
Fluazifop-P-butyl	68.3		P	61 - 128
Fludioxonil	62.9		P	59 - 129
Flumioxazin	96.8		P	30 - 250
Flutolanil	66.0		P	53 - 127
Fluxapyroxad	73.2		P	42 - 132
Fonofos	89.8		P	61 - 110
Hexabromobenzene	99.8		P	50 - 150
Hexazinone	81.8		P	46 - 139
Imazalil	89.0		P	40 - 139
Iprodione	54.0		P	40 - 146
Loratadine	124		P	10 - 224
Malathion	104		P	61 - 135
Metalaxyl	88.0		P	58 - 121
Metolachlor	99.1		P	64 - 118
Metribuzin	41.7		F	45 - 245
Mevinphos	72.7		P	49 - 118
Molinate	58.8		P	42 - 92.0
Myclobutanil	67.1		P	55 - 127
Naled	43.0		P	10 - 114
Napropamide	81.2		P	39 - 121
Norflurazon	76.5		P	55 - 129
Octinoxate	102		P	26 - 166
Oxadiazon	72.4		P	54 - 115
Oxybenzone	107		P	49 - 135
Oxyfluorfen	77.5		P	64 - 139
Parathion Ethyl	89.6		P	70 - 111
Parathion Methyl	99.1		P	76 - 136
PBB-153	106		P	50 - 150
PBDE-47	89.0		P	41 - 148
PBDE-99	76.5		P	38 - 147
Pendimethalin	74.2		P	52 - 118
Pentabromotoluene	96.5		P	50 - 150
Phenytol	28.0		P	10 - 162

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P435493

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Phorate	97.4		P	40 - 122
Prodiamine	48.9		P	26 - 141
Prometon	106		P	54 - 122
Prometryn	99.6		P	61 - 128
Pronamide	101		P	72 - 121
Propanil	93.8		P	45 - 144
Propargite	59.9		P	10 - 199
Propiconazole	72.9		P	56 - 127
Pyraflufen Ethyl	89.9		P	56 - 140
Pyridaben	86.9		P	26 - 211
Pyriproxyfen	125		P	33 - 194
Simazine	82.1		P	67 - 121
Stirophos	46.6		P	20 - 142
Sulfentrazone	39.8		P	21 - 144
Tebuconazole	47.6		P	10 - 122
Terbufos	110		P	60 - 129
Terbutylazine	82.6		P	69 - 113
Tetradecachloro-m-terphenyl	126		P	70 - 200
Thiobencarb	90.2		P	51 - 120
Tri-o-cresyl Phosphate	101		P	49 - 150
Triadimefon	85.4		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	106		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	97.4		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	108		P	70 - 180

Reference Method: EPA 8270E

Batch ID: P435653

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	52.2		P	30 - 96.0
Alpha-BHC	77.4		P	70 - 109
Alpha-Chlordane	88.3		P	45 - 107
Beta-BHC	73.8		P	64 - 138
Beta-Cyfluthrin	77.8		P	17 - 141
Bifenthrin	54.3		P	10 - 113
Chlorothalonil	107		P	26 - 180
Cis-Nonachlor	70.4		P	37 - 102
Cypermethrin	69.5		P	20 - 133
Dacthal	99.0		P	69 - 114
DDD-p,p'	61.9		P	42 - 105
DDE-p,p'	68.2		P	42 - 106
DDT-p,p'	56.4		P	42 - 107
Delta-BHC	103		P	67 - 144
Deltamethrin	76.9		P	15 - 149
Dichlobenil	74.7		P	46 - 117
Dicofol	67.4		P	34 - 114
Dieldrin	74.6		P	50 - 108
Endosulfan I	76.2		P	55 - 104
Endosulfan II	93.6		P	51 - 111
Endosulfan Sulfate	83.1		P	56 - 121
Endrin	77.6		P	10 - 106
Endrin Aldehyde	62.1		P	34 - 114

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P435653

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endrin Ketone	94.7		P	63 - 177
Esfenvalerate	64.6		P	29 - 143
Ethalfuralin	73.9		P	46 - 96.0
Fenpropathrin	71.8		P	28 - 115
Gamma-BHC	79.0		P	65 - 121
Gamma-Chlordane	73.4		P	39 - 103
Heptachlor	56.5		P	39 - 94.0
Heptachlor Epoxide	74.6		P	54 - 104
Hexachlorobenzene	78.3		P	36 - 100
Kepone	140		P	10 - 225
Lambda-Cyhalothrin	56.8		P	10 - 135
Methoprene	48.4		P	10 - 109
Methoxychlor	74.2		P	52 - 112
MGK-264	60.6		P	44 - 117
Mirex	64.9		P	20 - 90.0
Oxychlordane	70.1		P	44 - 102
PCB-1016	77.3		P	45 - 107
PCB-1260	89.1		P	40 - 118
Permethrin	73.3		P	18 - 135
Phenothrin	55.1		P	10 - 102
Piperonyl Butoxide	81.5		P	28 - 156
Prallethrin	71.7		P	28 - 113
Tau-Fluvalinate	68.8		P	10 - 123
Tetramethrin	65.5		P	18 - 158
Trans-Nonachlor	71.0		P	39 - 104
Triclosan Methyl	66.1		P	54 - 108
Trifluralin	69.8		P	46 - 97.0

Reference Method: EPA 8276

Batch ID: P435653

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	92.2		P	52 - 117
Toxaphene	99.8		P	44 - 125

Reference Method: EPA 8321B

Batch ID: P435381

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	82.1		P	40 - 150
Aldicarb	42.4		P	30 - 150
Aldicarb Sulfone	100		P	40 - 150
Aldicarb Sulfoxide	131		P	40 - 150
Carbaryl	79.5		P	40 - 150
Carbofuran	85.6		P	40 - 150
Methiocarb	64.8		P	40 - 150
Methomyl	89.5		P	40 - 150
Oxamyl	100		P	40 - 150
Propoxur	90.0		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P435496

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	95.9		P	40 - 150
AMPA	76.6		P	40 - 150
Endothall	99.7		P	40 - 150
Glufosinate	126		P	40 - 150
Glyphosate	72.5		P	40 - 150
Sucralose	99.3		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P435567

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4,5-T	119		P	40 - 150
Acetaminophen	98.9		P	30 - 150
Acetamiprid	92.1		P	40 - 150
Afidopyropen	48.0		P	30 - 150
Bentazon	93.0		P	30 - 150
Benzovindiflupyr	91.2		P	40 - 150
Carbamazepine	95.8		P	40 - 150
Clothianidin	110		P	40 - 150
Dinotefuran	116		P	40 - 150
Diuron	90.0		P	40 - 150
Fenuron	98.1		P	40 - 150
Fluridone	79.7		P	40 - 150
Hydrocodone	97.7		P	40 - 150
Ibuprofen	74.8		P	40 - 150
Imazapyr	98.0		P	40 - 150
Imidacloprid	96.6		P	40 - 150
Linuron	71.1		P	40 - 150
Mandestrobin	90.9		P	40 - 150
MCPP	110		P	40 - 150
Naproxen	70.8		P	40 - 150
Primidone	97.3		P	40 - 150
Pyraclostrobin	88.9		P	40 - 150
Silvex	85.4		P	40 - 150
Thiamethoxam	108		P	40 - 150
Tolfenpyrad	59.2		P	30 - 150
Triclopyr	114		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P435737

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	130		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P435767

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.4		P	92 - 105

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2540 C-2015
Batch ID: P436127

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	94.0		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P435855

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	92.4		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P435769

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.8		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P435794

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P435682

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440487	Calcium	98.8		P	80 - 120
2440487	Iron	102	101	P/P	80 - 120
2440487	Magnesium	104	102	P/P	80 - 120
2440487	Potassium	96.4	98.4	P/P	80 - 120
2440487	Sodium	99.9		P	80 - 120
2440487	Strontium	98.1	99.1	P/P	80 - 120
2440487	Tin	101	103	P/P	80 - 120
2440487	Titanium	92.9	95.4	P/P	80 - 120
2440487	Vanadium	98.6	101	P/P	80 - 120
2440487	Zinc	101	102	P/P	80 - 120
2441075	Calcium	102		P	80 - 120
2441075	Iron	99.7		P	80 - 120
2441075	Magnesium	104		P	80 - 120
2441075	Potassium	97.4		P	80 - 120
2441075	Sodium	99.5		P	80 - 120
2441075	Strontium	99.2		P	80 - 120
2441075	Tin	102		P	80 - 120
2441075	Titanium	101		P	80 - 120
2441075	Vanadium	103		P	80 - 120
2441075	Zinc	102		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P435682

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440487	Aluminum	101	98.7	P/P	80 - 120
2440487	Antimony	98.9	98.1	P/P	80 - 120
2440487	Arsenic	99.1	99.7	P/P	80 - 120
2440487	Barium	103	102	P/P	80 - 120
2440487	Beryllium	94.7	96.1	P/P	80 - 120
2440487	Boron	105	104	P/P	80 - 120
2440487	Cadmium	103	101	P/P	80 - 120
2440487	Chromium	95.1	94.9	P/P	80 - 120
2440487	Cobalt	96.9	96.6	P/P	80 - 120
2440487	Copper	93.9	94.5	P/P	80 - 120
2440487	Lead	93.2	93.0	P/P	80 - 120
2440487	Manganese	95.5	95.7	P/P	80 - 120
2440487	Molybdenum	101	100	P/P	80 - 120
2440487	Nickel	94.2	93.7	P/P	80 - 120
2440487	Selenium	97.1	97.7	P/P	80 - 120
2440487	Silver	109	109	P/P	80 - 120
2440487	Thallium	104	104	P/P	80 - 120
2441075	Aluminum	87.6		P	80 - 120
2441075	Antimony	93.3		P	80 - 120
2441075	Arsenic	95.2		P	80 - 120
2441075	Barium	97.3		P	80 - 120
2441075	Beryllium	88.9		P	80 - 120
2441075	Boron	97.6		P	80 - 120
2441075	Cadmium	97.5		P	80 - 120
2441075	Chromium	93.5		P	80 - 120
2441075	Cobalt	93.8		P	80 - 120
2441075	Copper	96.7		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P435682

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441075	Lead	95.5		P	80 - 120
2441075	Manganese	92.7		P	80 - 120
2441075	Molybdenum	94.7		P	80 - 120
2441075	Nickel	94.0		P	80 - 120
2441075	Selenium	93.1		P	80 - 120
2441075	Silver	104		P	80 - 120
2441075	Thallium	99.2		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436045

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440292	Chloride	104		P	90 - 110
2440473	Chloride	105		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436048

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440292	Sulfate	104		P	90 - 110
2440473	Sulfate	106		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435749

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440351	Ammonia-N	100	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436040

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440293	Kjeldahl Nitrogen	105	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436258

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440333	NO2NO3-N	95.5	95.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435692

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440436	Total-P	104	109	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P435493

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440545	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	93.3	81.7	P/P	50 - 150
2440545	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	28.5	22.9	P/F	26 - 165

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P435493

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440545	Acetochlor	103	85.9	P/P	67 - 124
2440545	Alachlor	88.1	90.2	P/P	60 - 120
2440545	Ametryn	130	115	P/P	54 - 216
2440545	Atrazine Desethyl	85.7	70.4	P/P	15 - 122
2440545	Avobenzone	83.2	96.1	P/P	37 - 178
2440545	Azinphos Methyl	78.6	92.7	P/P	40 - 292
2440545	Azoxystrobin	110	94.7	P/P	35 - 220
2440545	Bromacil	115	98.8	P/P	45 - 127
2440545	Butylate	58.6	43.0	P/P	20 - 83.0
2440545	Caffeine	112	92.6	P/P	10 - 194
2440545	Carbophenothion	109	92.5	P/P	57 - 127
2440545	Carfentrazone Ethyl	117	99.4	P/P	51 - 141
2440545	Chlorfenapyr	62.6	54.7	P/P	46 - 111
2440545	Chlorpyrifos Ethyl	97.7	82.9	P/P	52 - 120
2440545	Chlorpyrifos Methyl	91.5	78.9	P/P	63 - 119
2440545	Coumaphos	61.4	56.6	P/P	10 - 228
2440545	Cyanazine	182	126	P/P	59 - 241
2440545	Cyprodinil	81.1	63.7	P/P	47 - 146
2440545	Dechlorane 602	37.8	40.7	F/F	50 - 150
2440545	Dechlorane 603	70.5	75.5	P/P	50 - 150
2440545	Dechlorane Plus	67.6	73.9	P/P	50 - 150
2440545	Demeton	78.1	67.5	P/P	40 - 136
2440545	Diazinon	108	107	P/P	69 - 132
2440545	Difenoconazole	118	137	P/P	57 - 258
2440545	Dimethenamid	80.6	69.9	P/P	54 - 110
2440545	Dimethomorph	227	241	F/F	28 - 210
2440545	Disulfoton	101	101	P/P	43 - 133
2440545	Dithiopyr	102	88.5	P/P	39 - 116
2440545	EPTC	51.7	32.0	P/P	20 - 78.0
2440545	Ethion	44.3	42.5	P/P	17 - 119
2440545	Ethoprop	103	88.7	P/P	66 - 120
2440545	Etridiazole	66.3	52.5	P/P	28 - 96.0
2440545	Fenamiphos	63.5	58.1	P/P	41 - 126
2440545	Fenbuconazole	58.8	68.2	P/P	42 - 169
2440545	Fipronil	82.1	68.2	P/P	61 - 132
2440545	Fipronil Desulfinyl	99.7	88.5	P/P	56 - 132
2440545	Fipronil Sulfide	105	90.9	P/P	48 - 119
2440545	Fipronil Sulfone	60.2	66.0	P/P	42 - 131
2440545	Fluazifop-P-butyl	63.5	63.1	P/P	53 - 131
2440545	Fludioxonil	73.8	63.8	P/P	56 - 127
2440545	Flumioxazin	136	166	P/P	19 - 300
2440545	Flutolanil	71.4	67.7	P/P	41 - 127
2440545	Fluxapyroxad	88.1	74.8	P/P	42 - 172
2440545	Fonofos	90.8	86.5	P/P	59 - 113
2440545	Hexabromobenzene	83.1	82.9	P/P	50 - 150
2440545	Hexazinone	101	79.1	P/P	66 - 122
2440545	Imazalil	121	104	P/P	21 - 283
2440545	Iprodione	75.2	61.7	P/P	43 - 150
2440545	Loratadine	167	181	P/P	23 - 201
2440545	Malathion	120	91.0	P/P	58 - 136
2440545	Metalaxyl	96.4	81.5	P/P	55 - 120
2440545	Metolachlor	105	82.3	P/P	57 - 121

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P435493

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440545	Metribuzin	68.8	62.6	P/P	58 - 294
2440545	Mevinphos	82.2	74.2	P/P	50 - 126
2440545	Molinate	55.8	49.9	P/P	42 - 93.0
2440545	Myclobutanil	78.7	65.3	P/P	55 - 125
2440545	Naled	33.8	33.9	P/P	18 - 200
2440545	Napropamide	90.8	78.5	P/P	39 - 110
2440545	Norflurazon	75.9	74.5	P/P	48 - 128
2440545	Octinoxate	91.1	89.0	P/P	21 - 159
2440545	Oxadiazon	89.8	74.4	P/P	43 - 112
2440545	Oxybenzone	97.8	100	P/P	41 - 142
2440545	Oxyfluorfen	90.7	69.0	P/P	64 - 153
2440545	Parathion Ethyl	105	87.3	P/P	69 - 114
2440545	Parathion Methyl	108	97.9	P/P	79 - 139
2440545	PBB-153	33.2	35.2	F/F	50 - 150
2440545	PBDE-47	78.0	78.6	P/P	27 - 144
2440545	PBDE-99	22.9	25.1	P/P	18 - 150
2440545	Pendimethalin	85.9	75.0	P/P	50 - 139
2440545	Pentabromotoluene	86.2	84.1	P/P	50 - 150
2440545	Phenytoin	54.4	44.5	P/P	10 - 146
2440545	Phorate	116	116	P/P	54 - 161
2440545	Prodiamine	49.5	35.1	P/P	30 - 161
2440545	Prometon	110	96.6	P/P	45 - 134
2440545	Prometryn	104	95.5	P/P	45 - 137
2440545	Pronamide	118	95.6	P/P	65 - 133
2440545	Propanil	110	89.2	P/P	49 - 142
2440545	Propargite	60.8	50.0	P/P	10 - 203
2440545	Propiconazole	73.4	80.4	P/P	38 - 146
2440545	Pyraflufen Ethyl	73.6	81.8	P/P	34 - 153
2440545	Pyridaben	50.8	51.4	P/P	12 - 192
2440545	Pyriproxyfen	92.3	113	P/P	33 - 180
2440545	Simazine	80.3	60.5	P/P	51 - 157
2440545	Stiropfos	47.3	44.8	P/P	10 - 128
2440545	Sulfentrazone	77.7	62.0	P/P	53 - 186
2440545	Tebuconazole	56.2	50.6	P/P	10 - 133
2440545	Terbufos	124	115	P/P	65 - 139
2440545	Terbuthylazine	91.9	84.6	P/P	66 - 117
2440545	Tetradecachloro-m-terphenyl	74.0	74.2	P/P	70 - 200
2440545	Thiobencarb	95.0	79.7	P/P	51 - 119
2440545	Tri-o-cresyl Phosphate	94.8	94.1	P/P	31 - 144
2440545	Triadimefon	98.5	75.8	P/P	48 - 119
2440545	Tris(1-chloro-2-propyl) phosphate (TCPP)	104	103	P/P	50 - 150
2440545	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	97.9	93.5	P/P	50 - 150
2440545	Tris(2-chloroethyl) phosphate (TCEP)	106	102	P/P	70 - 180

Reference Method: EPA 8270E
Batch ID: P435653

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440340	PCB-1016	78.1	85.7	P/P	45 - 107
2440340	PCB-1260	78.4	88.8	P/P	40 - 112
2441048	Aldrin	63.9	65.3	P/P	24 - 81.0
2441048	Alpha-BHC	96.5	83.3	P/P	65 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P435653

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441048	Alpha-Chlordane	91.1	76.7	P/P	43 - 119
2441048	Beta-BHC	83.7	89.6	P/P	54 - 165
2441048	Beta-Cyfluthrin	94.0	105	P/P	27 - 165
2441048	Bifenthrin	71.4	60.2	P/P	17 - 117
2441048	Chlorothalonil	11.8	12.1	P/P	10 - 255
2441048	Cis-Nonachlor	72.0	79.4	P/P	34 - 98.0
2441048	Cypermethrin	94.0	101	P/P	25 - 143
2441048	Dacthal	97.2	84.7	P/P	55 - 139
2441048	DDD-p,p'	59.8	64.8	P/P	30 - 109
2441048	DDE-p,p'	68.4	57.5	P/P	35 - 106
2441048	DDT-p,p'	58.6	61.1	P/P	41 - 101
2441048	Delta-BHC	150	117	P/P	58 - 165
2441048	Deltamethrin	119	118	P/P	10 - 194
2441048	Dichlobenil	50.7	52.3	P/P	22 - 114
2441048	Dicofol	86.9	76.9	P/P	17 - 133
2441048	Dieldrin	85.4	72.7	P/P	45 - 129
2441048	Endosulfan I	99.7	86.7	P/P	49 - 104
2441048	Endosulfan II	90.0	88.7	P/P	37 - 117
2441048	Endosulfan Sulfate	83.9	77.4	P/P	38 - 128
2441048	Endrin	89.0	76.2	P/P	35 - 116
2441048	Endrin Aldehyde	54.9	55.9	P/P	19 - 108
2441048	Endrin Ketone	96.9	102	P/P	44 - 134
2441048	Esfenvalerate	106	99.0	P/P	27 - 176
2441048	Ethalfuralin	78.3	63.7	P/P	49 - 100
2441048	Fenpropathrin	82.5	75.7	P/P	34 - 117
2441048	Gamma-BHC	119	88.7	P/P	59 - 129
2441048	Gamma-Chlordane	90.6	71.9	P/P	33 - 107
2441048	Heptachlor	85.0	67.2	P/P	37 - 94.0
2441048	Heptachlor Epoxide	94.2	70.6	P/P	38 - 118
2441048	Hexachlorobenzene	73.0	66.5	P/P	35 - 97.0
2441048	Kepone	119	116	P/P	10 - 221
2441048	Lambda-Cyhalothrin	96.9	107	P/P	23 - 190
2441048	Methoprene	50.1	53.5	P/P	21 - 109
2441048	Methoxychlor	115	97.9	P/P	46 - 118
2441048	MGK-264	64.3	63.9	P/P	39 - 122
2441048	Mirex	73.5	71.6	P/P	25 - 90.0
2441048	Oxychlordane	81.6	66.7	P/P	42 - 100
2441048	Permethrin	80.1	99.1	P/P	33 - 181
2441048	Phenothrin	71.6	103	P/P	12 - 125
2441048	Piperonyl Butoxide	86.4	78.1	P/P	10 - 178
2441048	Prallethrin	80.3	82.0	P/P	24 - 122
2441048	Tau-Fluvalinate	103	100	P/P	13 - 151
2441048	Tetramethrin	84.7	93.5	P/P	16 - 172
2441048	Trans-Nonachlor	96.9	75.3	P/P	39 - 100
2441048	Triclosan Methyl	79.0	79.6	P/P	43 - 110
2441048	Trifluralin	74.0	70.2	P/P	45 - 94.0

Reference Method: EPA 8276

Batch ID: P435653

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440340	Chlordane	72.0	67.8	P/P	43 - 123

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8276

Batch ID: P435653

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440340	Toxaphene	82.9	76.9	P/P	27 - 156

Reference Method: EPA 8321B

Batch ID: P435381

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2438839	3-Hydroxycarbofuran	57.3	53.6	P/P	40 - 150
2438839	Aldicarb	35.7	33.6	P/P	30 - 150
2438839	Aldicarb Sulfone	55.7	54.4	P/P	40 - 150
2438839	Aldicarb Sulfoxide	27.5	26.1	F/F	40 - 150
2438839	Carbaryl	57.8	54.7	P/P	40 - 150
2438839	Carbofuran	50.6	46.7	P/P	40 - 150
2438839	Methiocarb	56.3	52.7	P/P	40 - 150
2438839	Methomyl	50.9	48.9	P/P	40 - 150
2438839	Oxamyl	52.0	50.6	P/P	40 - 150
2438839	Propoxur	47.3	45.7	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P435496

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440366	Acesulfame K	88.0	87.9	P/P	40 - 150
2440366	AMPA	64.6	64.3	P/P	40 - 150
2440366	Endothall	155	156	F/F	40 - 150
2440366	Glufosinate	119	108	P/P	40 - 150
2440366	Glyphosate	115	96.5	P/P	40 - 150
2440366	Sucralose	96.9	108	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P435567

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440342	2,4,5-T	93.3	86.5	P/P	40 - 150
2440342	Acetaminophen	116	111	P/P	30 - 150
2440342	Acetamiprid	65.1	66.9	P/P	40 - 150
2440342	Afidopyropen	51.3	57.3	P/P	30 - 150
2440342	Bentazon	37.7	37.6	P/P	30 - 150
2440342	Benzovindiflupyr	83.3	80.2	P/P	40 - 150
2440342	Carbamazepine	67.4	65.1	P/P	40 - 150
2440342	Clothianidin	83.2	79.4	P/P	40 - 150
2440342	Dinotefuran	95.6	87.5	P/P	40 - 150
2440342	Diuron	56.3	56.0	P/P	40 - 150
2440342	Fenuron	57.0	55.5	P/P	40 - 150
2440342	Fluridone	44.9	39.9	P/F	40 - 150
2440342	Hydrocodone	59.4	55.5	P/P	40 - 150
2440342	Ibuprofen	50.8	60.8	P/P	40 - 150
2440342	Imidacloprid	116	108	P/P	40 - 150
2440342	Linuron	50.8	46.9	P/P	40 - 150
2440342	Mandestrobin	69.7	66.7	P/P	40 - 150
2440342	MCPP	91.5	85.3	P/P	40 - 150
2440342	Naproxen	55.5	60.3	P/P	40 - 150
2440342	Primidone	75.1	68.6	P/P	40 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P435567

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440342	Pyraclostrobin	81.2	77.0	P/P	40 - 150
2440342	Silvex	83.1	72.3	P/P	40 - 150
2440342	Thiamethoxam	82.7	78.2	P/P	40 - 150
2440342	Tolfenpyrad	60.0	61.2	P/P	30 - 150
2440342	Triclopyr	99.1	93.7	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P435737

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441446	2,4-D	93.5	90.8	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P435769

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440474	Fluoride	97.5	95.9	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P435794

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437353	Organic Carbon	96.1	96.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P435526

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440246	Color (true)	1.70	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435529

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440112	Turbidity	10.2	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P435682

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440487	Calcium	0.768	Spike	P	0 - 20
2440487	Iron	1.39	Spike	P	0 - 20
2440487	Magnesium	1.24	Spike	P	0 - 20
2440487	Potassium	1.62	Spike	P	0 - 20
2440487	Sodium	1.56	Spike	P	0 - 20
2440487	Strontium	1.03	Spike	P	0 - 20
2440487	Tin	1.82	Spike	P	0 - 20
2440487	Titanium	2.02	Spike	P	0 - 20
2440487	Vanadium	1.97	Spike	P	0 - 20
2440487	Zinc	1.47	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P435682

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440487	Aluminum	1.14	Spike	P	0 - 20
2440487	Antimony	0.837	Spike	P	0 - 20
2440487	Arsenic	0.593	Spike	P	0 - 20
2440487	Barium	0.694	Spike	P	0 - 20
2440487	Beryllium	1.41	Spike	P	0 - 20
2440487	Boron	0.927	Spike	P	0 - 20
2440487	Cadmium	1.27	Spike	P	0 - 20
2440487	Chromium	0.169	Spike	P	0 - 20
2440487	Cobalt	0.341	Spike	P	0 - 20
2440487	Copper	0.540	Spike	P	0 - 20
2440487	Lead	0.281	Spike	P	0 - 20
2440487	Manganese	0.273	Spike	P	0 - 20
2440487	Molybdenum	0.601	Spike	P	0 - 20
2440487	Nickel	0.429	Spike	P	0 - 20
2440487	Selenium	0.606	Spike	P	0 - 20
2440487	Silver	0.0570	Spike	P	0 - 20
2440487	Thallium	0.278	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436045

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440292	Chloride	2.47	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436048

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440292	Sulfate	4.26	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435749

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440351	Ammonia-N	2.02	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436040

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440293	Kjeldahl Nitrogen	2.32	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436258

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440333	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435692

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440436	Total-P	3.61	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P435493

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440545	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	13.3	Spike	P	0 - 30
2440545	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	21.7	Spike	P	0 - 37
2440545	Acetochlor	17.6	Spike	P	0 - 28
2440545	Alachlor	2.27	Spike	P	0 - 30
2440545	Ametryn	12.5	Spike	P	0 - 32
2440545	Atrazine	6.84	Spike	P	0 - 41
2440545	Atrazine Desethyl	15.5	Spike	P	0 - 36
2440545	Avobenzene	14.4	Spike	P	0 - 36
2440545	Azinphos Methyl	16.5	Spike	P	0 - 75

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P435493

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440545	Azoxystrobin	14.7	Spike	P	0 - 39
2440545	Bromacil	14.9	Spike	P	0 - 33
2440545	Butylate	30.7	Spike	P	0 - 44
2440545	Caffeine	18.6	Spike	P	0 - 74
2440545	Carbophenothion	16.2	Spike	P	0 - 25
2440545	Carfentrazone Ethyl	16.0	Spike	P	0 - 27
2440545	Chlorfenapyr	13.6	Spike	P	0 - 24
2440545	Chlorpyrifos Ethyl	16.4	Spike	P	0 - 26
2440545	Chlorpyrifos Methyl	14.7	Spike	P	0 - 26
2440545	Coumaphos	8.07	Spike	P	0 - 28
2440545	Cyanazine	36.5	Spike	P	0 - 48
2440545	Cyprodinil	21.4	Spike	P	0 - 29
2440545	Dechlorane 602	7.57	Spike	P	0 - 30
2440545	Dechlorane 603	6.96	Spike	P	0 - 30
2440545	Dechlorane Plus	8.97	Spike	P	0 - 30
2440545	Demeton	14.7	Spike	P	0 - 33
2440545	Diazinon	1.39	Spike	P	0 - 29
2440545	Difenoconazole	15.0	Spike	P	0 - 34
2440545	Dimethenamid	14.2	Spike	P	0 - 39
2440545	Dimethomorph	5.97	Spike	P	0 - 51
2440545	Disulfoton	0.528	Spike	P	0 - 30
2440545	Dithiopyr	13.7	Spike	P	0 - 26
2440545	EPTC	47.0	Spike	F	0 - 43
2440545	Ethion	4.13	Spike	P	0 - 79
2440545	Ethoprop	15.3	Spike	P	0 - 29
2440545	Etridiazole	23.3	Spike	P	0 - 33
2440545	Fenamiphos	8.92	Spike	P	0 - 40
2440545	Fenbuconazole	14.7	Spike	P	0 - 74
2440545	Fipronil	18.6	Spike	P	0 - 29
2440545	Fipronil Desulfanyl	12.0	Spike	P	0 - 32
2440545	Fipronil Sulfide	14.3	Spike	P	0 - 30
2440545	Fipronil Sulfone	9.19	Spike	P	0 - 33
2440545	Fluazifop-P-butyl	0.649	Spike	P	0 - 38
2440545	Fludioxonil	14.5	Spike	P	0 - 29
2440545	Flumioxazin	19.7	Spike	P	0 - 51
2440545	Flutolanil	5.26	Spike	P	0 - 25
2440545	Fluxapyroxad	16.4	Spike	P	0 - 45
2440545	Fonofos	4.88	Spike	P	0 - 27
2440545	Hexabromobenzene	0.301	Spike	P	0 - 30
2440545	Hexazinone	24.0	Spike	P	0 - 30
2440545	Imazalil	15.2	Spike	P	0 - 100
2440545	Iprodione	19.8	Spike	P	0 - 33
2440545	Loratadine	8.44	Spike	P	0 - 56
2440545	Malathion	27.1	Spike	P	0 - 37
2440545	Metalaxyl	16.7	Spike	P	0 - 40
2440545	Metolachlor	21.1	Spike	P	0 - 29
2440545	Metribuzin	9.46	Spike	P	0 - 45
2440545	Mevinphos	10.3	Spike	P	0 - 29
2440545	Molinate	11.2	Spike	P	0 - 33
2440545	Myclobutanil	18.7	Spike	P	0 - 26
2440545	Naled	0.251	Spike	P	0 - 37

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P435493

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440545	Napropamide	14.6	Spike	P	0 - 44
2440545	Norflurazon	1.84	Spike	P	0 - 30
2440545	Octinoxate	2.34	Spike	P	0 - 45
2440545	Oxadiazon	18.8	Spike	P	0 - 28
2440545	Oxybenzone	2.69	Spike	P	0 - 46
2440545	Oxyfluorfen	27.2	Spike	P	0 - 28
2440545	Parathion Ethyl	18.3	Spike	P	0 - 31
2440545	Parathion Methyl	9.54	Spike	P	0 - 29
2440545	PBB-153	5.91	Spike	P	0 - 30
2440545	PBDE-47	0.774	Spike	P	0 - 36
2440545	PBDE-99	9.23	Spike	P	0 - 40
2440545	Pendimethalin	13.6	Spike	P	0 - 33
2440545	Pentabromotoluene	2.50	Spike	P	0 - 30
2440545	Phenytoin	20.0	Spike	P	0 - 100
2440545	Phorate	0.602	Spike	P	0 - 36
2440545	Prodiamine	34.2	Spike	P	0 - 71
2440545	Prometon	12.7	Spike	P	0 - 36
2440545	Prometryn	8.18	Spike	P	0 - 28
2440545	Pronamide	21.2	Spike	P	0 - 24
2440545	Propanil	21.1	Spike	P	0 - 28
2440545	Propargite	19.4	Spike	P	0 - 43
2440545	Propiconazole	9.03	Spike	P	0 - 33
2440545	Pyraflufen Ethyl	10.5	Spike	P	0 - 29
2440545	Pyridaben	1.15	Spike	P	0 - 30
2440545	Pyriproxyfen	19.8	Spike	P	0 - 79
2440545	Simazine	24.6	Spike	P	0 - 29
2440545	Stirophos	5.50	Spike	P	0 - 61
2440545	Sulfentrazone	22.6	Spike	P	0 - 33
2440545	Tebuconazole	10.6	Spike	P	0 - 69
2440545	Terbufos	7.49	Spike	P	0 - 29
2440545	Terbutylazine	8.21	Spike	P	0 - 32
2440545	Tetradecachloro-m-terphenyl	0.349	Spike	P	0 - 30
2440545	Thiobencarb	17.6	Spike	P	0 - 26
2440545	Tri-o-cresyl Phosphate	0.742	Spike	P	0 - 33
2440545	Triadimefon	26.0	Spike	P	0 - 28
2440545	Tris(1-chloro-2-propyl) phosphate (TCPP)	1.19	Spike	P	0 - 30
2440545	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	4.55	Spike	P	0 - 30
2440545	Tris(2-chloroethyl) phosphate (TCEP)	4.23	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P435653

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440340	PCB-1016	9.27	Spike	P	0 - 25
2440340	PCB-1260	12.5	Spike	P	0 - 30
2441048	Aldrin	2.25	Spike	P	0 - 41
2441048	Alpha-BHC	14.6	Spike	P	0 - 25
2441048	Alpha-Chlordane	17.2	Spike	P	0 - 32
2441048	Beta-BHC	6.78	Spike	P	0 - 33
2441048	Beta-Cyfluthrin	11.5	Spike	P	0 - 43

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P435653

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441048	Bifenthrin	17.0	Spike	P	0 - 52
2441048	Chlorothalonil	2.54	Spike	P	0 - 82
2441048	Cis-Nonachlor	9.80	Spike	P	0 - 33
2441048	Cypermethrin	7.34	Spike	P	0 - 51
2441048	Dacthal	13.7	Spike	P	0 - 27
2441048	DDD-p,p'	7.97	Spike	P	0 - 39
2441048	DDE-p,p'	17.3	Spike	P	0 - 31
2441048	DDT-p,p'	4.24	Spike	P	0 - 29
2441048	Delta-BHC	25.0	Spike	P	0 - 35
2441048	Deltamethrin	0.276	Spike	P	0 - 100
2441048	Dichlobenil	3.01	Spike	P	0 - 40
2441048	Dicofol	12.3	Spike	P	0 - 37
2441048	Dieldrin	16.1	Spike	P	0 - 27
2441048	Endosulfan I	14.0	Spike	P	0 - 23
2441048	Endosulfan II	1.45	Spike	P	0 - 34
2441048	Endosulfan Sulfate	7.99	Spike	P	0 - 36
2441048	Endrin	15.5	Spike	P	0 - 45
2441048	Endrin Aldehyde	1.87	Spike	P	0 - 76
2441048	Endrin Ketone	5.33	Spike	P	0 - 43
2441048	Esfenvalerate	7.02	Spike	P	0 - 51
2441048	Ethalfuralin	20.6	Spike	P	0 - 22
2441048	Fenpropathrin	8.62	Spike	P	0 - 49
2441048	Gamma-BHC	29.3	Spike	F	0 - 28
2441048	Gamma-Chlordane	23.0	Spike	P	0 - 40
2441048	Heptachlor	23.4	Spike	P	0 - 29
2441048	Heptachlor Epoxide	28.6	Spike	P	0 - 33
2441048	Hexachlorobenzene	9.29	Spike	P	0 - 36
2441048	Kepone	3.04	Spike	P	0 - 85
2441048	Lambda-Cyhalothrin	9.76	Spike	P	0 - 55
2441048	Methoprene	6.67	Spike	P	0 - 53
2441048	Methoxychlor	15.8	Spike	P	0 - 50
2441048	MGK-264	0.739	Spike	P	0 - 43
2441048	Mirex	2.68	Spike	P	0 - 40
2441048	Oxychlordane	20.1	Spike	P	0 - 31
2441048	Permethrin	21.2	Spike	P	0 - 50
2441048	Phenothrin	36.3	Spike	P	0 - 58
2441048	Piperonyl Butoxide	10.1	Spike	P	0 - 100
2441048	Prallethrin	2.10	Spike	P	0 - 39
2441048	Tau-Fluvalinate	2.18	Spike	P	0 - 54
2441048	Tetramethrin	9.88	Spike	P	0 - 51
2441048	Trans-Nonachlor	25.1	Spike	P	0 - 39
2441048	Triclosan Methyl	0.814	Spike	P	0 - 31
2441048	Trifluralin	5.26	Spike	P	0 - 22

Reference Method: EPA 8276
Batch ID: P435653

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440340	Chlordane	5.59	Spike	P	0 - 28
2440340	Toxaphene	7.50	Spike	P	0 - 27

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P435381

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438839	3-Hydroxycarbofuran	6.67	Spike	P	0 - 30
2438839	Aldicarb	6.27	Spike	P	0 - 30
2438839	Aldicarb Sulfone	2.40	Spike	P	0 - 30
2438839	Aldicarb Sulfoxide	5.21	Spike	P	0 - 30
2438839	Carbaryl	5.60	Spike	P	0 - 30
2438839	Carbofuran	7.84	Spike	P	0 - 30
2438839	Methiocarb	6.64	Spike	P	0 - 30
2438839	Methomyl	4.00	Spike	P	0 - 30
2438839	Oxamyl	2.59	Spike	P	0 - 30
2438839	Propoxur	3.36	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P435496

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440366	Acesulfame K	0.157	Spike	P	0 - 30
2440366	AMPA	0.354	Spike	P	0 - 30
2440366	Endothall	0.668	Spike	P	0 - 30
2440366	Glufosinate	9.58	Spike	P	0 - 30
2440366	Glyphosate	17.4	Spike	P	0 - 30
2440366	Sucralose	10.5	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P435567

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440342	2,4,5-T	7.48	Spike	P	0 - 30
2440342	Acetaminophen	5.12	Spike	P	0 - 30
2440342	Acetamiprid	2.84	Spike	P	0 - 30
2440342	Afidopyropen	11.1	Spike	P	0 - 30
2440342	Bentazon	0.151	Spike	P	0 - 30
2440342	Benzovindiflupyr	3.79	Spike	P	0 - 30
2440342	Carbamazepine	3.44	Spike	P	0 - 30
2440342	Clothianidin	4.66	Spike	P	0 - 30
2440342	Dinotefuran	8.80	Spike	P	0 - 30
2440342	Diuron	0.585	Spike	P	0 - 30
2440342	Fenuron	2.57	Spike	P	0 - 30
2440342	Fluridone	11.8	Spike	P	0 - 30
2440342	Hydrocodone	6.74	Spike	P	0 - 30
2440342	Ibuprofen	17.9	Spike	P	0 - 30
2440342	Imazapyr	0.792	Spike	P	0 - 30
2440342	Imidacloprid	6.34	Spike	P	0 - 30
2440342	Linuron	8.07	Spike	P	0 - 30
2440342	Mandestrobin	4.45	Spike	P	0 - 30
2440342	MCPP	7.06	Spike	P	0 - 30
2440342	Naproxen	8.29	Spike	P	0 - 30
2440342	Primidone	8.95	Spike	P	0 - 30
2440342	Pyraclostrobin	5.32	Spike	P	0 - 30
2440342	Silvex	13.8	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P435567

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440342	Thiamethoxam	5.57	Spike	P	0 - 30
2440342	Tolfenpyrad	2.01	Spike	P	0 - 30
2440342	Triclopyr	5.61	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P435737

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441446	2,4-D	2.97	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P435767

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440474	Total Alkalinity	2.67	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P436127

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440330	TDS	7.16	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P435769

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440474	Fluoride	1.01	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P435794

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437353	Organic Carbon	0.483	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2440365
Field Sample ID: G4SE0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	43.9	P	30 - 160

Lab Sample ID: 2440366
Field Sample ID: G4SE0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	77.3	P	30 - 160
EPA 8321B	2,4-D-d3	87.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	58.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	62.9	P	30 - 160
EPA 8321B	Diuron-d6	38.8	P	30 - 160
EPA 8321B	Endothall-d6	141	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	135	P	30 - 160
EPA 8321B	Ibuprofen-d3	53.2	P	30 - 160
EPA 8321B	Primidone-d5	46.0	P	30 - 160
EPA 8321B	Sucralose-d6	109	P	30 - 160

Lab Sample ID: 2440367
Field Sample ID: G4SE0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	83.8	P	37 - 129
EPA 8270E	Decachlorobiphenyl	95.0	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	67.8	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	57.8	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	51.5	P	28 - 102
EPA 8276	PCNB	98.6	P	49 - 115

Lab Sample ID: 2440368
Field Sample ID: G4SE0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	61.8	P	20 - 200
EPA 8270E	Simazine-d10	85.2	P	62 - 142
EPA 8270E	Terbufos-d10	99.1	P	58 - 132
EPA 8270E	Terphenyl-d14	71.1	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A121765
Included Lab Sample IDs: 2440366

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	95.4	82.3	P/P	60 - 160
Endothall	108	112	P/P	60 - 160
Glufosinate	114	113	P/P	60 - 160
Glyphosate	75.0	86.7	P/P	60 - 160

Reference Method: DEP SOP: NU-094-1
Run ID: A121773
Included Lab Sample IDs: 2440357, 2440359

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	100	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A121774
Included Lab Sample IDs: 2440357, 2440359

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

Reference Method: EPA 8321B
Run ID: A121824
Included Lab Sample IDs: 2440366

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	102	97.6	P/P	60 - 160
Sucralose	108	107	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A121845
Included Lab Sample IDs: 2440358

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	99.4	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A121846
Included Lab Sample IDs: 2440365

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	110	112	P/P	60 - 150
Aldicarb	103	114	P/P	60 - 150
Aldicarb Sulfone	116	119	P/P	50 - 150
Aldicarb Sulfoxide	112	113	P/P	50 - 150
Carbaryl	109	112	P/P	60 - 150
Carbofuran	116	116	P/P	50 - 150
Methiocarb	107	111	P/P	50 - 150
Methomyl	110	108	P/P	50 - 150
Oxamyl	117	114	P/P	50 - 150
Propoxur	120	124	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A121852

Included Lab Sample IDs: 2440358, 2440360

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

Reference Method: SM 2320 B-2011

Run ID: A121863

Included Lab Sample IDs: 2440357, 2440359

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.9	94.0	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A121863

Included Lab Sample IDs: 2440357, 2440359

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A121868

Included Lab Sample IDs: 2440369

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	102	104	P/P	95 - 105
Iron	102	103	P/P	95 - 105
Magnesium	101	103	P/P	95 - 105
Potassium	99.1	99.8	P/P	95 - 105
Sodium	100	101	P/P	95 - 105
Strontium	97.9	95.9	P/P	95 - 105
Tin	98.5	98.3	P/P	95 - 105
Titanium	99.4	97.2	P/P	95 - 105
Vanadium	98.6	96.3	P/P	95 - 105
Zinc	98.6	97.7	P/P	95 - 105

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A121869

Included Lab Sample IDs: 2440369

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	97.9	93.6	P/P	90 - 110
Antimony	94.6	92.3	P/P	90 - 110
Arsenic	98.4	95.3	P/P	90 - 110
Barium	98.4	94.9	P/P	90 - 110
Beryllium	97.7	93.5	P/P	90 - 110
Boron	100	95.0	P/P	90 - 110
Cadmium	100	97.1	P/P	90 - 110
Chromium	98.6	95.9	P/P	90 - 110
Cobalt	97.8	94.4	P/P	90 - 110
Copper	96.0	92.3	P/P	90 - 110
Manganese	97.9	95.5	P/P	90 - 110
Molybdenum	97.6	94.8	P/P	90 - 110
Nickel	96.9	93.2	P/P	90 - 110
Selenium	98.0	95.6	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A121869

Included Lab Sample IDs: 2440369

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Silver	99.4	95.9	P/P	90 - 110
Thallium	98.9	95.2	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A121870

Included Lab Sample IDs: 2440368

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	98.9		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	93.1		P	80 - 120
Avobenzone	95.5		P	80 - 120
Dechlorane 602	99.1		P	80 - 120
Dechlorane 603	101		P	80 - 120
Dechlorane Plus	101		P	80 - 120
Hexabromobenzene	91.8		P	80 - 120
Octinoxate	92.1		P	80 - 120
Oxybenzone	97.4		P	80 - 120
PBB-153	93.4		P	80 - 120
PBDE-47	94.1		P	80 - 120
PBDE-99	95.8		P	80 - 120
Pentabromotoluene	102		P	80 - 120
Tetradecachloro-m-terphenyl	95.2		P	80 - 120
Tri-o-cresyl Phosphate	96.8		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	92.7		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	97.9		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	94.9		P	80 - 120

Reference Method: SM 5310 B-2011

Run ID: A121872

Included Lab Sample IDs: 2440358, 2440360

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.4	94.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A121876

Included Lab Sample IDs: 2440360

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A121884

Included Lab Sample IDs: 2440369

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Lead	95.5	94.9	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A121893
Included Lab Sample IDs: 2440366

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4,5-T	107	84.7	P/P	50 - 150
Acetaminophen	111	115	P/P	60 - 160
Acetamiprid	110	111	P/P	50 - 150
Bentazon	124	121	P/P	50 - 160
Benzovindiflupyr	95.9	87.9	P/P	50 - 150
Carbamazepine	106	88.0	P/P	60 - 150
Clothianidin	120	122	P/P	60 - 150
Dinotefuran	108	114	P/P	50 - 150
Diuron	109	83.4	P/P	60 - 160
Fenuron	104	105	P/P	60 - 150
Fluridone	103	82.7	P/P	60 - 160
Hydrocodone	118	113	P/P	60 - 150
Ibuprofen	140	73.2	P/P	50 - 160
Imazapyr	99.3	104	P/P	50 - 150
Imidacloprid	106	104	P/P	60 - 150
Linuron	86.5	74.8	P/P	60 - 150
Mandestrobin	92.9	85.0	P/P	50 - 150
MCPP	107	84.3	P/P	50 - 150
Naproxen	142	141	P/P	50 - 160
Primidone	107	107	P/P	60 - 150
Pyraclostrobin	105	102	P/P	60 - 150
Silvex	114	73.3	P/P	50 - 150
Thiamethoxam	118	119	P/P	50 - 150
Tolfenpyrad	99.2	90.6	P/P	60 - 150
Triclopyr	90.1	81.9	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A121906
Included Lab Sample IDs: 2440368

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	94.3		P	80 - 120
Alachlor	96.7		P	80 - 120
Ametryn	99.2		P	80 - 120
Atrazine	96.1		P	80 - 120
Atrazine Desethyl	114		P	80 - 120
Azinphos Methyl	106		P	80 - 120
Azoxystrobin	97.8		P	80 - 120
Bromacil	93.3		P	80 - 120
Butylate	98.7		P	80 - 120
Caffeine	105		P	80 - 120
Carbophenothion	104		P	80 - 120
Carfentrazone Ethyl	97.5		P	80 - 120
Chlorfenapyr	85.4		P	80 - 120
Chlorpyrifos Ethyl	89.1		P	80 - 120
Chlorpyrifos Methyl	99.5		P	80 - 120
Coumaphos	93.4		P	80 - 120
Cyanazine	99.1		P	80 - 120
Cyprodinil	104		P	80 - 120
Demeton	102		P	80 - 120
Diazinon	104		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121906
Included Lab Sample IDs: 2440368

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Difenoconazole	92.0		P	80 - 120
Dimethenamid	101		P	80 - 120
Dimethomorph	97.2		P	80 - 120
Disulfoton	104		P	80 - 120
Dithiopyr	103		P	80 - 120
EPTC	99.1		P	80 - 120
Ethion	89.5		P	80 - 120
Ethoprop	104		P	80 - 120
Etridiazole	102		P	80 - 120
Fenamiphos	97.7		P	80 - 120
Fenbuconazole	87.2		P	80 - 120
Fipronil	96.7		P	80 - 120
Fipronil Desulfinyl	100		P	80 - 120
Fipronil Sulfide	103		P	80 - 120
Fipronil Sulfone	102		P	80 - 120
Fluazifop-P-butyl	101		P	80 - 120
Fludioxonil	87.7		P	80 - 120
Flumioxazin	94.6		P	80 - 120
Flutolanil	101		P	80 - 120
Fluxapyroxad	97.8		P	80 - 120
Fonofos	96.3		P	80 - 120
Hexazinone	100		P	80 - 120
Imazalil	111		P	80 - 120
Iprodione	78.7*		F	80 - 120
Loratadine	86.1		P	80 - 120
Malathion	80.2		P	80 - 120
Metalaxyl	88.5		P	80 - 120
Metribuzin	97.6		P	80 - 120
Mevinphos	92.4		P	80 - 120
Molinate	89.0		P	80 - 120
Myclobutanil	92.5		P	80 - 120
Naled	105		P	80 - 120
Napropamide	98.9		P	80 - 120
Norflurazon	102		P	80 - 120
Oxadiazon	103		P	80 - 120
Oxyfluorfen	99.5		P	80 - 120
Parathion Ethyl	103		P	80 - 120
Parathion Methyl	92.0		P	80 - 120
Pendimethalin	108		P	80 - 120
Phenytol	95.6		P	80 - 120
Phorate	99.7		P	80 - 120
Prodiamine	101		P	80 - 120
Prometon	105		P	80 - 120
Prometryn	104		P	80 - 120
Pronamide	101		P	80 - 120
Propanil	87.1		P	80 - 120
Propargite	107		P	80 - 120
Propiconazole	85.9		P	80 - 120
Pyraflufen Ethyl	105		P	80 - 120
Pyridaben	102		P	80 - 120
Pyriproxyfen	174*		F	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121906
Included Lab Sample IDs: 2440368

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Stirophos	84.0		P	80 - 120
Sulfentrazone	87.3		P	80 - 120
Tebuconazole	97.9		P	80 - 120
Terbufos	94.9		P	80 - 120
Terbuthylazine	95.4		P	80 - 120
Thiobencarb	104		P	80 - 120
Triadimefon	100		P	80 - 120

Reference Method: EPA 8321B
Run ID: A121918
Included Lab Sample IDs: 2440366

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Afidopyropen	77.3	76.5	P/P	50 - 150

Reference Method: EPA 8321B
Run ID: A121944
Included Lab Sample IDs: 2440366

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	109	89.4	P/P	50 - 150

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A121948
Included Lab Sample IDs: 2440357, 2440359

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	102	P/P	90 - 110
Chloride	102	103	P/P	90 - 110
Sulfate	103	103	P/P	90 - 110
Sulfate	103	104	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A121970
Included Lab Sample IDs: 2440367

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	93.4		P	80 - 120
PCB-1260	93.6		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A122030
Included Lab Sample IDs: 2440358, 2440360

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A122040
 Included Lab Sample IDs: 2440367

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	96.0		P	80 - 120
Alpha-Chlordane	81.1		P	80 - 120
Beta-BHC	83.8		P	80 - 120
Beta-Cyfluthrin	93.4		P	80 - 120
Bifenthrin	108		P	80 - 120
Chlorothalonil	94.0		P	80 - 120
Cis-Nonachlor	91.2		P	80 - 120
Cypermethrin	87.6		P	80 - 120
Dacthal	98.2		P	80 - 120
DDD-p,p'	109		P	80 - 120
DDE-p,p'	107		P	80 - 120
DDT-p,p'	94.3		P	80 - 120
Delta-BHC	92.9		P	80 - 120
Deltamethrin	91.1		P	80 - 120
Dichlobenil	91.6		P	80 - 120
Dieldrin	113		P	80 - 120
Endosulfan I	81.7		P	80 - 120
Endosulfan II	99.2		P	80 - 120
Endosulfan Sulfate	104		P	80 - 120
Endrin	110		P	80 - 120
Endrin Aldehyde	104		P	80 - 120
Endrin Ketone	99.5		P	80 - 120
Esfenvalerate	89.7		P	80 - 120
Ethalfuralin	96.7		P	80 - 120
Fenpropathrin	102		P	80 - 120
Gamma-BHC	84.0		P	80 - 120
Gamma-Chlordane	82.2		P	80 - 120
Heptachlor	110		P	80 - 120
Heptachlor Epoxide	85.8		P	80 - 120
Hexachlorobenzene	87.2		P	80 - 120
Kepone	92.9		P	80 - 120
Lambda-Cyhalothrin	93.7		P	80 - 120
Methoprene	96.2		P	80 - 120
MGK-264	96.1		P	80 - 120
Mirex	104		P	80 - 120
Oxychlordane	84.8		P	80 - 120
Permethrin	101		P	80 - 120
Phenothrin	90.2		P	80 - 120
Piperonyl Butoxide	92.5		P	80 - 120
Prallethrin	92.9		P	80 - 120
Tau-Fluvalinate	92.6		P	80 - 120
Tetramethrin	97.6		P	80 - 120
Trans-Nonachlor	87.9		P	80 - 120
Triclosan Methyl	107		P	80 - 120
Trifluralin	103		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122041
Included Lab Sample IDs: 2440367

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dicofol	93.7		P	80 - 120
Methoxychlor	96.9		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A122043
Included Lab Sample IDs: 2440358, 2440360

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	96.5	97.0	P/P	90 - 110

Reference Method: EPA 8276
Run ID: A122071
Included Lab Sample IDs: 2440367

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.3		P	80 - 120
Toxaphene	95.8		P	80 - 120

Reference Method: EPA 8270E
Run ID: A122072
Included Lab Sample IDs: 2440368

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Metolachlor	101		P	80 - 120
Simazine	83.3		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision SMP	MS
			LCS				
DEP SOP: NU-094-1	Color (true)	99.9				1.70	
EPA 180.1 Rev. 2.0	Turbidity	104				10.2	
EPA 200.7 Rev. 4.4	Calcium	102	98.8	102			0.768
	Iron	103	102	101	99.7		1.39
	Magnesium	105	104	102	104		1.24
	Potassium	101	96.4	98.4	97.4		1.62
	Sodium	100	99.9	99.5			1.56
	Strontium	99.6	98.1	99.1	99.2		1.03
	Tin	106	101	103	102		1.82
	Titanium	102	92.9	95.4	101		2.02
	Vanadium	102	98.6	101	103		1.97
	Zinc	104	101	102	102		1.47
EPA 200.8 Rev. 5.4	Aluminum	97.9	101	98.7	87.6		1.14
	Antimony	94.0	98.9	98.1	93.3		0.837
	Arsenic	98.7	99.1	99.7	95.2		0.593
	Barium	98.3	103	102	97.3		0.694
	Beryllium	95.3	94.7	96.1	88.9		1.41
	Boron	102	105	104	97.6		0.927
	Cadmium	96.3	103	101	97.5		1.27
	Chromium	94.2	95.1	94.9	93.5		0.169
	Cobalt	98.4	96.9	96.6	93.8		0.341
	Copper	96.4	93.9	94.5	96.7		0.540
	Lead	90.8	95.5	93.2	93.0		0.281
	Manganese	94.1	95.5	95.7	92.7		0.273
	Molybdenum	96.2	101	100	94.7		0.601
	Nickel	97.9	94.2	93.7	94.0		0.429
	Selenium	95.6	97.1	97.7	93.1		0.606
	Silver	107	109	109	104		0.0570
	Thallium	99.0	104	104	99.2		0.278
EPA 300.0 Rev. 2.1	Chloride	102	104	105		2.47	
	Sulfate	102	104	106		4.26	
EPA 350.1 Rev. 2.0	Ammonia-N	102	100	103			2.02
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	108	105	102			2.32
EPA 353.2 Rev. 2.0	NO2NO3-N	96.0	95.5	95.5			0.0
EPA 365.1 Rev. 2.0	Total-P	103	104	109			3.61
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntylphenol (UV-328)	63.8	93.3	81.7			13.3
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	98.6	28.5	22.9			21.7
	Acetochlor	89.0	103	85.9			17.6
	Alachlor	73.8	88.1	90.2			2.27
	Aldrin	52.2	63.9	65.3			2.25
	Alpha-BHC	77.4	96.5	83.3			14.6
	Alpha-Chlordane	88.3	91.1	76.7			17.2
	Ametryn	124	130	115			12.5
	Atrazine	86.0					6.84
	Atrazine Desethyl	81.7	85.7	70.4			15.5
	Avobenzone	101	83.2	96.1			14.4
	Azinphos Methyl	95.0	78.6	92.7			16.5
	Azoxystrobin	94.1	110	94.7			14.7
	Beta-BHC	73.8	83.7	89.6			6.78
	Beta-Cyfluthrin	77.8	94.0	105			11.5
	Bifenthrin	54.3	71.4	60.2			17.0

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Bromacil	92.9	115	98.8			14.9
	Butylate	59.5	58.6	43.0			30.7
	Caffeine	96.9	112	92.6			18.6
	Carbophenothion	93.6	109	92.5			16.2
	Carfentrazone Ethyl	103	117	99.4			16.0
	Chlorfenapyr	55.8	62.6	54.7			13.6
	Chlorothalonil	107	11.8	12.1			2.54
	Chlorpyrifos Ethyl	99.4	97.7	82.9			16.4
	Chlorpyrifos Methyl	91.4	91.5	78.9			14.7
	Cis-Nonachlor	70.4	72.0	79.4			9.80
	Coumaphos	83.6	61.4	56.6			8.07
	Cyanazine	145	182	126			36.5
	Cypermethrin	69.5	94.0	101			7.34
	Cyprodinil	87.6	81.1	63.7			21.4
	Dacthal	99.0	97.2	84.7			13.7
	DDD-p,p'	61.9	59.8	64.8			7.97
	DDE-p,p'	68.2	68.4	57.5			17.3
	DDT-p,p'	56.4	58.6	61.1			4.24
	Dechlorane 602	68.4	37.8	40.7			7.57
	Dechlorane 603	110	70.5	75.5			6.96
	Dechlorane Plus	109	67.6	73.9			8.97
	Delta-BHC	103	150	117			25.0
	Deltamethrin	76.9	119	118			0.276
	Demeton	69.5	78.1	67.5			14.7
	Diazinon	108	108	107			1.39
	Dichlobenil	74.7	50.7	52.3			3.01
	Dicofol	67.4	86.9	76.9			12.3
	Dieldrin	74.6	85.4	72.7			16.1
	Difenoconazole	63.0	118	137			15.0
	Dimethenamid	76.2	80.6	69.9			14.2
	Dimethomorph	183	227	241			5.97
	Disulfoton	96.2	101	101			0.528
	Dithiopyr	107	102	88.5			13.7
	Endosulfan I	76.2	99.7	86.7			14.0
	Endosulfan II	93.6	90.0	88.7			1.45
	Endosulfan Sulfate	83.1	83.9	77.4			7.99
	Endrin	77.6	89.0	76.2			15.5
	Endrin Aldehyde	62.1	54.9	55.9			1.87
	Endrin Ketone	94.7	96.9	102			5.33
	EPTC	63.0	51.7	32.0			47.0
	Esfenvalerate	64.6	106	99.0			7.02
	Ethalfuralin	73.9	78.3	63.7			20.6
	Ethion	39.1	44.3	42.5			4.13
	Ethoprop	83.8	103	88.7			15.3
	Etridiazole	64.1	66.3	52.5			23.3
	Fenamiphos	74.1	63.5	58.1			8.92
	Fenbuconazole	58.2	58.8	68.2			14.7
	Fenpropathrin	71.8	82.5	75.7			8.62
	Fipronil	92.9	82.1	68.2			18.6
	Fipronil Desulfinyl	96.2	99.7	88.5			12.0
	Fipronil Sulfide	79.0	105	90.9			14.3
	Fipronil Sulfone	67.1	60.2	66.0			9.19
	Fluazifop-P-butyl	68.3	63.5	63.1			0.649
	Fludioxonil	62.9	73.8	63.8			14.5

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Flumioxazin	96.8	136	166		19.7
	Flutolanil	66.0	71.4	67.7		5.26
	Fluxapyroxad	73.2	88.1	74.8		16.4
	Fonofos	89.8	90.8	86.5		4.88
	Gamma-BHC	79.0	119	88.7		29.3
	Gamma-Chlordane	73.4	90.6	71.9		23.0
	Heptachlor	56.5	85.0	67.2		23.4
	Heptachlor Epoxide	74.6	94.2	70.6		28.6
	Hexabromobenzene	99.8	83.1	82.9		0.301
	Hexachlorobenzene	78.3	73.0	66.5		9.29
	Hexazinone	81.8	101	79.1		24.0
	Imazalil	89.0	121	104		15.2
	Iprodione	54.0	75.2	61.7		19.8
	Kepone	140	119	116		3.04
	Lambda-Cyhalothrin	56.8	96.9	107		9.76
	Loratadine	124	167	181		8.44
	Malathion	104	120	91.0		27.1
	Metalaxyl	88.0	96.4	81.5		16.7
	Methoprene	48.4	50.1	53.5		6.67
	Methoxychlor	74.2	115	97.9		15.8
	Metolachlor	99.1	105	82.3		21.1
	Metribuzin	41.7	68.8	62.6		9.46
	Mevinphos	72.7	82.2	74.2		10.3
	MGK-264	60.6	64.3	63.9		0.739
	Mirex	64.9	73.5	71.6		2.68
	Molinate	58.8	55.8	49.9		11.2
	Myclobutanil	67.1	78.7	65.3		18.7
	Naled	43.0	33.8	33.9		0.251
	Napropamide	81.2	90.8	78.5		14.6
	Norflurazon	76.5	75.9	74.5		1.84
	Octinoxate	102	91.1	89.0		2.34
	Oxadiazon	72.4	89.8	74.4		18.8
	Oxybenzone	107	97.8	100		2.69
	Oxychlordane	70.1	81.6	66.7		20.1
	Oxyfluorfen	77.5	90.7	69.0		27.2
	Parathion Ethyl	89.6	105	87.3		18.3
	Parathion Methyl	99.1	108	97.9		9.54
	PBB-153	106	33.2	35.2		5.91
	PBDE-47	89.0	78.0	78.6		0.774
	PBDE-99	76.5	22.9	25.1		9.23
	PCB-1016	77.3	78.1	85.7		9.27
	PCB-1260	89.1	78.4	88.8		12.5
	Pendimethalin	74.2	85.9	75.0		13.6
	Pentabromotoluene	96.5	86.2	84.1		2.50
	Permethrin	73.3	80.1	99.1		21.2
	Phenothrin	55.1	71.6	103		36.3
	Phenytol	28.0	54.4	44.5		20.0
	Phorate	97.4	116	116		0.602
	Piperonyl Butoxide	81.5	86.4	78.1		10.1
	Prallethrin	71.7	80.3	82.0		2.10
	Prodiamine	48.9	49.5	35.1		34.2
	Prometon	106	110	96.6		12.7
	Prometryn	99.6	104	95.5		8.18
	Pronamide	101	118	95.6		21.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Propanil	93.8	110	89.2			21.1
	Propargite	59.9	60.8	50.0			19.4
	Propiconazole	72.9	73.4	80.4			9.03
	Pyraflufen Ethyl	89.9	73.6	81.8			10.5
	Pyridaben	86.9	50.8	51.4			1.15
	Pyriproxyfen	125	92.3	113			19.8
	Simazine	82.1	80.3	60.5			24.6
	Stirophos	46.6	47.3	44.8			5.50
	Sulfentrazone	39.8	77.7	62.0			22.6
	Tau-Fluvalinate	68.8	103	100			2.18
	Tebuconazole	47.6	56.2	50.6			10.6
	Terbufos	110	124	115			7.49
	Terbuthylazine	82.6	91.9	84.6			8.21
	Tetradecachloro-m-terphenyl	126	74.0	74.2			0.349
	Tetramethrin	65.5	84.7	93.5			9.88
	Thiobencarb	90.2	95.0	79.7			17.6
	Trans-Nonachlor	71.0	96.9	75.3			25.1
	Tri-o-cresyl Phosphate	101	94.8	94.1			0.742
	Triadimefon	85.4	98.5	75.8			26.0
	Triclosan Methyl	66.1	79.0	79.6			0.814
	Trifluralin	69.8	74.0	70.2			5.26
	Tris(1-chloro-2-propyl) phosphate (TCPP)	106	104	103			1.19
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	97.4	97.9	93.5			4.55
	Tris(2-chloroethyl) phosphate (TCEP)	108	106	102			4.23
EPA 8276	Chlordane	92.2	72.0	67.8			5.59
	Toxaphene	99.8	82.9	76.9			7.50
EPA 8321B	2,4-D	130	93.5	90.8			2.97
	2,4,5-T	119	93.3	86.5			7.48
	3-Hydroxycarbofuran	82.1	57.3	53.6			6.67
	Acesulfame K	95.9	88.0	87.9			0.157
	Acetaminophen	98.9	116	111			5.12
	Acetamiprid	92.1	65.1	66.9			2.84
	Afidopyropen	48.0	51.3	57.3			11.1
	Aldicarb	42.4	35.7	33.6			6.27
	Aldicarb Sulfone	100	55.7	54.4			2.40
	Aldicarb Sulfoxide	131	27.5	26.1			5.21
	AMPA	76.6	64.6	64.3			0.354
	Bentazon	93.0	37.7	37.6			0.151
	Benzovindiflupyr	91.2	83.3	80.2			3.79
	Carbamazepine	95.8	67.4	65.1			3.44
	Carbaryl	79.5	57.8	54.7			5.60
	Carbofuran	85.6	50.6	46.7			7.84
	Clothianidin	110	83.2	79.4			4.66
	Dinotefuran	116	95.6	87.5			8.80
	Diuron	90.0	56.3	56.0			0.585
	Endothall	99.7	155	156			0.668
	Fenuron	98.1	57.0	55.5			2.57
	Fluridone	79.7	44.9	39.9			11.8
	Glufosinate	126	119	108			9.58
	Glyphosate	72.5	115	96.5			17.4
	Hydrocodone	97.7	59.4	55.5			6.74

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Ibuprofen	74.8	50.8	60.8		17.9
	Imazapyr	98.0				0.792
	Imidacloprid	96.6	116	108		6.34
	Linuron	71.1	50.8	46.9		8.07
	Mandestrobin	90.9	69.7	66.7		4.45
	MCCP	110	91.5	85.3		7.06
	Methiocarb	64.8	56.3	52.7		6.64
	Methomyl	89.5	50.9	48.9		4.00
	Naproxen	70.8	55.5	60.3		8.29
	Oxamyl	100	52.0	50.6		2.59
	Primidone	97.3	75.1	68.6		8.95
	Propoxur	90.0	47.3	45.7		3.36
	Pyraclostrobin	88.9	81.2	77.0		5.32
	Silvex	85.4	83.1	72.3		13.8
	Sucralose	99.3	96.9	108		10.5
	Thiamethoxam	108	82.7	78.2		5.57
	Tolfenpyrad	59.2	60.0	61.2		2.01
	Triclopyr	114	99.1	93.7		5.61
SM 2320 B-2011	Total Alkalinity	96.4			2.67	
SM 2540 C-2015	TDS	94.0			7.16	
SM 2540 D-2015	TSS	92.4				
SM 4500-F- C-2011	Fluoride	98.8	97.5	95.9		1.01
SM 5310 B-2011	Organic Carbon	95.0	96.1	96.8		0.483

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2440357, 2440359
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2440357, 2440359
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2440369
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2440369
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2440357, 2440359
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2440357, 2440359
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2440358, 2440360
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2440358, 2440360
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2440358, 2440360
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2440358, 2440360
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2440368
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2440367
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2440368
EPA 8270E	PCBs in water matrices by GC/MS/MS	2440367
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2440367
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2440365
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2440366
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2440357, 2440359
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2440369
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2440357, 2440359
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2440357, 2440359
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2440357, 2440359
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2440358, 2440360

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	09/26/2023			09/26/2023 16:02	Alexis Price	2440357, 2440359
EPA 180.1 Rev. 2.0	09/26/2023			09/26/2023 15:23	Khloe J Berg	2440357
	09/26/2023			09/26/2023 15:24	Khloe J Berg	2440359
EPA 200.7 Rev. 4.4	09/26/2023	09/28/2023 13:30	George D Taylor	09/29/2023 13:05	McKinley C Carter	2440369
EPA 200.8 Rev. 5.4	09/26/2023	09/28/2023 13:30	George D Taylor	09/29/2023 16:56	Conrad Hartmann	2440369
	09/26/2023	09/28/2023 13:30	George D Taylor	10/02/2023 14:17	Conrad Hartmann	2440369
EPA 300.0 Rev. 2.1	09/26/2023			10/04/2023 18:00	James L Waggerby	2440357
	09/26/2023			10/04/2023 18:45	James L Waggerby	2440359
EPA 350.1 Rev. 2.0	09/26/2023			09/29/2023 11:21	Khloe J Berg	2440358
	09/26/2023			09/29/2023 11:22	Khloe J Berg	2440360
EPA 351.2 Rev. 2.0	09/26/2023	10/05/2023 15:15	Simonne.V. Calhoun	10/09/2023 14:14	Samantha L Bates	2440358
	09/26/2023	10/05/2023 15:15	Simonne.V. Calhoun	10/09/2023 14:16	Samantha L Bates	2440360
EPA 353.2 Rev. 2.0	09/26/2023			10/09/2023 13:12	Anna M. Plaviak	2440358
	09/26/2023			10/09/2023 13:14	Anna M. Plaviak	2440360
EPA 365.1 Rev. 2.0	09/26/2023	09/28/2023 13:36	Alexis Price	09/29/2023 11:37	Chandler E Cox	2440358
	09/26/2023	09/28/2023 13:36	Alexis Price	10/02/2023 13:54	Chandler E Cox	2440360
EPA 8270E	09/26/2023	09/28/2023 08:00	Fe-Val Siddell	09/29/2023 19:52	Vandana T. Nagar	2440368
	09/26/2023	09/28/2023 08:00	Fe-Val Siddell	09/30/2023 22:23	Arthur Maknenko	2440368
	09/26/2023	09/28/2023 08:00	Fe-Val Siddell	10/06/2023 19:26	Vandana T. Nagar	2440368
	09/26/2023	10/02/2023 08:00	Fe-Val Siddell	10/04/2023 01:04	Julie Wi	2440367
	09/26/2023	10/02/2023 08:00	Fe-Val Siddell	10/04/2023 02:14	Julie Wi	2440367
	09/26/2023	10/02/2023 08:00	Fe-Val Siddell	10/05/2023 04:00	Julie Wi	2440367
EPA 8276	09/26/2023	10/02/2023 08:00	Fe-Val Siddell	10/06/2023 06:44	Arthur Maknenko	2440367
EPA 8321B	09/26/2023	09/27/2023 09:00	Hoor Shaik	09/29/2023 00:35	Juyoung Kim	2440365
	09/26/2023	09/27/2023 12:00	Hana Lee	09/27/2023 13:33	Tae K Lee	2440366
	09/26/2023	09/27/2023 12:00	Hana Lee	09/27/2023 22:30	Tae K Lee	2440366
	09/26/2023	09/29/2023 09:00	Hoor Shaik	09/29/2023 19:04	Juyoung Kim	2440366
	09/26/2023	09/29/2023 09:00	Hoor Shaik	10/02/2023 21:45	Juyoung Kim	2440366
	09/26/2023	10/02/2023 13:15	Hoor Shaik	10/03/2023 20:23	Juyoung Kim	2440366
SM 2320 B-2011	09/26/2023			09/29/2023 18:37	Adam P Silver	2440357
	09/26/2023			09/29/2023 18:49	Adam P Silver	2440359
SM 2340 B-2011	09/26/2023			09/29/2023 13:05	McKinley C Carter	2440369
SM 2540 C-2015	09/26/2023			09/27/2023 15:41	Yijie Li	2440357, 2440359
SM 2540 D-2015	09/26/2023			09/27/2023 15:41	Yijie Li	2440357, 2440359
SM 4500-F- C-2011	09/26/2023			09/29/2023 18:37	Adam P Silver	2440357
	09/26/2023			09/29/2023 18:49	Adam P Silver	2440359
SM 5310 B-2011	09/26/2023			09/29/2023 21:09	Khloe J Berg	2440358
	09/26/2023			09/29/2023 21:22	Khloe J Berg	2440360