

Chemical Analysis Report

SE-DIST-2023-10-06-01

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

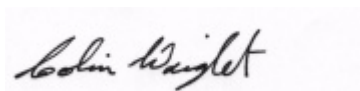
Event Description: **SE Okeechobee**
Request ID: **RQ-2023-10-02-58**
Customer: **SE-DIST**
Project ID: **SMP**

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

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Certified by: Colin Wright, Program Administrator

Date Certified: 25-OCT-2023 08:30

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

Case Narrative

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

Results for the following analytical groups are included in this report: 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: SFWMD C2444 AT BEAN CITY

Collection Date/Time: 10/05/2023 13:30

Field ID: G5SE0029

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2443346	DEP SOP: NU-094-1	Color (true)	92		PCU	P436145	
	EPA 180.1 Rev. 2.0	Turbidity	4.3		NTU	P436138	
	EPA 300.0 Rev. 2.1	Chloride	140		mg Cl/L	P436323	
		Sulfate	130		mg SO4/L	P436326	
	SM 2320 B-2011	Total Alkalinity	385		mg CaCO3/L	P436470	
	SM 2540 C-2015	TDS	876		mg/L	P436766	RPD
	SM 2540 D-2015	TSS	5	I	mg/L	P436583	
	SM 4500-F- C-2011	Fluoride	0.60		mg F/L	P436359	
2443347	EPA 350.1 Rev. 2.0	Ammonia-N	1.0		mg N/L	P436287	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	3.1		mg N/L	P436271	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	I	mg N/L	P436380	
	EPA 365.1 Rev. 2.0	Total-P	0.14		mg P/L	P436220	MS
	SM 5310 B-2011	Organic Carbon	26		mg C/L	P436333	

Ref. Method and Comment:

SM 4500-F- C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: FARM CANAL AT HWY 98 AND SR 717

Collection Date/Time: 10/05/2023 14:15

Field ID: G5SE0091

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2443348	DEP SOP: NU-094-1	Color (true)	210	A	PCU	P436143	
	EPA 180.1 Rev. 2.0	Turbidity	20		NTU	P436138	
	EPA 300.0 Rev. 2.1	Chloride	120		mg Cl/L	P436323	
		Sulfate	280		mg SO4/L	P436326	
	SM 2320 B-2011	Total Alkalinity	386		mg CaCO3/L	P436470	
	SM 2540 C-2015	TDS	1.19E+03		mg/L	P436766	RPD
	SM 2540 D-2015	TSS	27		mg/L	P436583	
	SM 4500-F- C-2011	Fluoride	0.58		mg F/L	P436359	
2443349	EPA 350.1 Rev. 2.0	Ammonia-N	1.5		mg N/L	P436287	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	5.9		mg N/L	P436271	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.19		mg N/L	P436453	
	EPA 365.1 Rev. 2.0	Total-P	0.26		mg P/L	P436220	MS
	SM 5310 B-2011	Organic Carbon	55		mg C/L	P436333	
2443354	EPA 8321B	Aldicarb	0.020	U	ug/L	P436137	
		Aldicarb Sulfone	0.0020	U	ug/L	P436137	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P436137	MS
		Carbaryl	0.0020	U	ug/L	P436137	
		Carbofuran	0.0020	U	ug/L	P436137	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P436137	
		Methiocarb	0.0020	U	ug/L	P436137	
		Methomyl	0.0020	U	ug/L	P436137	
		Oxamyl	0.0020	U	ug/L	P436137	
		Propoxur	0.0020	U	ug/L	P436137	
		2,4-D	1.7		ug/L	P436051	
		Acesulfame K	0.10	U	ug/L	P436195	
		2,4,5-T	0.0040	U	ug/L	P436051	
2443355		AMPA	0.45		ug/L	P436195	
		Acetaminophen	0.0080	U	ug/L	P436051	
		Acetamiprid	0.0020	U	ug/L	P436051	
		Endothall	0.25	U	ug/L	P436195	
		Glufosinate	0.10	U	ug/L	P436195	
		Glyphosate	3.4		ug/L	P436195	
		Afidopyropen	0.0020	U	ug/L	P436051	
		Bentazon	0.043		ug/L	P436051	
		Sucralose	0.042		ug/L	P436195	
		Benzovindiflupyr	0.0041	I	ug/L	P436051	
		Carbamazepine	8.0E-04	U	ug/L	P436051	
		Clothianidin	0.0020	U	ug/L	P436051	
		Dinotefuran	0.0020	U	ug/L	P436051	
		Diuron	0.0020	U	ug/L	P436051	
		Fenuron	0.032	U	ug/L	P436051	
		Fluridone	8.0E-04	U	ug/L	P436051	
		Imazapyr	0.023		ug/L	P436051	
		Hydrocodone	0.0020	U	ug/L	P436051	

Field ID: G5SE0091

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2443355	EPA 8321B	Ibuprofen	0.080	U	ug/L	P436051	
		Imidacloprid	0.0020	U	ug/L	P436051	
		Linuron	0.0040	U	ug/L	P436051	
		Mandestrobin	0.0020	U	ug/L	P436051	
		MCP	0.0020	U	ug/L	P436051	
		Naproxen	0.0080	U	ug/L	P436051	
		Primidone	0.0040	U	ug/L	P436051	
		Pyraclostrobin	0.0020	U	ug/L	P436051	
		Silvex	0.0040	U	ug/L	P436051	
		Thiamethoxam	0.0020	U	ug/L	P436051	
		Tolfenpyrad	0.0020	U	ug/L	P436051	
		Triclopyr	0.0040	U	ug/L	P436051	
2443356	EPA 8270E	Aldrin	0.69	U	ng/L	P435920	
		Alpha-BHC	0.11	U	ng/L	P435920	
		Alpha-Chlordane	0.22	I	ng/L	P435920	
		PCB-1016	2.1	U	ng/L	P435920	
		Beta-BHC	0.11	U	ng/L	P435920	
		PCB-1221	2.1	U	ng/L	P435920	
		Beta-Cyfluthrin	1.3	U	ng/L	P435920	
		PCB-1232	2.1	U	ng/L	P435920	
		Bifenthrin	0.53	U	ng/L	P435920	
		PCB-1242	2.1	U	ng/L	P435920	
		PCB-1248	2.1	U	ng/L	P435920	
		Chlorothalonil	3.8	U	ng/L	P435920	
		PCB-1254	2.1	U	ng/L	P435920	
		Cis-Nonachlor	0.21	U	ng/L	P435920	
		PCB-1260	2.1	U	ng/L	P435920	
		Cypermethrin	1.6	U	ng/L	P435920	
		Dacthal	0.16	U	ng/L	P435920	
		DDD-p,p'	0.27	U	ng/L	P435920	
		DDE-p,p'	1.2		ng/L	P435920	
		DDT-p,p'	0.85	U	ng/L	P435920	
		Delta-BHC	0.43	U	ng/L	P435920	
		Deltamethrin	1.3	U	ng/L	P435920	
		Dichlobenil	0.27	U	ng/L	P435920	
		Dicofol	1.3	U	ng/L	P435920	
		Diieldrin	1.0	I	ng/L	P435920	
		Endosulfan I	0.43	U	ng/L	P435920	
		Endosulfan II	0.96	U	ng/L	P435920	
		Endosulfan Sulfate	0.32	U	ng/L	P435920	
		Endrin	0.96	U	ng/L	P435920	
		Endrin Aldehyde	0.80	U	ng/L	P435920	
		Endrin Ketone	0.43	U	ng/L	P435920	
		Esfenvalerate	0.80	U	ng/L	P435920	
		Ethalfuralin	0.16	U	ng/L	P435920	

Field ID: G5SE0091

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2443356	EPA 8270E	Fenpropathrin	0.27	U	ng/L	P435920	
		Gamma-BHC	0.13	U	ng/L	P435920	
		Gamma-Chlordane	0.34	I	ng/L	P435920	
		Heptachlor	0.21	U	ng/L	P435920	
		Heptachlor Epoxide	0.27	U	ng/L	P435920	
		Hexachlorobenzene**	1.1	U	ng/L	P435920	
		Kepone	14	U	ng/L	P435920	
		Lambda-Cyhalothrin	0.80	U	ng/L	P435920	
		Methoprene	0.80	U	ng/L	P435920	
		Methoxychlor	0.32	U	ng/L	P435920	
		MGK-264	0.21	U	ng/L	P435920	
		Mirex	0.37	U	ng/L	P435920	
		Oxychlordane	0.32	U	ng/L	P435920	
		Permethrin	1.7	U	ng/L	P435920	
		Phenothrin	0.96	U	ng/L	P435920	
		Piperonyl Butoxide	2.8		ng/L	P435920	
		Prallethrin	2.1	U	ng/L	P435920	
		Tau-Fluvalinate	0.27	U	ng/L	P435920	
		Tetramethrin	0.80	U	ng/L	P435920	
		Trans-Nonachlor	0.21	U	ng/L	P435920	
		Triclosan Methyl	0.16	U	ng/L	P435920	
		Trifluralin	0.21	U	ng/L	P435920	
		Chlordane	2.1	U	ng/L	P435920	
		Toxaphene	310		ng/L	P435920	
2443357	EPA 8270E	Oxybenzone**	10	U	ng/L	P436252	
		Acetochlor	0.21	U	ng/L	P436252	
		Octinoxate**	150	U	ng/L	P436252	
		Alachlor	0.41	U	ng/L	P436252	
		Avobenzone**	100	U	ng/L	P436252	
		Ametryn	54		ng/L	P436252	
		Atrazine	500		ng/L	P436252	
		PBDE-47**	4.1	U	ng/L	P436252	RPD
		Atrazine Desethyl	9.0		ng/L	P436252	
		PBDE-99**	5.1	U	ng/L	P436252	
		Azinphos Methyl	3.1	U	ng/L	P436252	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P436252	
		Azoxystrobin	41		ng/L	P436252	
		Bromacil	0.62	U	ng/L	P436252	
		2-Ethylhexyl	12	U	ng/L	P436252	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.46	U	ng/L	P436252	
		Dechlorane Plus**	31	U	ng/L	P436252	
		Caffeine**	7.7	U	ng/L	P436252	
		Dechlorane 602**	5.1	U	ng/L	P436252	RPD
		Carbophenothion	0.51	U	ng/L	P436252	

Field ID: G5SE0091

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2443357	EPA 8270E	Dechlorane 603**	4.1	U	ng/L	P436252	
		Carfentrazone Ethyl	0.15	U	ng/L	P436252	
		Hexabromobenzene**	6.2	U	ng/L	P436252	
		Chlorfenapyr	0.31	U	ng/L	P436252	
		PBB-153**	6.2	U	ng/L	P436252	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P436252	
		Pentabromotoluene**	3.1	U	ng/L	P436252	
		Chlorpyrifos Methyl	0.10	U	ng/L	P436252	
		Tris(2-chloroethyl) phosphate (TCEP)**	56	U	ng/L	P436252	RPD
		Coumaphos	1.1	U	ng/L	P436252	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	26	U	ng/L	P436252	
		Cyanazine	5.1	U	ng/L	P436252	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P436252	
		Cyprodinil	0.21	U	ng/L	P436252	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P436252	
		Demeton	3.6	U	ng/L	P436252	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	62	U	ng/L	P436252	RPD
		Diazinon	0.13	U	ng/L	P436252	
		Difenoconazole	0.62	UJ	ng/L	P436252	CCV
		Dimethenamid	0.10	U	ng/L	P436252	
		Dimethomorph	0.31	U	ng/L	P436252	
		Disulfoton	0.62	U	ng/L	P436252	
		Dithiopyr	1.0	U	ng/L	P436252	
		EPTC	0.51	U	ng/L	P436252	
		Ethion	0.31	U	ng/L	P436252	
		Ethoprop	0.13	U	ng/L	P436252	
		Etridiazole	0.10	U	ng/L	P436252	
		Fenamiphos	0.46	U	ng/L	P436252	
		Fenbuconazole	0.51	U	ng/L	P436252	
		Fipronil	0.21	U	ng/L	P436252	MS, RPD
		Fipronil Desulfinyl**	0.10	U	ng/L	P436252	MS, RPD
		Fipronil Sulfide	0.10	U	ng/L	P436252	MS, RPD
		Fipronil Sulfone	0.10	U	ng/L	P436252	RPD
		Fluazifop-P-butyl	0.10	U	ng/L	P436252	RPD
		Fludioxonil	0.10	U	ng/L	P436252	
		Flumioxazin	3.1	U	ng/L	P436252	
		Flutolanil	0.10	U	ng/L	P436252	RPD
		Fluxapyroxad	5.3		ng/L	P436252	
		Fonofos	0.15	U	ng/L	P436252	
		Hexazinone	5.4	J	ng/L	P436252	
		Imazalil	0.67	U	ng/L	P436252	
		Iprodione	0.51	U	ng/L	P436252	
		Loratadine**	0.31	U	ng/L	P436252	
		Malathion	0.36	U	ng/L	P436252	

Field ID: G5SE0091

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2443357	EPA 8270E	Metalaxyl	0.51	U	ng/L	P436252	
		Metolachlor	4.0		ng/L	P436252	
		Metribuzin	7.3		ng/L	P436252	
		Mevinphos	1.0	U	ng/L	P436252	
		Molinate	0.26	U	ng/L	P436252	
		Myclobutanil	0.36	U	ng/L	P436252	
		Naled	2.6	U	ng/L	P436252	
		Napropamide	0.72	U	ng/L	P436252	
		Norflurazon	1.0	U	ng/L	P436252	
		Oxadiazon	0.36	U	ng/L	P436252	
		Oxyfluorfen	0.21	U	ng/L	P436252	
		Parathion Ethyl	0.15	U	ng/L	P436252	
		Parathion Methyl	0.21	U	ng/L	P436252	
		Pendimethalin	1.7	U	ng/L	P436252	
		Phenytol**	5.4	U	ng/L	P436252	
		Phorate	0.26	U	ng/L	P436252	
		Prodiamine	0.21	U	ng/L	P436252	
		Prometon	3.1	U	ng/L	P436252	
		Prometryn	1.2	I	ng/L	P436252	
		Pronamide	0.10	U	ng/L	P436252	
		Propanil	0.10	U	ng/L	P436252	
		Propargite	0.82	U	ng/L	P436252	
		Propiconazole	34		ng/L	P436252	
		Pyraflufen Ethyl	0.31	U	ng/L	P436252	
		Pyridaben	1.4	U	ng/L	P436252	
		Pyriproxyfen	0.26	U	ng/L	P436252	
		Simazine	0.26	U	ng/L	P436252	
		Stirophos	0.41	U	ng/L	P436252	
		Sulfentrazone	1.4	U	ng/L	P436252	
		Tebuconazole	1.4	U	ng/L	P436252	
		Terbufos	0.21	U	ng/L	P436252	
		Terbutylazine	0.21	U	ng/L	P436252	
		Thiobencarb	0.51	U	ng/L	P436252	
		Triadimefon	0.15	U	ng/L	P436252	
2443358	EPA 200.7 Rev. 4.4	Calcium	194		mg/L	P436192	
		Iron	420		ug/L	P436192	
		Magnesium	55.4		mg/L	P436192	
		Potassium	7.0		mg/L	P436192	
		Sodium	77.1		mg/L	P436192	
		Strontium	4.37E+03		ug/L	P436192	
		Tin	3.0	U	ug/L	P436192	
		Titanium	4.2		ug/L	P436192	
		Vanadium	2.1	I	ug/L	P436192	
		Zinc	5.0	U	ug/L	P436192	
	EPA 200.8 Rev. 5.4	Aluminum	203		ug/L	P436192	

Field ID: G5SE0091

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2443358	EPA 200.8 Rev. 5.4	Antimony	0.17	I	ug/L	P436192	
		Arsenic	6.68		ug/L	P436192	
		Barium	170		ug/L	P436192	
		Beryllium	0.037	I	ug/L	P436192	
		Boron	171		ug/L	P436192	
		Cadmium	0.020	U	ug/L	P436192	
		Chromium	1.1	I	ug/L	P436192	
		Cobalt	0.501		ug/L	P436192	
		Copper	0.97		ug/L	P436192	
		Lead	0.26	I	ug/L	P436192	
		Manganese	43.5		ug/L	P436192	
		Molybdenum	4.70		ug/L	P436192	
		Nickel	1.0	I	ug/L	P436192	
		Selenium	0.60	I	ug/L	P436192	
		Silver	0.010	U	ug/L	P436192	
		Thallium	0.10	U	ug/L	P436192	
	SM 2340 B-2011	Hardness	712		mg/L	P436192	

Ref. Method and Comment:
 SM 4500-F- C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
 EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high 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 8270E: MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked. Estimation for hexazinone due to internal standard recovery exceeding control limits. Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P436143

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P436145

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436138

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P436192

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: P436192

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	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436323

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436326

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436287

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436271

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436380

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436453

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436220

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

Reference Method: EPA 8270E
Batch ID: P435920

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P435920

Component	Result	Code	Units
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
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 8270E

Batch ID: P436252

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P436252

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P436252

Component	Result	Code	Units
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	0.75	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytol	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
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: P435920

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P436051

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

Reference Method: EPA 8321B

Batch ID: P436137

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

Reference Method: EPA 8321B

Batch ID: P436195

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P436195

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P436470

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

Reference Method: SM 2540 C-2015
Batch ID: P436766

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P436583

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P436359

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P436333

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: P436143

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

Reference Method: DEP SOP: NU-094-1
Batch ID: P436145

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436138

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P436192

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	103		P	85 - 115
Iron	102		P	85 - 115
Magnesium	104		P	85 - 115
Potassium	96.9		P	85 - 115
Sodium	103		P	85 - 115
Strontium	103		P	85 - 115
Tin	101		P	85 - 115
Titanium	98.6		P	85 - 115
Vanadium	101		P	85 - 115
Zinc	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P436192

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	94.2		P	85 - 115
Antimony	92.4		P	85 - 115
Arsenic	95.4		P	85 - 115
Barium	97.6		P	85 - 115
Beryllium	95.4		P	85 - 115
Boron	95.5		P	85 - 115
Cadmium	94.0		P	85 - 115
Chromium	91.5		P	85 - 115
Cobalt	93.9		P	85 - 115
Copper	94.5		P	85 - 115
Lead	92.0		P	85 - 115
Manganese	91.0		P	85 - 115
Molybdenum	93.4		P	85 - 115
Nickel	93.9		P	85 - 115
Selenium	96.8		P	85 - 115
Silver	105		P	85 - 115
Thallium	96.4		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436323

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436326

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436287

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436271

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436380

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436453

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436220

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

Reference Method: EPA 8270E
Batch ID: P435920

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	50.4		P	24 - 81.0
Alpha-BHC	86.0		P	65 - 110
Alpha-Chlordane	92.1		P	43 - 119
Beta-BHC	109		P	54 - 165
Beta-Cyfluthrin	70.0		P	27 - 165
Bifenthrin	49.5		P	17 - 117
Chlorothalonil	124		P	10 - 255
Cis-Nonachlor	84.7		P	34 - 98.0
Cypermethrin	47.4		P	25 - 143
Dacthal	86.6		P	55 - 139

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P435920

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
DDD-p,p'	59.0		P	30 - 109
DDE-p,p'	51.5		P	35 - 106
DDT-p,p'	63.3		P	41 - 101
Delta-BHC	142		P	58 - 165
Deltamethrin	81.7		P	10 - 194
Dichlobenil	78.7		P	22 - 114
Dicofol	77.0		P	17 - 133
Dieldrin	59.5		P	45 - 129
Endosulfan I	66.7		P	49 - 104
Endosulfan II	68.6		P	37 - 117
Endosulfan Sulfate	93.4		P	38 - 128
Endrin	55.5		P	35 - 116
Endrin Aldehyde	82.4		P	19 - 108
Endrin Ketone	91.6		P	44 - 134
Esfenvalerate	80.6		P	27 - 176
Ethalfuralin	76.2		P	49 - 100
Fenpropathrin	60.6		P	34 - 117
Gamma-BHC	109		P	59 - 129
Gamma-Chlordane	99.4		P	33 - 107
Heptachlor	57.3		P	37 - 94.0
Heptachlor Epoxide	75.7		P	38 - 118
Hexachlorobenzene	64.6		P	35 - 97.0
Kepone	88.8		P	10 - 221
Lambda-Cyhalothrin	37.2		P	23 - 190
Methoprene	45.0		P	21 - 109
Methoxychlor	78.7		P	46 - 118
MGK-264	99.0		P	39 - 122
Mirex	50.4		P	25 - 90.0
Oxychlordane	64.7		P	42 - 100
PCB-1016	69.2		P	45 - 107
PCB-1260	76.3		P	40 - 118
Permethrin	62.9		P	33 - 181
Phenothrin	53.3		P	12 - 125
Piperonyl Butoxide	91.1		P	10 - 178
Prallethrin	63.1		P	24 - 122
Tau-Fluvalinate	67.6		P	13 - 151
Tetramethrin	72.4		P	16 - 172
Trans-Nonachlor	64.1		P	39 - 100
Triclosan Methyl	67.1		P	43 - 110
Trifluralin	63.5		P	45 - 94.0

Reference Method: EPA 8270E

Batch ID: P436252

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	75.1		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	107		P	37 - 154
Acetochlor	90.1		P	64 - 124
Alachlor	87.9		P	61 - 118
Ametryn	138		P	47 - 158
Atrazine	99.6		P	68 - 121
Atrazine Desethyl	110		P	30 - 119

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P436252

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Avobenzene	119		P	48 - 193
Azinphos Methyl	88.7		P	30 - 194
Azoxystrobin	103		P	58 - 154
Bromacil	113		P	47 - 126
Butylate	69.0		P	31 - 83.0
Caffeine	75.9		P	10 - 180
Carbophenothion	95.1		P	59 - 133
Carfentrazone Ethyl	110		P	59 - 147
Chlorfenapyr	98.0		P	52 - 118
Chlorpyrifos Ethyl	100		P	59 - 119
Chlorpyrifos Methyl	102		P	65 - 123
Coumaphos	92.3		P	11 - 223
Cyanazine	232		P	63 - 250
Cyprodinil	117		P	52 - 143
Dechlorane 602	80.1		P	23 - 142
Dechlorane 603	111		P	51 - 171
Dechlorane Plus	94.8		P	46 - 161
Demeton	95.3		P	42 - 119
Diazinon	112		P	67 - 132
Difenoconazole	79.0		P	12 - 204
Dimethenamid	97.8		P	53 - 113
Dimethomorph	225		P	13 - 238
Disulfoton	123		P	56 - 126
Dithiopyr	97.7		P	58 - 127
EPTC	58.5		P	31 - 78.0
Ethion	53.8		P	24 - 127
Ethoprop	103		P	60 - 118
Etridiazole	77.0		P	32 - 91.0
Fenamiphos	97.6		P	54 - 129
Fenbuconazole	66.1		P	31 - 162
Fipronil	86.1		P	56 - 131
Fipronil Desulfinyl	115		P	58 - 132
Fipronil Sulfide	104		P	51 - 123
Fipronil Sulfone	87.1		P	50 - 125
Fluazifop-P-butyl	108		P	52 - 132
Fludioxonil	91.6		P	52 - 129
Flumioxazin	126		P	34 - 250
Flutolanil	88.0		P	45 - 128
Fluxapyroxad	95.2		P	31 - 150
Fonofos	108		P	60 - 116
Hexabromobenzene	120		P	52 - 165
Hexazinone	105		P	59 - 120
Imazalil	75.6		P	39 - 134
Iprodione	109		P	39 - 243
Loratadine	170		P	10 - 240
Malathion	118		P	53 - 145
Metalaxyl	113		P	59 - 120
Metolachlor	105		P	64 - 122
Metribuzin	115		P	33 - 128
Mevinphos	114		P	48 - 119
Molinate	61.5		P	42 - 89.0
Myclobutanil	108		P	54 - 129

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P436252

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Naled	55.3		P	10 - 138
Napropamide	90.5		P	40 - 122
Norflurazon	110		P	49 - 132
Octinoxate	145		P	29 - 176
Oxadiazon	91.0		P	50 - 115
Oxybenzone	123		P	45 - 145
Oxyfluorfen	125		P	62 - 149
Parathion Ethyl	107		P	68 - 119
Parathion Methyl	132		P	68 - 147
PBB-153	108		P	42 - 179
PBDE-47	102		P	44 - 141
PBDE-99	94.9		P	36 - 141
Pendimethalin	116		P	59 - 158
Pentabromotoluene	115		P	58 - 148
Phenytoin	53.8		P	10 - 151
Phorate	122		P	44 - 124
Prodiamine	50.7		P	10 - 136
Prometon	121		P	45 - 131
Prometryn	127		P	52 - 140
Pronamide	110		P	70 - 129
Propanil	127		P	54 - 144
Propargite	74.3		P	10 - 191
Propiconazole	106		P	49 - 128
Pyraflufen Ethyl	132		P	46 - 141
Pyridaben	88.2		P	29 - 198
Pyriproxyfen	76.4		P	33 - 221
Simazine	85.9		P	62 - 119
Stirophos	62.6		P	13 - 144
Sulfentrazone	83.9		P	12 - 152
Tebuconazole	68.8		P	10 - 135
Terbufos	127		P	67 - 136
Terbuthylazine	86.9		P	66 - 113
Tetradecachloro-m-terphenyl	109		P	30 - 235
Thiobencarb	112		P	51 - 125
Tri-o-cresyl Phosphate	123		P	50 - 150
Triadimefon	100		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	140		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	106		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	109		P	59 - 166

Reference Method: EPA 8276
Batch ID: P435920

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	90.2		P	52 - 117
Toxaphene	85.9		P	44 - 125

Reference Method: EPA 8321B
Batch ID: P436051

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	89.1		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P436051

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4,5-T	94.6		P	40 - 150
Acetaminophen	77.3		P	30 - 150
Acetamiprid	83.5		P	40 - 150
Afidopyropen	77.9		P	30 - 150
Bentazon	91.8		P	30 - 150
Benzovindiflupyr	78.7		P	40 - 150
Carbamazepine	76.3		P	40 - 150
Clothianidin	84.6		P	40 - 150
Dinotefuran	90.8		P	40 - 150
Diuron	81.3		P	40 - 150
Fenuron	79.0		P	40 - 150
Fluridone	101		P	40 - 150
Hydrocodone	97.2		P	40 - 150
Ibuprofen	76.6		P	40 - 150
Imazapyr	84.1		P	40 - 150
Imidacloprid	78.2		P	40 - 150
Linuron	85.9		P	40 - 150
Mandestrobin	88.4		P	40 - 150
MCPP	91.8		P	40 - 150
Naproxen	55.2		P	40 - 150
Primidone	82.7		P	40 - 150
Pyraclostrobin	73.2		P	40 - 150
Silvex	77.7		P	40 - 150
Thiamethoxam	90.7		P	40 - 150
Tolfenpyrad	49.8		P	30 - 150
Triclopyr	101		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P436137

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	72.3		P	40 - 150
Aldicarb	66.5		P	30 - 150
Aldicarb Sulfone	88.6		P	40 - 150
Aldicarb Sulfoxide	100		P	40 - 150
Carbaryl	73.5		P	40 - 150
Carbofuran	85.9		P	40 - 150
Methiocarb	61.3		P	40 - 150
Methomyl	74.7		P	40 - 150
Oxamyl	81.4		P	40 - 150
Propoxur	80.6		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P436195

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	106		P	40 - 150
AMPA	93.4		P	40 - 150
Endothall	90.0		P	40 - 150
Glufosinate	78.2		P	40 - 150
Glyphosate	73.9		P	40 - 150
Sucralose	91.3		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P436470

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

Reference Method: SM 2540 C-2015
Batch ID: P436766

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

Reference Method: SM 2540 D-2015
Batch ID: P436583

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	108		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P436359

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

Reference Method: SM 5310 B-2011
Batch ID: P436333

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: P436192

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443262	Calcium	96.5	101	P/P	80 - 120
2443262	Iron	96.7	99.7	P/P	80 - 120
2443262	Magnesium	97.3	101	P/P	80 - 120
2443262	Potassium	94.5	94.7	P/P	80 - 120
2443262	Sodium	102		P	80 - 120
2443262	Strontium	101	102	P/P	80 - 120
2443262	Tin	100	102	P/P	80 - 120
2443262	Titanium	100	101	P/P	80 - 120
2443262	Vanadium	102	103	P/P	80 - 120
2443262	Zinc	103	102	P/P	80 - 120
2443339	Calcium	101		P	80 - 120
2443339	Iron	101		P	80 - 120
2443339	Magnesium	101		P	80 - 120
2443339	Potassium	97.7		P	80 - 120
2443339	Sodium	103		P	80 - 120
2443339	Strontium	105		P	80 - 120
2443339	Tin	104		P	80 - 120
2443339	Titanium	101		P	80 - 120
2443339	Vanadium	102		P	80 - 120
2443339	Zinc	102		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P436192

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443262	Aluminum	95.7	96.8	P/P	80 - 120
2443262	Antimony	94.0	95.6	P/P	80 - 120
2443262	Arsenic	97.7	98.2	P/P	80 - 120
2443262	Barium	99.6	101	P/P	80 - 120
2443262	Beryllium	92.0	91.4	P/P	80 - 120
2443262	Boron	98.6	97.0	P/P	80 - 120
2443262	Cadmium	95.6	97.6	P/P	80 - 120
2443262	Chromium	94.0	94.6	P/P	80 - 120
2443262	Cobalt	95.9	97.1	P/P	80 - 120
2443262	Copper	95.4	97.1	P/P	80 - 120
2443262	Lead	93.0	93.9	P/P	80 - 120
2443262	Manganese	92.4	93.5	P/P	80 - 120
2443262	Molybdenum	95.6	96.4	P/P	80 - 120
2443262	Nickel	95.5	97.1	P/P	80 - 120
2443262	Selenium	97.6	98.7	P/P	80 - 120
2443262	Silver	103	105	P/P	80 - 120
2443262	Thallium	98.8	99.6	P/P	80 - 120
2443339	Aluminum	94.7		P	80 - 120
2443339	Antimony	93.1		P	80 - 120
2443339	Arsenic	96.2		P	80 - 120
2443339	Barium	98.3		P	80 - 120
2443339	Beryllium	98.2		P	80 - 120
2443339	Boron	96.9		P	80 - 120
2443339	Cadmium	97.2		P	80 - 120
2443339	Chromium	95.8		P	80 - 120
2443339	Cobalt	96.3		P	80 - 120
2443339	Copper	97.3		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P436192

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443339	Lead	94.2		P	80 - 120
2443339	Manganese	91.7		P	80 - 120
2443339	Molybdenum	95.9		P	80 - 120
2443339	Nickel	95.2		P	80 - 120
2443339	Selenium	95.8		P	80 - 120
2443339	Silver	104		P	80 - 120
2443339	Thallium	99.1		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436323

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443359	Chloride	104		P	90 - 110
2443434	Chloride	105		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436326

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443359	Sulfate	103		P	90 - 110
2443434	Sulfate	105		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436287

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443275	Ammonia-N	99.6	98.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436380

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441167	NO2NO3-N	97.0	98.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436453

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443166	NO2NO3-N	101	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436220

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443361	Total-P	112	112	F/F	90 - 110

Reference Method: EPA 8270E
Batch ID: P435920

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2442830	Aldrin	44.1	44.9	P/P	24 - 81.0
2442830	Alpha-BHC	85.7	73.0	P/P	65 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P435920

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2442830	Alpha-Chlordane	107	86.2	P/P	43 - 119
2442830	Beta-BHC	124	115	P/P	54 - 165
2442830	Beta-Cyfluthrin	69.6	67.8	P/P	27 - 165
2442830	Bifenthrin	43.4	42.7	P/P	17 - 117
2442830	Chlorothalonil	130	105	P/P	10 - 255
2442830	Cis-Nonachlor	90.2	75.4	P/P	34 - 98.0
2442830	Cypermethrin	47.6	44.8	P/P	25 - 143
2442830	Dacthal	93.1	78.5	P/P	55 - 139
2442830	DDD-p,p'	63.2	55.2	P/P	30 - 109
2442830	DDE-p,p'	61.3	50.3	P/P	35 - 106
2442830	DDT-p,p'	69.5	59.5	P/P	41 - 101
2442830	Delta-BHC	154	153	P/P	58 - 165
2442830	Deltamethrin	91.9	88.3	P/P	10 - 194
2442830	Dichlobenil	87.6	66.7	P/P	22 - 114
2442830	Dicofol	80.8	76.5	P/P	17 - 133
2442830	Dieldrin	62.9	55.9	P/P	45 - 129
2442830	Endosulfan I	69.3	59.3	P/P	49 - 104
2442830	Endosulfan II	79.2	76.5	P/P	37 - 117
2442830	Endosulfan Sulfate	103	82.9	P/P	38 - 128
2442830	Endrin	69.6	56.7	P/P	35 - 116
2442830	Endrin Aldehyde	86.8	71.1	P/P	19 - 108
2442830	Endrin Ketone	102	88.3	P/P	44 - 134
2442830	Esfenvalerate	81.4	79.3	P/P	27 - 176
2442830	Ethalfuralin	57.2	54.1	P/P	49 - 100
2442830	Fenpropathrin	66.8	54.9	P/P	34 - 117
2442830	Gamma-BHC	97.0	100	P/P	59 - 129
2442830	Gamma-Chlordane	99.0	94.3	P/P	33 - 107
2442830	Heptachlor	48.4	50.0	P/P	37 - 94.0
2442830	Heptachlor Epoxide	74.7	70.6	P/P	38 - 118
2442830	Hexachlorobenzene	70.8	60.9	P/P	35 - 97.0
2442830	Kepone	101	98.5	P/P	10 - 221
2442830	Lambda-Cyhalothrin	33.7	37.1	P/P	23 - 190
2442830	Methoprene	38.9	35.4	P/P	21 - 109
2442830	Methoxychlor	88.5	75.8	P/P	46 - 118
2442830	MGK-264	101	98.4	P/P	39 - 122
2442830	Mirex	52.5	55.7	P/P	25 - 90.0
2442830	Oxychlordane	63.2	51.5	P/P	42 - 100
2442830	Permethrin	63.6	57.9	P/P	33 - 181
2442830	Phenothrin	49.3	49.6	P/P	12 - 125
2442830	Piperonyl Butoxide	99.2	76.2	P/P	10 - 178
2442830	Prallethrin	66.2	72.1	P/P	24 - 122
2442830	Tau-Fluvalinate	72.7	69.4	P/P	13 - 151
2442830	Tetramethrin	71.7	69.4	P/P	16 - 172
2442830	Trans-Nonachlor	66.0	65.0	P/P	39 - 100
2442830	Triclosan Methyl	70.9	57.6	P/P	43 - 110
2442830	Trifluralin	62.4	50.4	P/P	45 - 94.0
2443209	PCB-1016	71.0	74.9	P/P	45 - 107
2443209	PCB-1260	71.2	72.2	P/P	40 - 112

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P436252

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443920	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	61.7	84.8	P/P	50 - 150
2443920	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	101	130	P/P	29 - 155
2443920	Acetochlor	75.4	96.1	P/P	60 - 124
2443920	Alachlor	74.4	73.2	P/P	54 - 122
2443920	Ametryn	127	137	P/P	51 - 208
2443920	Atrazine Desethyl	77.9	77.7	P/P	13 - 124
2443920	Avobenzone	110	142	P/P	35 - 187
2443920	Azinphos Methyl	75.1	76.0	P/P	43 - 276
2443920	Azoxystrobin	84.8	95.9	P/P	52 - 300
2443920	Bromacil	110	91.2	P/P	44 - 134
2443920	Butylate	72.3	79.9	P/P	23 - 82.0
2443920	Caffeine	92.6	96.8	P/P	10 - 277
2443920	Carbophenothion	104	82.6	P/P	47 - 135
2443920	Carfentrazone Ethyl	119	90.4	P/P	46 - 147
2443920	Chlorfenapyr	106	102	P/P	43 - 114
2443920	Chlorpyrifos Ethyl	90.4	93.6	P/P	47 - 124
2443920	Chlorpyrifos Methyl	128	123	P/P	60 - 135
2443920	Coumaphos	97.7	92.3	P/P	10 - 222
2443920	Cyanazine	228	242	P/P	10 - 257
2443920	Cyprodinil	135	116	P/P	42 - 148
2443920	Dechlorane 602	54.1	104	P/P	14 - 133
2443920	Dechlorane 603	93.4	117	P/P	18 - 191
2443920	Dechlorane Plus	81.5	110	P/P	23 - 154
2443920	Demeton	99.3	95.3	P/P	41 - 137
2443920	Diazinon	128	124	P/P	64 - 139
2443920	Difenoconazole	80.3	70.0	P/P	46 - 254
2443920	Dimethenamid	85.6	114	P/P	47 - 117
2443920	Dimethomorph	218	198	P/P	14 - 255
2443920	Disulfoton	116	127	P/P	52 - 130
2443920	Dithiopyr	106	112	P/P	40 - 121
2443920	EPTC	69.7	70.8	P/P	19 - 78.0
2443920	Ethion	47.8	87.2	P/P	12 - 124
2443920	Ethoprop	113	102	P/P	68 - 144
2443920	Etridiazole	95.1	93.6	P/P	26 - 96.0
2443920	Fenamiphos	63.7	62.3	P/P	41 - 129
2443920	Fenbuconazole	69.3	86.9	P/P	26 - 169
2443920	Fipronil	97.1	30.0	P/F	46 - 145
2443920	Fipronil Desulfinyl	140	77.4	F/P	47 - 136
2443920	Fipronil Sulfide	139	59.7	F/P	41 - 127
2443920	Fipronil Sulfone	95.4	56.2	P/P	35 - 133
2443920	Fluazifop-P-butyl	115	74.2	P/P	46 - 131
2443920	Fludioxonil	104	92.9	P/P	51 - 124
2443920	Flumioxazin	102	104	P/P	10 - 289
2443920	Flutolanil	111	66.3	P/P	34 - 130
2443920	Fluxapyroxad	95.6	97.8	P/P	10 - 197
2443920	Fonofos	110	125	P/P	42 - 131
2443920	Hexabromobenzene	108	123	P/P	47 - 178
2443920	Hexazinone	106	99.2	P/P	64 - 125
2443920	Imazalil	95.5	90.2	P/P	37 - 252
2443920	Iprodione	99.9	89.8	P/P	34 - 265
2443920	Loratadine	141	114	P/P	20 - 231
2443920	Malathion	116	91.6	P/P	34 - 164

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P436252

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443920	Metalaxyl	98.5	117	P/P	49 - 125
2443920	Metolachlor	98.5	83.2	P/P	54 - 125
2443920	Metribuzin	115	109	P/P	51 - 139
2443920	Mevinphos	130	127	P/P	46 - 130
2443920	Molinate	73.5	67.7	P/P	39 - 93.0
2443920	Myclobutanil	125	107	P/P	50 - 130
2443920	Naled	62.8	73.9	P/P	10 - 150
2443920	Napropamide	86.7	80.2	P/P	10 - 109
2443920	Norflurazon	110	82.5	P/P	36 - 134
2443920	Octinoxate	128	163	P/P	18 - 170
2443920	Oxadiazon	84.5	95.5	P/P	43 - 112
2443920	Oxybenzone	113	126	P/P	33 - 154
2443920	Oxyfluorfen	127	115	P/P	62 - 154
2443920	Parathion Ethyl	85.1	109	P/P	65 - 120
2443920	Parathion Methyl	178	140	P/P	77 - 185
2443920	PBB-153	90.1	119	P/P	23 - 193
2443920	PBDE-47	79.6	122	P/P	31 - 139
2443920	PBDE-99	74.8	113	P/P	24 - 138
2443920	Pendimethalin	114	124	P/P	50 - 146
2443920	Pentabromotoluene	105	115	P/P	54 - 152
2443920	Phenytoin	74.8	149	P/P	10 - 157
2443920	Phorate	136	134	P/P	54 - 161
2443920	Prodiamine	54.7	46.0	P/P	29 - 160
2443920	Prometon	89.2	86.8	P/P	38 - 145
2443920	Prometryn	118	110	P/P	32 - 151
2443920	Pronamide	99.7	100	P/P	61 - 140
2443920	Propanil	130	130	P/P	50 - 147
2443920	Propargite	69.9	101	P/P	10 - 190
2443920	Propiconazole	131	114	P/P	30 - 146
2443920	Pyraflufen Ethyl	130	99.6	P/P	30 - 147
2443920	Pyridaben	97.3	123	P/P	15 - 195
2443920	Pyriproxyfen	69.1	81.7	P/P	31 - 218
2443920	Simazine	88.7	91.3	P/P	45 - 139
2443920	Stirophos	50.3	40.9	P/P	10 - 134
2443920	Sulfentrazone	73.5	69.0	P/P	53 - 186
2443920	Tebuconazole	79.1	114	P/P	10 - 133
2443920	Terbufos	141	141	P/P	65 - 151
2443920	Terbutylazine	82.4	90.3	P/P	62 - 117
2443920	Tetradecachloro-m-terphenyl	124	153	P/P	10 - 260
2443920	Thiobencarb	103	90.2	P/P	48 - 122
2443920	Tri-o-cresyl Phosphate	101	123	P/P	32 - 151
2443920	Triadimefon	76.2	84.8	P/P	46 - 124
2443920	Tris(1-chloro-2-propyl) phosphate (TCPP)	127	151	P/P	51 - 154
2443920	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	93.2	101	P/P	59 - 147
2443920	Tris(2-chloroethyl) phosphate (TCEP)	102	128	P/P	65 - 156

Reference Method: EPA 8276

Batch ID: P435920

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443209	Chlordane	73.9	81.0	P/P	43 - 123
2443209	Toxaphene	71.7	85.1	P/P	27 - 156

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P436051

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2442904	2,4-D	97.0	100	P/P	40 - 150
2442904	2,4,5-T	94.2	100	P/P	40 - 150
2442904	Acetaminophen	72.3	73.1	P/P	30 - 150
2442904	Afidopyropen	74.9	84.8	P/P	30 - 150
2442904	Carbamazepine	61.7	66.8	P/P	40 - 150
2442904	Clothianidin	75.9	80.9	P/P	40 - 150
2442904	Dinotefuran	79.1	91.4	P/P	40 - 150
2442904	Diuron	63.3	66.3	P/P	40 - 150
2442904	Fenuron	55.8	60.2	P/P	40 - 150
2442904	Fluridone	79.6	80.7	P/P	40 - 150
2442904	Hydrocodone	76.3	81.4	P/P	40 - 150
2442904	Ibuprofen	54.7	58.3	P/P	40 - 150
2442904	Imazapyr	84.5	86.1	P/P	40 - 150
2442904	Imidacloprid	110	117	P/P	40 - 150
2442904	Linuron	80.4	71.0	P/P	40 - 150
2442904	Mandestrobin	92.7	97.7	P/P	40 - 150
2442904	MCPP	89.2	98.2	P/P	40 - 150
2442904	Naproxen	75.8	71.0	P/P	40 - 150
2442904	Primidone	75.2	79.1	P/P	40 - 150
2442904	Pyraclostrobin	68.6	94.6	P/P	40 - 150
2442904	Silvex	103	100	P/P	40 - 150
2442904	Thiamethoxam	88.5	90.8	P/P	40 - 150
2442904	Tolfenpyrad	54.2	66.8	P/P	30 - 150
2442904	Triclopyr	97.1	101	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P436137

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443202	3-Hydroxycarbofuran	83.1	87.1	P/P	40 - 150
2443202	Aldicarb	69.0	57.9	P/P	30 - 150
2443202	Aldicarb Sulfone	93.8	91.0	P/P	40 - 150
2443202	Aldicarb Sulfoxide	39.4	36.3	F/F	40 - 150
2443202	Carbaryl	57.6	54.4	P/P	40 - 150
2443202	Carbofuran	62.1	57.4	P/P	40 - 150
2443202	Methiocarb	59.3	47.1	P/P	40 - 150
2443202	Methomyl	68.0	65.0	P/P	40 - 150
2443202	Oxamyl	77.2	75.7	P/P	40 - 150
2443202	Propoxur	57.8	54.8	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P436195

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443120	Acesulfame K	130	137	P/P	40 - 150
2443120	AMPA	84.8	82.8	P/P	40 - 150
2443120	Endothall	98.1	94.5	P/P	40 - 150
2443120	Glufosinate	78.9	77.4	P/P	40 - 150
2443120	Glyphosate	102	118	P/P	40 - 150
2443120	Sucralose	107	96.5	P/P	40 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P436333

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443184	Organic Carbon	94.7	97.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P436143

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443348	Color (true)	0.722	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P436145

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443375	Color (true)	1.53	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436138

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443375	Turbidity	1.79	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P436192

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443262	Calcium	2.35	Spike	P	0 - 20
2443262	Iron	2.21	Spike	P	0 - 20
2443262	Magnesium	2.40	Spike	P	0 - 20
2443262	Potassium	0.123	Spike	P	0 - 20
2443262	Sodium	0.0827	Spike	P	0 - 20
2443262	Strontium	0.432	Spike	P	0 - 20
2443262	Tin	1.81	Spike	P	0 - 20
2443262	Titanium	0.540	Spike	P	0 - 20
2443262	Vanadium	0.945	Spike	P	0 - 20
2443262	Zinc	0.992	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P436192

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443262	Aluminum	1.12	Spike	P	0 - 20
2443262	Antimony	1.77	Spike	P	0 - 20
2443262	Arsenic	0.522	Spike	P	0 - 20
2443262	Barium	1.11	Spike	P	0 - 20
2443262	Beryllium	0.492	Spike	P	0 - 20
2443262	Boron	1.42	Spike	P	0 - 20
2443262	Cadmium	2.09	Spike	P	0 - 20
2443262	Chromium	0.590	Spike	P	0 - 20
2443262	Cobalt	1.17	Spike	P	0 - 20
2443262	Copper	1.79	Spike	P	0 - 20
2443262	Lead	0.966	Spike	P	0 - 20
2443262	Manganese	0.849	Spike	P	0 - 20
2443262	Molybdenum	0.771	Spike	P	0 - 20
2443262	Nickel	1.62	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P436192

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443262	Selenium	1.13	Spike	P	0 - 20
2443262	Silver	1.89	Spike	P	0 - 20
2443262	Thallium	0.882	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436323

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443359	Chloride	0.911	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436326

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443359	Sulfate	1.11	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436287

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443275	Ammonia-N	0.591	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436271

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443329	Kjeldahl Nitrogen	3.05	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436380

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441167	NO2NO3-N	1.53	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436453

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443166	NO2NO3-N	0.475	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436220

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P436220

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443361	Total-P	0.0670	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P435920

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442830	Aldrin	1.80	Spike	P	0 - 41
2442830	Alpha-BHC	14.4	Spike	P	0 - 25
2442830	Alpha-Chlordane	21.8	Spike	P	0 - 32
2442830	Beta-BHC	7.46	Spike	P	0 - 33
2442830	Beta-Cyfluthrin	2.61	Spike	P	0 - 43
2442830	Bifenthrin	1.67	Spike	P	0 - 52
2442830	Chlorothalonil	21.3	Spike	P	0 - 82
2442830	Cis-Nonachlor	17.9	Spike	P	0 - 33
2442830	Cypermethrin	5.89	Spike	P	0 - 51
2442830	Dacthal	16.1	Spike	P	0 - 27
2442830	DDD-p,p'	13.6	Spike	P	0 - 39
2442830	DDE-p,p'	19.8	Spike	P	0 - 31
2442830	DDT-p,p'	15.5	Spike	P	0 - 29
2442830	Delta-BHC	0.730	Spike	P	0 - 35
2442830	Deltamethrin	4.09	Spike	P	0 - 100
2442830	Dichlobenil	27.1	Spike	P	0 - 40
2442830	Dicofol	5.52	Spike	P	0 - 37
2442830	Dieldrin	11.1	Spike	P	0 - 27
2442830	Endosulfan I	14.9	Spike	P	0 - 23
2442830	Endosulfan II	3.47	Spike	P	0 - 34
2442830	Endosulfan Sulfate	21.9	Spike	P	0 - 36
2442830	Endrin	20.5	Spike	P	0 - 45
2442830	Endrin Aldehyde	19.9	Spike	P	0 - 76
2442830	Endrin Ketone	14.3	Spike	P	0 - 43
2442830	Esfenvalerate	2.65	Spike	P	0 - 51
2442830	Ethalfuralin	4.73	Spike	P	0 - 22
2442830	Fenpropathrin	19.6	Spike	P	0 - 49
2442830	Gamma-BHC	2.98	Spike	P	0 - 28
2442830	Gamma-Chlordane	4.51	Spike	P	0 - 40
2442830	Heptachlor	3.32	Spike	P	0 - 29
2442830	Heptachlor Epoxide	5.63	Spike	P	0 - 33
2442830	Hexachlorobenzene	15.0	Spike	P	0 - 36
2442830	Kepone	2.93	Spike	P	0 - 85
2442830	Lambda-Cyhalothrin	9.85	Spike	P	0 - 55
2442830	Methoprene	9.42	Spike	P	0 - 53
2442830	Methoxychlor	15.5	Spike	P	0 - 50
2442830	MGK-264	2.67	Spike	P	0 - 43
2442830	Mirex	5.91	Spike	P	0 - 40
2442830	Oxychlordane	20.5	Spike	P	0 - 31
2442830	Permethrin	9.32	Spike	P	0 - 50
2442830	Phenothrin	0.457	Spike	P	0 - 58
2442830	Piperonyl Butoxide	26.2	Spike	P	0 - 100
2442830	Prallethrin	8.44	Spike	P	0 - 39
2442830	Tau-Fluvalinate	4.62	Spike	P	0 - 54

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P435920

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442830	Tetramethrin	3.20	Spike	P	0 - 51
2442830	Trans-Nonachlor	1.58	Spike	P	0 - 39
2442830	Triclosan Methyl	20.7	Spike	P	0 - 31
2442830	Trifluralin	18.6	Spike	P	0 - 22
2443209	PCB-1016	5.42	Spike	P	0 - 25
2443209	PCB-1260	1.43	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P436252

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443920	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	31.6	Spike	F	0 - 30
2443920	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	25.2	Spike	P	0 - 35
2443920	Acetochlor	24.1	Spike	P	0 - 28
2443920	Alachlor	1.56	Spike	P	0 - 30
2443920	Ametryn	7.07	Spike	P	0 - 32
2443920	Atrazine	3.08	Spike	P	0 - 33
2443920	Atrazine Desethyl	0.196	Spike	P	0 - 36
2443920	Avobenzone	25.5	Spike	P	0 - 35
2443920	Azinphos Methyl	1.16	Spike	P	0 - 62
2443920	Azoxystrobin	11.8	Spike	P	0 - 39
2443920	Bromacil	18.4	Spike	P	0 - 33
2443920	Butylate	10.0	Spike	P	0 - 51
2443920	Caffeine	4.39	Spike	P	0 - 100
2443920	Carbophenothion	22.6	Spike	P	0 - 34
2443920	Carfentrazone Ethyl	27.6	Spike	P	0 - 33
2443920	Chlorfenapyr	3.25	Spike	P	0 - 28
2443920	Chlorpyrifos Ethyl	3.56	Spike	P	0 - 31
2443920	Chlorpyrifos Methyl	4.26	Spike	P	0 - 27
2443920	Coumaphos	5.63	Spike	P	0 - 62
2443920	Cyanazine	5.97	Spike	P	0 - 48
2443920	Cyprodinil	15.3	Spike	P	0 - 29
2443920	Dechlorane 602	62.9	Spike	F	0 - 60
2443920	Dechlorane 603	22.6	Spike	P	0 - 40
2443920	Dechlorane Plus	30.1	Spike	P	0 - 38
2443920	Demeton	4.08	Spike	P	0 - 33
2443920	Diazinon	3.16	Spike	P	0 - 32
2443920	Difenoconazole	13.7	Spike	P	0 - 71
2443920	Dimethenamid	28.5	Spike	P	0 - 60
2443920	Dimethomorph	8.77	Spike	P	0 - 61
2443920	Disulfoton	8.56	Spike	P	0 - 30
2443920	Dithiopyr	5.68	Spike	P	0 - 28
2443920	EPTC	1.54	Spike	P	0 - 56
2443920	Ethion	58.4	Spike	P	0 - 79
2443920	Ethoprop	9.93	Spike	P	0 - 31
2443920	Etridiazole	1.62	Spike	P	0 - 43
2443920	Fenamiphos	2.24	Spike	P	0 - 43
2443920	Fenbuconazole	22.6	Spike	P	0 - 79
2443920	Fipronil	106	Spike	F	0 - 46
2443920	Fipronil Desulfinyl	57.4	Spike	F	0 - 36

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P436252

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443920	Fipronil Sulfide	79.6	Spike	F	0 - 34
2443920	Fipronil Sulfone	51.7	Spike	F	0 - 47
2443920	Fluazifop-P-butyl	43.1	Spike	F	0 - 38
2443920	Fludioxonil	11.4	Spike	P	0 - 29
2443920	Flumioxazin	2.55	Spike	P	0 - 63
2443920	Flutolanil	50.0	Spike	F	0 - 36
2443920	Fluxapyroxad	2.23	Spike	P	0 - 65
2443920	Fonofos	12.7	Spike	P	0 - 35
2443920	Hexabromobenzene	12.8	Spike	P	0 - 41
2443920	Hexazinone	6.54	Spike	P	0 - 31
2443920	Imazalil	5.69	Spike	P	0 - 52
2443920	Iprodione	10.8	Spike	P	0 - 49
2443920	Loratadine	21.0	Spike	P	0 - 59
2443920	Malathion	23.7	Spike	P	0 - 77
2443920	Metalaxyl	9.12	Spike	P	0 - 76
2443920	Metolachlor	13.7	Spike	P	0 - 29
2443920	Metribuzin	5.12	Spike	P	0 - 51
2443920	Mevinphos	2.40	Spike	P	0 - 31
2443920	Molinate	8.21	Spike	P	0 - 39
2443920	Myclobutanil	15.7	Spike	P	0 - 34
2443920	Naled	16.2	Spike	P	0 - 37
2443920	Napropamide	7.84	Spike	P	0 - 100
2443920	Norflurazon	18.9	Spike	P	0 - 54
2443920	Octinoxate	23.6	Spike	P	0 - 35
2443920	Oxadiazon	12.2	Spike	P	0 - 34
2443920	Oxybenzone	11.1	Spike	P	0 - 35
2443920	Oxyfluorfen	9.20	Spike	P	0 - 28
2443920	Parathion Ethyl	24.3	Spike	P	0 - 31
2443920	Parathion Methyl	23.7	Spike	P	0 - 29
2443920	PBB-153	27.7	Spike	P	0 - 49
2443920	PBDE-47	41.7	Spike	F	0 - 36
2443920	PBDE-99	40.6	Spike	P	0 - 46
2443920	Pendimethalin	7.75	Spike	P	0 - 31
2443920	Pentabromotoluene	9.70	Spike	P	0 - 16
2443920	Phenytoin	66.5	Spike	P	0 - 100
2443920	Phorate	1.43	Spike	P	0 - 36
2443920	Prodiamine	17.2	Spike	P	0 - 68
2443920	Prometon	1.53	Spike	P	0 - 35
2443920	Prometryn	7.63	Spike	P	0 - 33
2443920	Pronamide	0.415	Spike	P	0 - 24
2443920	Propanil	0.0830	Spike	P	0 - 28
2443920	Propargite	36.6	Spike	P	0 - 53
2443920	Propiconazole	13.4	Spike	P	0 - 44
2443920	Pyraflufen Ethyl	26.4	Spike	P	0 - 61
2443920	Pyridaben	23.5	Spike	P	0 - 43
2443920	Pyriproxyfen	16.6	Spike	P	0 - 82
2443920	Simazine	1.74	Spike	P	0 - 29
2443920	Stirophos	20.7	Spike	P	0 - 100
2443920	Sulfentrazone	6.26	Spike	P	0 - 64
2443920	Tebuconazole	35.7	Spike	P	0 - 76
2443920	Terbufos	0.246	Spike	P	0 - 29

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P436252

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443920	Terbutylazine	9.12	Spike	P	0 - 28
2443920	Tetradecachloro-m-terphenyl	20.5	Spike	P	0 - 42
2443920	Thiobencarb	13.4	Spike	P	0 - 26
2443920	Tri-o-cresyl Phosphate	19.3	Spike	P	0 - 24
2443920	Triadimefon	10.6	Spike	P	0 - 40
2443920	Tris(1-chloro-2-propyl) phosphate (TCPP)	16.8	Spike	P	0 - 30
2443920	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	7.71	Spike	P	0 - 22
2443920	Tris(2-chloroethyl) phosphate (TCEP)	23.0	Spike	F	0 - 15

Reference Method: EPA 8276

Batch ID: P435920

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443209	Chlordane	9.22	Spike	P	0 - 28
2443209	Toxaphene	17.2	Spike	P	0 - 27

Reference Method: EPA 8321B

Batch ID: P436051

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442904	2,4-D	3.12	Spike	P	0 - 30
2442904	2,4,5-T	6.11	Spike	P	0 - 30
2442904	Acetaminophen	1.11	Spike	P	0 - 30
2442904	Acetamiprid	4.12	Spike	P	0 - 30
2442904	Afidopyropen	12.5	Spike	P	0 - 30
2442904	Bentazon	11.9	Spike	P	0 - 30
2442904	Benzovindiflupyr	17.6	Spike	P	0 - 30
2442904	Carbamazepine	7.88	Spike	P	0 - 30
2442904	Clothianidin	6.10	Spike	P	0 - 30
2442904	Dinotefuran	7.96	Spike	P	0 - 30
2442904	Diuron	3.68	Spike	P	0 - 30
2442904	Fenuron	7.67	Spike	P	0 - 30
2442904	Fluridone	1.42	Spike	P	0 - 30
2442904	Hydrocodone	6.42	Spike	P	0 - 30
2442904	Ibuprofen	6.42	Spike	P	0 - 30
2442904	Imazapyr	1.88	Spike	P	0 - 30
2442904	Imidacloprid	4.83	Spike	P	0 - 30
2442904	Linuron	12.5	Spike	P	0 - 30
2442904	Mandestrobin	5.25	Spike	P	0 - 30
2442904	MCPP	9.62	Spike	P	0 - 30
2442904	Naproxen	6.49	Spike	P	0 - 30
2442904	Primidone	5.05	Spike	P	0 - 30
2442904	Pyraclostrobin	17.4	Spike	P	0 - 30
2442904	Silvex	2.89	Spike	P	0 - 30
2442904	Thiamethoxam	2.32	Spike	P	0 - 30
2442904	Tolfenpyrad	20.8	Spike	P	0 - 30
2442904	Triclopyr	4.32	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P436137

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443202	3-Hydroxycarbofuran	4.73	Spike	P	0 - 30
2443202	Aldicarb	17.5	Spike	P	0 - 30
2443202	Aldicarb Sulfone	3.09	Spike	P	0 - 30
2443202	Aldicarb Sulfoxide	8.14	Spike	P	0 - 30
2443202	Carbaryl	5.72	Spike	P	0 - 30
2443202	Carbofuran	7.74	Spike	P	0 - 30
2443202	Methiocarb	22.8	Spike	P	0 - 30
2443202	Methomyl	4.52	Spike	P	0 - 30
2443202	Oxamyl	1.92	Spike	P	0 - 30
2443202	Propoxur	5.26	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P436195

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443120	Acesulfame K	5.11	Spike	P	0 - 30
2443120	AMPA	2.10	Spike	P	0 - 30
2443120	Endothall	3.74	Spike	P	0 - 30
2443120	Glufosinate	1.83	Spike	P	0 - 30
2443120	Glyphosate	14.9	Spike	P	0 - 30
2443120	Sucralose	9.69	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P436470

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443359	Total Alkalinity	0.0706	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P436766

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443373	TDS	11.4	Sample	F	0 - 10

Reference Method: SM 2540 D-2015
Batch ID: P436583

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443373	TSS	6.56	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P436359

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443359	Fluoride	0.480	Spike	P	0 - 1.9

Quality Assurance Report Precision

Reference Method: SM 5310 B-2011
Batch ID: P436333

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443184	Organic Carbon	2.72	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2443354
Field Sample ID: G5SE0091

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	30.1	P	30 - 160

Lab Sample ID: 2443355
Field Sample ID: G5SE0091

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	66.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	111	P	30 - 160
EPA 8321B	Carbamazepine-d10	41.8	P	30 - 160
EPA 8321B	Diuron-d6	33.5	P	30 - 160
EPA 8321B	Endothall-d6	119	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	48.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	56.3	P	30 - 160
EPA 8321B	Primidone-d5	93.1	P	30 - 160
EPA 8321B	Sucralose-d6	40.9	P	30 - 160

Lab Sample ID: 2443356
Field Sample ID: G5SE0091

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	91.9	P	37 - 129
EPA 8270E	Decachlorobiphenyl	77.5	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	56.1	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	57.1	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	68.8	P	28 - 102
EPA 8276	PCNB	93.8	P	49 - 115

Lab Sample ID: 2443357
Field Sample ID: G5SE0091

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	69.5	P	20 - 200
EPA 8270E	Simazine-d10	88.0	P	58 - 137
EPA 8270E	Terbufos-d10	101	P	50 - 134
EPA 8270E	Terphenyl-d14	90.2	P	44 - 134

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A122011

Included Lab Sample IDs: 2443346, 2443348

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

Reference Method: DEP SOP: NU-094-1

Run ID: A122013

Included Lab Sample IDs: 2443346, 2443348

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.5	99.9	P/P	90 - 110
Color (true)	99.7	99.5	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A122048

Included Lab Sample IDs: 2443347, 2443349

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.9	99.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A122058

Included Lab Sample IDs: 2443355

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	129	148	P/P	60 - 160
Sucralose	102	110	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A122059

Included Lab Sample IDs: 2443355

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	98.2	103	P/P	60 - 160
Endothall	83.0	74.7	P/P	60 - 160
Glufosinate	88.7	80.3	P/P	60 - 160
Glyphosate	87.3	81.6	P/P	60 - 160

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A122061

Included Lab Sample IDs: 2443358

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	97.9	98.3	P/P	90 - 110
Antimony	94.4	94.0	P/P	90 - 110
Arsenic	101	101	P/P	90 - 110
Barium	99.5	99.3	P/P	90 - 110
Beryllium	99.0	98.9	P/P	90 - 110
Boron	92.6	91.8	P/P	90 - 110
Cadmium	99.3	99.5	P/P	90 - 110
Chromium	98.5	100	P/P	90 - 110
Copper	97.8	99.3	P/P	90 - 110
Lead	96.4	95.8	P/P	90 - 110
Manganese	95.2	95.1	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A122061

Included Lab Sample IDs: 2443358

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Molybdenum	98.3	98.2	P/P	90 - 110
Nickel	98.9	100	P/P	90 - 110
Selenium	101	99.6	P/P	90 - 110
Silver	99.0	98.3	P/P	90 - 110
Thallium	97.9	97.1	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A122062

Included Lab Sample IDs: 2443355

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	96.4	86.0	P/P	50 - 150

Reference Method: EPA 8321B

Run ID: A122063

Included Lab Sample IDs: 2443355

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4,5-T	97.5	114	P/P	50 - 150
Acetaminophen	111	109	P/P	60 - 160
Acetamiprid	109	115	P/P	50 - 150
Afidopyropen	120	114	P/P	50 - 150
Bentazon	137	94.3	P/P	50 - 160
Benzovindiflupyr	127	133	P/P	50 - 150
Carbamazepine	101	103	P/P	60 - 150
Clothianidin	100	102	P/P	60 - 150
Dinotefuran	108	106	P/P	50 - 150
Diuron	113	115	P/P	60 - 160
Fenuron	106	102	P/P	60 - 150
Fluridone	154	117	P/P	60 - 160
Hydrocodone	120	127	P/P	60 - 150
Ibuprofen	129	67.1	P/P	50 - 160
Imazapyr	101	103	P/P	50 - 150
Imidacloprid	97.2	98.3	P/P	60 - 150
Linuron	141	148	P/P	60 - 150
Mandestrobin	125	124	P/P	50 - 150
MCPP	104	104	P/P	50 - 150
Naproxen	67.2	71.8	P/P	50 - 160
Primidone	94.7	98.7	P/P	60 - 150
Pyraclostrobin	105	110	P/P	60 - 150
Silvex	109	114	P/P	50 - 150
Thiamethoxam	108	114	P/P	50 - 150
Tolfenpyrad	105	113	P/P	60 - 150
Triclopyr	96.5	117	P/P	50 - 150

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A122066

Included Lab Sample IDs: 2443346, 2443348

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A122066

Included Lab Sample IDs: 2443346, 2443348

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

Reference Method: SM 5310 B-2011

Run ID: A122075

Included Lab Sample IDs: 2443347, 2443349

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.8	97.2	P/P	90 - 110
Organic Carbon	96.2	95.4	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A122079

Included Lab Sample IDs: 2443346, 2443348

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A122094

Included Lab Sample IDs: 2443347

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	97.5	97.5	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A122103

Included Lab Sample IDs: 2443358

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A122116

Included Lab Sample IDs: 2443347, 2443349

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A122128

Included Lab Sample IDs: 2443347

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	106	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A122130

Included Lab Sample IDs: 2443349

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

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-2011

Run ID: A122131

Included Lab Sample IDs: 2443346, 2443348

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.6	94.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A122139

Included Lab Sample IDs: 2443349

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	96.7	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A122157

Included Lab Sample IDs: 2443358

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	102	99.6	P/P	90 - 110
Iron	99.5	98.6	P/P	90 - 110
Magnesium	99.7	99.2	P/P	90 - 110
Potassium	98.7	98.7	P/P	90 - 110
Sodium	103	101	P/P	90 - 110
Strontium	106	109	P/P	90 - 110
Tin	105	104	P/P	90 - 110
Titanium	104	105	P/P	90 - 110
Vanadium	104	106	P/P	90 - 110
Zinc	106	106	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A122163

Included Lab Sample IDs: 2443356

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	97.1		P	80 - 120
Toxaphene	91.0		P	80 - 120

Reference Method: EPA 8270E

Run ID: A122178

Included Lab Sample IDs: 2443357

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	86.6		P	80 - 120
Alachlor	88.6		P	80 - 120
Ametryn	98.8		P	80 - 120
Atrazine Desethyl	97.1		P	80 - 120
Azinphos Methyl	88.5		P	80 - 120
Azoxystrobin	98.1		P	80 - 120
Bromacil	101		P	80 - 120
Butylate	102		P	80 - 120
Carbophenothion	96.5		P	80 - 120
Carfentrazone Ethyl	104		P	80 - 120
Chlorfenapyr	83.1		P	80 - 120
Chlorpyrifos Ethyl	86.0		P	80 - 120
Chlorpyrifos Methyl	99.0		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122178
Included Lab Sample IDs: 2443357

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Coumaphos	93.9		P	80 - 120
Cyanazine	96.8		P	80 - 120
Cyprodinil	107		P	80 - 120
Demeton	100		P	80 - 120
Diazinon	102		P	80 - 120
Difenoconazole	80.0*		F	80 - 120
Dimethenamid	99.2		P	80 - 120
Dimethomorph	97.2		P	80 - 120
Disulfoton	100		P	80 - 120
Dithiopyr	97.3		P	80 - 120
EPTC	99.7		P	80 - 120
Ethion	89.8		P	80 - 120
Ethoprop	98.2		P	80 - 120
Etridiazole	97.8		P	80 - 120
Fenamiphos	88.6		P	80 - 120
Fenbuconazole	87.2		P	80 - 120
Fipronil	89.3		P	80 - 120
Fipronil Desulfinyl	99.5		P	80 - 120
Fipronil Sulfide	106		P	80 - 120
Fipronil Sulfone	101		P	80 - 120
Fluazifop-P-butyl	107		P	80 - 120
Fludioxonil	104		P	80 - 120
Flumioxazin	97.1		P	80 - 120
Flutolanil	102		P	80 - 120
Fluxapyroxad	102		P	80 - 120
Fonofos	95.4		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	116		P	80 - 120
Iprodione	90.0		P	80 - 120
Loratadine	85.7		P	80 - 120
Malathion	80.2		P	80 - 120
Metaxyl	91.0		P	80 - 120
Metolachlor	101		P	80 - 120
Metribuzin	104		P	80 - 120
Mevinphos	98.4		P	80 - 120
Molinate	85.3		P	80 - 120
Myclobutanil	93.6		P	80 - 120
Naled	109		P	80 - 120
Napropamide	102		P	80 - 120
Norflurazon	106		P	80 - 120
Oxadiazon	103		P	80 - 120
Oxyfluorfen	93.8		P	80 - 120
Parathion Ethyl	95.8		P	80 - 120
Parathion Methyl	82.4		P	80 - 120
Pendimethalin	97.6		P	80 - 120
Phenytoin	98.5		P	80 - 120
Proclamate	92.8		P	80 - 120
Prometon	109		P	80 - 120
Prometryn	99.1		P	80 - 120
Pronamide	100		P	80 - 120
Propanil	114		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122178
Included Lab Sample IDs: 2443357

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Propargite	96.9		P	80 - 120
Propiconazole	88.5		P	80 - 120
Pyraflufen Ethyl	103		P	80 - 120
Pyridaben	103		P	80 - 120
Pyriproxyfen	103		P	80 - 120
Simazine	88.3		P	80 - 120
Stirophos	82.6		P	80 - 120
Sulfentrazone	105		P	80 - 120
Tebuconazole	102		P	80 - 120
Terbufos	101		P	80 - 120
Terbuthylazine	88.0		P	80 - 120
Thiobencarb	103		P	80 - 120
Triadimefon	101		P	80 - 120

Reference Method: EPA 8270E
Run ID: A122187
Included Lab Sample IDs: 2443356

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	97.6		P	80 - 120
PCB-1260	95.2		P	80 - 120

Reference Method: EPA 8270E
Run ID: A122217
Included Lab Sample IDs: 2443357

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Caffeine	106		P	80 - 120
Phorate	107		P	80 - 120

Reference Method: EPA 8270E
Run ID: A122218
Included Lab Sample IDs: 2443357

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

Reference Method: EPA 8270E
Run ID: A122245
Included Lab Sample IDs: 2443357

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	96.8		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	91.4		P	80 - 120
Avobenzone	94.0		P	80 - 120
Dechlorane 602	96.9		P	80 - 120
Dechlorane 603	93.2		P	80 - 120
Dechlorane Plus	94.0		P	80 - 120
Hexabromobenzene	92.3		P	80 - 120
Octinoxate	92.5		P	80 - 120
Oxybenzone	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122245
Included Lab Sample IDs: 2443357

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PBB-153	91.8		P	80 - 120
PBDE-47	93.6		P	80 - 120
PBDE-99	95.6		P	80 - 120
Pentabromotoluene	104		P	80 - 120
Tetradecachloro-m-terphenyl	90.8		P	80 - 120
Tri-o-cresyl Phosphate	98.5		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	92.9		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	98.7		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	93.2		P	80 - 120

Reference Method: EPA 8270E
Run ID: A122254
Included Lab Sample IDs: 2443356

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	99.4		P	80 - 120
Alpha-BHC	94.9		P	80 - 120
Alpha-Chlordane	105		P	80 - 120
Beta-BHC	95.2		P	80 - 120
Beta-Cyfluthrin	90.0		P	80 - 120
Bifenthrin	88.6		P	80 - 120
Chlorothalonil	85.0		P	80 - 120
Cis-Nonachlor	104		P	80 - 120
Cypermethrin	92.4		P	80 - 120
Dacthal	97.4		P	80 - 120
DDD-p,p'	97.1		P	80 - 120
DDE-p,p'	102		P	80 - 120
DDT-p,p'	91.5		P	80 - 120
Delta-BHC	93.9		P	80 - 120
Deltamethrin	88.8		P	80 - 120
Dichlobenil	96.8		P	80 - 120
Dicofol	98.2		P	80 - 120
Dieldrin	95.9		P	80 - 120
Endosulfan I	88.4		P	80 - 120
Endosulfan II	98.7		P	80 - 120
Endosulfan Sulfate	110		P	80 - 120
Endrin	99.5		P	80 - 120
Endrin Aldehyde	109		P	80 - 120
Endrin Ketone	96.7		P	80 - 120
Esfenvalerate	82.4		P	80 - 120
Ethalfuralin	95.0		P	80 - 120
Fenpropathrin	92.3		P	80 - 120
Gamma-BHC	99.6		P	80 - 120
Gamma-Chlordane	106		P	80 - 120
Heptachlor	88.3		P	80 - 120
Heptachlor Epoxide	94.5		P	80 - 120
Hexachlorobenzene	85.7		P	80 - 120
Kepone	96.5		P	80 - 120
Lambda-Cyhalothrin	87.4		P	80 - 120
Methoprene	97.6		P	80 - 120
Methoxychlor	88.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122254
Included Lab Sample IDs: 2443356

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
MGK-264	96.3		P	80 - 120
Mirex	108		P	80 - 120
Oxychlordane	97.3		P	80 - 120
Permethrin	88.5		P	80 - 120
Phenothrin	88.6		P	80 - 120
Piperonyl Butoxide	80.0		P	80 - 120
Prallethrin	94.0		P	80 - 120
Tau-Fluvalinate	83.1		P	80 - 120
Tetramethrin	81.6		P	80 - 120
Trans-Nonachlor	98.5		P	80 - 120
Triclosan Methyl	92.6		P	80 - 120
Trifluralin	98.7		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			Precision SMP	MS
			LCS				
DEP SOP: NU-094-1	Color (true)	100				0.722	
	Color (true)	100				1.53	
	Turbidity	105				1.79	
EPA 180.1 Rev. 2.0	Calcium	103	96.5	101	101		2.35
EPA 200.7 Rev. 4.4	Iron	102	96.7	99.7	101		2.21
	Magnesium	104	97.3	101	101		2.40
	Potassium	96.9	94.5	94.7	97.7		0.123
	Sodium	103	102	103			0.0827
	Strontium	103	101	102	105		0.432
	Tin	101	100	102	104		1.81
	Titanium	98.6	100	101	101		0.540
	Vanadium	101	102	103	102		0.945
	Zinc	101	103	102	102		0.992
	Aluminum	94.2	95.7	96.8	94.7		1.12
	Antimony	92.4	94.0	95.6	93.1		1.77
	Arsenic	95.4	97.7	98.2	96.2		0.522
	Barium	97.6	99.6	101	98.3		1.11
	Beryllium	95.4	92.0	91.4	98.2		0.492
	Boron	95.5	98.6	97.0	96.9		1.42
EPA 200.8 Rev. 5.4	Cadmium	94.0	95.6	97.6	97.2		2.09
	Chromium	91.5	94.0	94.6	95.8		0.590
	Cobalt	93.9	95.9	97.1	96.3		1.17
	Copper	94.5	95.4	97.1	97.3		1.79
	Lead	92.0	93.0	93.9	94.2		0.966
	Manganese	91.0	92.4	93.5	91.7		0.849
	Molybdenum	93.4	95.6	96.4	95.9		0.771
	Nickel	93.9	95.5	97.1	95.2		1.62
	Selenium	96.8	97.6	98.7	95.8		1.13
	Silver	105	103	105	104		1.89
	Thallium	96.4	98.8	99.6	99.1		0.882
EPA 300.0 Rev. 2.1	Chloride	104	104	105		0.911	
	Sulfate	104	103	105		1.11	
	Ammonia-N	100	99.6	98.6			0.591
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105					3.05
EPA 353.2 Rev. 2.0	NO2NO3-N	98.0	97.0	98.5			1.53
	NO2NO3-N	101	101	102			0.475
EPA 365.1 Rev. 2.0	Total-P	108	112	112			0.0670
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntyphenol (UV-328)	75.1	61.7	84.8			31.6
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	107	101	130			25.2
	Acetochlor	90.1	96.1	75.4			24.1
	Alachlor	87.9	73.2	74.4			1.56
	Aldrin	50.4	44.1	44.9			1.80
	Alpha-BHC	86.0	85.7	73.0			14.4
	Alpha-Chlordane	92.1	107	86.2			21.8
	Ametryn	138	137	127			7.07
	Atrazine	99.6					3.08
	Atrazine Desethyl	110	77.9	77.7			0.196
	Avobenzone	119	110	142			25.5
	Azinphos Methyl	88.7	75.1	76.0			1.16
	Azoxystrobin	103	84.8	95.9			11.8
	Beta-BHC	109	124	115			7.46

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Beta-Cyfluthrin	70.0	69.6	67.8			2.61
	Bifenthrin	49.5	42.7	43.4			1.67
	Bromacil	113	110	91.2			18.4
	Butylate	69.0	72.3	79.9			10.0
	Caffeine	75.9	92.6	96.8			4.39
	Carbophenothion	95.1	104	82.6			22.6
	Carfentrazone Ethyl	110	119	90.4			27.6
	Chlorfenapyr	98.0	106	102			3.25
	Chlorothalonil	124	105	130			21.3
	Chlorpyrifos Ethyl	100	90.4	93.6			3.56
	Chlorpyrifos Methyl	102	128	123			4.26
	Cis-Nonachlor	84.7	75.4	90.2			17.9
	Coumaphos	92.3	97.7	92.3			5.63
	Cyanazine	232	228	242			5.97
	Cypermethrin	47.4	44.8	47.6			5.89
	Cyprodinil	117	135	116			15.3
	Dacthal	86.6	78.5	93.1			16.1
	DDD-p,p'	59.0	55.2	63.2			13.6
	DDE-p,p'	51.5	50.3	61.3			19.8
	DDT-p,p'	63.3	59.5	69.5			15.5
	Dechlorane 602	80.1	54.1	104			62.9
	Dechlorane 603	111	93.4	117			22.6
	Dechlorane Plus	94.8	81.5	110			30.1
	Delta-BHC	142	153	154			0.730
	Deltamethrin	81.7	88.3	91.9			4.09
	Demeton	95.3	99.3	95.3			4.08
	Diazinon	112	128	124			3.16
	Dichlobenil	78.7	66.7	87.6			27.1
	Dicofol	77.0	76.5	80.8			5.52
	Dieldrin	59.5	55.9	62.9			11.1
	Difenoconazole	79.0	80.3	70.0			13.7
	Dimethenamid	97.8	85.6	114			28.5
	Dimethomorph	225	218	198			8.77
	Disulfoton	123	116	127			8.56
	Dithiopyr	97.7	106	112			5.68
	Endosulfan I	66.7	59.3	69.3			14.9
	Endosulfan II	68.6	76.5	79.2			3.47
	Endosulfan Sulfate	93.4	82.9	103			21.9
	Endrin	55.5	56.7	69.6			20.5
	Endrin Aldehyde	82.4	71.1	86.8			19.9
	Endrin Ketone	91.6	88.3	102			14.3
	EPTC	58.5	69.7	70.8			1.54
	Esfenvalerate	80.6	79.3	81.4			2.65
	Ethalfuralin	76.2	54.1	57.2			4.73
	Ethion	53.8	47.8	87.2			58.4
	Ethoprop	103	113	102			9.93
	Etridiazole	77.0	95.1	93.6			1.62
	Fenamiphos	97.6	63.7	62.3			2.24
	Fenbuconazole	66.1	69.3	86.9			22.6
	Fenpropathrin	60.6	54.9	66.8			19.6
	Fipronil	86.1	97.1	30.0			106
	Fipronil Desulfinyl	115	140	77.4			57.4
	Fipronil Sulfide	104	139	59.7			79.6
	Fipronil Sulfone	87.1	95.4	56.2			51.7

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Fluazifop-P-butyl	108	115	74.2			43.1
	Fludioxonil	91.6	104	92.9			11.4
	Flumioxazin	126	102	104			2.55
	Flutolanil	88.0	111	66.3			50.0
	Fluxapyroxad	95.2	95.6	97.8			2.23
	Fonofos	108	125	110			12.7
	Gamma-BHC	109	100	97.0			2.98
	Gamma-Chlordane	99.4	94.3	99.0			4.51
	Heptachlor	57.3	48.4	50.0			3.32
	Heptachlor Epoxide	75.7	70.6	74.7			5.63
	Hexabromobenzene	120	108	123			12.8
	Hexachlorobenzene	64.6	60.9	70.8			15.0
	Hexazinone	105	99.2	106			6.54
	Imazalil	75.6	90.2	95.5			5.69
	Iprodione	109	89.8	99.9			10.8
	Kepone	88.8	98.5	101			2.93
	Lambda-Cyhalothrin	37.2	37.1	33.7			9.85
	Loratadine	170	114	141			21.0
	Malathion	118	91.6	116			23.7
	Metalaxyl	113	117	98.5			9.12
	Methoprene	45.0	35.4	38.9			9.42
	Methoxychlor	78.7	75.8	88.5			15.5
	Metolachlor	105	83.2	98.5			13.7
	Metribuzin	115	109	115			5.12
	Mevinphos	114	127	130			2.40
	MGK-264	99.0	98.4	101			2.67
	Mirex	50.4	55.7	52.5			5.91
	Molinate	61.5	67.7	73.5			8.21
	Myclobutanil	108	107	125			15.7
	Naled	55.3	73.9	62.8			16.2
	Napropamide	90.5	80.2	86.7			7.84
	Norflurazon	110	82.5	110			18.9
	Octinoxate	145	128	163			23.6
	Oxadiazon	91.0	95.5	84.5			12.2
	Oxybenzone	123	113	126			11.1
	Oxychlordane	64.7	51.5	63.2			20.5
	Oxyfluorfen	125	115	127			9.20
	Parathion Ethyl	107	109	85.1			24.3
	Parathion Methyl	132	140	178			23.7
	PBB-153	108	90.1	119			27.7
	PBDE-47	102	79.6	122			41.7
	PBDE-99	94.9	74.8	113			40.6
	PCB-1016	69.2	71.0	74.9			5.42
	PCB-1260	76.3	71.2	72.2			1.43
	Pendimethalin	116	124	114			7.75
	Pentabromotoluene	115	105	115			9.70
	Permethrin	62.9	57.9	63.6			9.32
	Phenothrin	53.3	49.6	49.3			0.457
	Phenytoln	53.8	149	74.8			66.5
	Phorate	122	134	136			1.43
	Piperonyl Butoxide	91.1	76.2	99.2			26.2
	Prallethrin	63.1	72.1	66.2			8.44
	Prodiamine	50.7	46.0	54.7			17.2
	Prometon	121	89.2	86.8			1.53

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Prometryn	127	110	118			7.63
	Pronamide	110	100	99.7			0.415
	Propanil	127	130	130			0.0830
	Propargite	74.3	101	69.9			36.6
	Propiconazole	106	114	131			13.4
	Pyraflufen Ethyl	132	99.6	130			26.4
	Pyridaben	88.2	123	97.3			23.5
	Pyriproxyfen	76.4	81.7	69.1			16.6
	Simazine	85.9	91.3	88.7			1.74
	Stirophos	62.6	40.9	50.3			20.7
	Sulfentrazone	83.9	73.5	69.0			6.26
	Tau-Fluvalinate	67.6	69.4	72.7			4.62
	Tebuconazole	68.8	79.1	114			35.7
	Terbufos	127	141	141			0.246
	Terbutylazine	86.9	82.4	90.3			9.12
	Tetradecachloro-m-terphenyl	109	124	153			20.5
	Tetramethrin	72.4	69.4	71.7			3.20
	Thiobencarb	112	103	90.2			13.4
	Trans-Nonachlor	64.1	65.0	66.0			1.58
	Tri-o-cresyl Phosphate	123	101	123			19.3
	Triadimefon	100	76.2	84.8			10.6
	Triclosan Methyl	67.1	57.6	70.9			20.7
	Trifluralin	63.5	50.4	62.4			18.6
	Tris(1-chloro-2-propyl) phosphate (TCPP)	140	127	151			16.8
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	106	93.2	101			7.71
	Tris(2-chloroethyl) phosphate (TCEP)	109	102	128			23.0
EPA 8276	Chlordane	90.2	73.9	81.0			9.22
	Toxaphene	85.9	71.7	85.1			17.2
EPA 8321B	2,4-D	89.1	97.0	100			3.12
	2,4,5-T	94.6	94.2	100			6.11
	3-Hydroxycarbofuran	72.3	83.1	87.1			4.73
	Acesulfame K	106	130	137			5.11
	Acetaminophen	77.3	72.3	73.1			1.11
	Acetamiprid	83.5					4.12
	Afidopyropen	77.9	74.9	84.8			12.5
	Aldicarb	66.5	69.0	57.9			17.5
	Aldicarb Sulfone	88.6	93.8	91.0			3.09
	Aldicarb Sulfoxide	100	39.4	36.3			8.14
	AMPA	93.4	84.8	82.8			2.10
	Bentazon	91.8					11.9
	Benzovindiflupyr	78.7					17.6
	Carbamazepine	76.3	61.7	66.8			7.88
	Carbaryl	73.5	57.6	54.4			5.72
	Carbofuran	85.9	62.1	57.4			7.74
	Clothianidin	84.6	75.9	80.9			6.10
	Dinotefuran	90.8	79.1	91.4			7.96
	Diuron	81.3	63.3	66.3			3.68
	Endothall	90.0	98.1	94.5			3.74
	Fenuron	79.0	55.8	60.2			7.67
	Fluridone	101	79.6	80.7			1.42
	Glufosinate	78.2	78.9	77.4			1.83

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 8321B	Glyphosate	73.9	102	118		
	Hydrocodone	97.2	76.3	81.4		
	Ibuprofen	76.6	54.7	58.3		
	Imazapyr	84.1	84.5	86.1		
	Imidacloprid	78.2	110	117		
	Linuron	85.9	80.4	71.0		
	Mandestrobin	88.4	92.7	97.7		
	MCPP	91.8	89.2	98.2		
	Methiocarb	61.3	59.3	47.1		
	Methomyl	74.7	68.0	65.0		
	Naproxen	55.2	75.8	71.0		
	Oxamyl	81.4	77.2	75.7		
	Primidone	82.7	75.2	79.1		
	Propoxur	80.6	57.8	54.8		
	Pyraclostrobin	73.2	68.6	94.6		
	Silvex	77.7	103	100		
	Sucralose	91.3	107	96.5		
	Thiamethoxam	90.7	88.5	90.8		
	Tolfenpyrad	49.8	54.2	66.8		
	Triclopyr	101	97.1	101		
SM 2320 B-2011	Total Alkalinity	97.7				0.0706
SM 2540 C-2015	TDS	106				11.4
SM 2540 D-2015	TSS	108				6.56
SM 4500-F- C-2011	Fluoride	98.8				
SM 5310 B-2011	Organic Carbon	95.0	94.7	97.6		

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2443346, 2443348
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2443346, 2443348
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2443358
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2443358
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2443346, 2443348
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2443346, 2443348
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2443347, 2443349
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2443347, 2443349
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2443347, 2443349
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2443347, 2443349
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2443357
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2443356
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2443357
EPA 8270E	PCBs in water matrices by GC/MS/MS	2443356
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2443356
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2443354
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2443355
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2443346, 2443348
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2443358
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2443346, 2443348
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2443346, 2443348

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2443346, 2443348
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2443347, 2443349

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	10/06/2023			10/06/2023 15:44	Alexis Price	2443346
	10/06/2023			10/06/2023 15:55	Alexis Price	2443348
EPA 180.1 Rev. 2.0	10/06/2023			10/06/2023 14:31	Khloe J Berg	2443346
	10/06/2023			10/06/2023 14:32	Khloe J Berg	2443348
EPA 200.7 Rev. 4.4	10/06/2023	10/09/2023 15:10	George D Taylor	10/11/2023 21:23	McKinley C Carter	2443358
EPA 200.8 Rev. 5.4	10/06/2023	10/09/2023 15:10	George D Taylor	10/10/2023 17:41	Conrad Hartmann	2443358
	10/06/2023	10/09/2023 15:10	George D Taylor	10/11/2023 15:27	Conrad Hartmann	2443358
EPA 300.0 Rev. 2.1	10/06/2023			10/10/2023 11:25	James L Waggeberby	2443346
	10/06/2023			10/10/2023 11:40	James L Waggeberby	2443348
EPA 350.1 Rev. 2.0	10/06/2023			10/10/2023 14:58	Ping Hua	2443347
	10/06/2023			10/10/2023 14:59	Ping Hua	2443349
EPA 351.2 Rev. 2.0	10/06/2023	10/12/2023 09:10	Ping Hua	10/12/2023 16:52	Ping Hua	2443347
	10/06/2023	10/12/2023 09:10	Ping Hua	10/13/2023 12:19	Samantha L Bates	2443349
EPA 353.2 Rev. 2.0	10/06/2023			10/11/2023 14:31	Fadila Guebre	2443347
	10/06/2023			10/12/2023 13:05	Anna M. Plaviak	2443349
EPA 365.1 Rev. 2.0	10/06/2023	10/10/2023 15:15	Adam P Silver	10/11/2023 16:49	Simonne.V. Calhoun	2443347
	10/06/2023	10/10/2023 15:15	Adam P Silver	10/11/2023 16:50	Simonne.V. Calhoun	2443349
EPA 8270E	10/06/2023	10/10/2023 08:00	Fe-Val Siddell	10/12/2023 06:07	Julie Wi	2443356
	10/06/2023	10/10/2023 08:00	Fe-Val Siddell	10/18/2023 02:55	Julie Wi	2443356
	10/06/2023	10/11/2023 08:30	Rasheda Ghaffari	10/13/2023 22:01	Vandana T. Nagar	2443357
	10/06/2023	10/11/2023 08:30	Rasheda Ghaffari	10/16/2023 23:16	Arthur Maknenko	2443357
	10/06/2023	10/11/2023 08:30	Rasheda Ghaffari	10/17/2023 15:38	Vandana T. Nagar	2443357
	10/06/2023	10/11/2023 08:30	Rasheda Ghaffari	10/18/2023 11:21	Vandana T. Nagar	2443357
EPA 8276	10/06/2023	10/10/2023 08:00	Fe-Val Siddell	10/12/2023 15:39	Lipi Saha	2443356
EPA 8321B	10/06/2023	10/06/2023 13:00	Hoor Shaik	10/10/2023 03:01	Juyoung Kim	2443355
	10/06/2023	10/06/2023 13:00	Hoor Shaik	10/10/2023 17:34	Juyoung Kim	2443355
	10/06/2023	10/10/2023 06:00	Hana Lee	10/10/2023 15:52	Tae K Lee	2443355
	10/06/2023	10/10/2023 06:00	Hana Lee	10/10/2023 22:55	Tae K Lee	2443355
	10/06/2023	10/10/2023 09:00	Hoor Shaik	10/10/2023 20:32	Juyoung Kim	2443354
SM 2320 B-2011	10/06/2023			10/13/2023 01:06	Chandler E Cox	2443346
	10/06/2023			10/13/2023 01:19	Chandler E Cox	2443348
SM 2340 B-2011	10/06/2023			10/11/2023 21:23	McKinley C Carter	2443358
SM 2540 C-2015	10/06/2023			10/11/2023 15:58	Yijie Li	2443346, 2443348
SM 2540 D-2015	10/06/2023			10/11/2023 15:58	Yijie Li	2443346, 2443348
SM 4500-F- C-2011	10/06/2023			10/10/2023 00:38	Dale L. Simmons	2443346
	10/06/2023			10/10/2023 00:54	Dale L. Simmons	2443348
SM 5310 B-2011	10/06/2023			10/10/2023 16:41	Elise M. Gillis	2443347
	10/06/2023			10/10/2023 21:47	Elise M. Gillis	2443349