

Chemical Analysis Report

NE-DIST-2023-10-25-01

Florida DEP Laboratory
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DOH Accreditation E31780

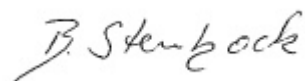
Event Description: **Suwannee East 2023**
Request ID: **RQ-2023-10-23-16**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Suite 100
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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 15-NOV-2023 13:01



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: OLUSTEE CREEK AT SR 18

Collection Date/Time: 10/24/2023 10:20

Field ID: 21030071

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2447110	EPA 8321B	Aldicarb	0.020	U	ug/L	P436913	MS
		Aldicarb Sulfone	0.0020	U	ug/L	P436913	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P436913	MS
		Carbaryl	0.0020	U	ug/L	P436913	MS
		Carbofuran	0.0020	U	ug/L	P436913	MS
		3-Hydroxycarbofuran	0.0020	U	ug/L	P436913	
		Methiocarb	0.0020	U	ug/L	P436913	
		Methomyl	0.0020	U	ug/L	P436913	MS
		Oxamyl	0.0020	U	ug/L	P436913	
		Propoxur	0.0020	U	ug/L	P436913	MS
2447111		2,4-D	0.0071	I	ug/L	P436963	
		Acesulfame K	0.10	U	ug/L	P436970	
		2,4,5-T	0.0040	U	ug/L	P436963	
		AMPA	0.10	U	ug/L	P436970	
		Acetaminophen	0.0080	U	ug/L	P436963	
		Acetamiprid	0.0020	U	ug/L	P436963	
		Endothall	0.25	U	ug/L	P436970	
		Glufosinate	0.10	U	ug/L	P436970	
		Glyphosate	0.10	U	ug/L	P436970	
		Afidopyropen	0.0020	U	ug/L	P436963	
		Bentazon	8.0E-04	U	ug/L	P436963	
		Sucralose	0.010	U	ug/L	P436970	
		Benzovindiflupyr	0.0020	U	ug/L	P436963	
		Carbamazepine	8.0E-04	U	ug/L	P436963	
		Clothianidin	0.0020	U	ug/L	P436963	
		Dinotefuran	0.0020	U	ug/L	P436963	
		Diuron	0.0020	U	ug/L	P436963	
		Fenuron	0.032	U	ug/L	P436963	
		Fluridone	8.0E-04	U	ug/L	P436963	
		Imazapyr	0.14		ug/L	P436963	
		Hydrocodone	0.0020	U	ug/L	P436963	
		Ibuprofen	0.080	U	ug/L	P436963	
		Imidacloprid	0.0020	U	ug/L	P436963	
		Linuron	0.0040	U	ug/L	P436963	
		Mandestrobin	0.0020	U	ug/L	P436963	
		MCPP	0.0020	U	ug/L	P436963	
		Naproxen	0.0080	U	ug/L	P436963	
		Primidone	0.0040	U	ug/L	P436963	
		Pyraclostrobin	0.0020	U	ug/L	P436963	
		Silvex	0.0040	U	ug/L	P436963	
		Thiamethoxam	0.0020	U	ug/L	P436963	
		Tolfenpyrad	0.0020	U	ug/L	P436963	
		Triclopyr	0.0040	U	ug/L	P436963	
2447112	EPA 8270E	Aldrin	0.67	U	ng/L	P437103	

Field ID: 21030071

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2447112	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P437103	
		Alpha-Chlordane	0.21	U	ng/L	P437103	
		PCB-1016	2.1	U	ng/L	P437103	
		Beta-BHC	0.10	U	ng/L	P437103	
		PCB-1221	2.1	U	ng/L	P437103	
		Beta-Cyfluthrin	1.3	U	ng/L	P437103	
		PCB-1232	2.1	U	ng/L	P437103	
		Bifenthrin	0.52	U	ng/L	P437103	
		PCB-1242	2.1	U	ng/L	P437103	
		Carbophenothion	0.93	U	ng/L	P437103	
		PCB-1248	2.1	U	ng/L	P437103	
		Chlorothalonil	3.7	U	ng/L	P437103	
		PCB-1254	2.1	U	ng/L	P437103	
		Cis-Nonachlor	0.21	U	ng/L	P437103	
		PCB-1260	2.1	U	ng/L	P437103	
		Cypermethrin	1.6	U	ng/L	P437103	
		Dacthal	0.16	U	ng/L	P437103	
		DDD-p,p'	0.26	U	ng/L	P437103	
		DDE-p,p'	0.21	U	ng/L	P437103	MS
		DDT-p,p'	0.83	U	ng/L	P437103	
		Delta-BHC	0.94	I	ng/L	P437103	
		Deltamethrin	1.3	U	ng/L	P437103	
		Dichlobenil	0.26	U	ng/L	P437103	
		Dicofol	1.3	U	ng/L	P437103	
		Dieldrin	0.41	U	ng/L	P437103	
		Endosulfan I	0.41	U	ng/L	P437103	
		Endosulfan II	0.93	UJ	ng/L	P437103	LCS
		Endosulfan Sulfate	0.31	U	ng/L	P437103	
		Endrin	0.93	U	ng/L	P437103	
		Endrin Aldehyde	0.78	U	ng/L	P437103	RPD
		Endrin Ketone	0.41	U	ng/L	P437103	
		Esfenvalerate	0.78	U	ng/L	P437103	
		Ethalfuralin	0.16	U	ng/L	P437103	
		Fenpropathrin	0.26	U	ng/L	P437103	
		Gamma-BHC	0.13	U	ng/L	P437103	
		Gamma-Chlordane	0.21	U	ng/L	P437103	MS
		Heptachlor	0.21	U	ng/L	P437103	
		Heptachlor Epoxide	0.26	U	ng/L	P437103	
		Hexachlorobenzene**	1.0	U	ng/L	P437103	
		Kepone	14	U	ng/L	P437103	
		Lambda-Cyhalothrin	0.78	U	ng/L	P437103	
		Methoprene	0.78	U	ng/L	P437103	
		Methoxychlor	0.31	U	ng/L	P437103	
		MGK-264	0.21	U	ng/L	P437103	
		Mirex	0.36	U	ng/L	P437103	

Field ID: 21030071

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2447112	EPA 8270E	Oxychlordane	0.31	U	ng/L	P437103	
		Permethrin	1.7	U	ng/L	P437103	
		Phenothrin	0.93	U	ng/L	P437103	
		Piperonyl Butoxide	0.24	I	ng/L	P437103	
		Prallethrin	2.1	U	ng/L	P437103	
		Tau-Fluvalinate	0.26	U	ng/L	P437103	
		Tetramethrin	0.78	U	ng/L	P437103	
		Trans-Nonachlor	0.21	U	ng/L	P437103	
		Triclosan Methyl	0.16	U	ng/L	P437103	
		Trifluralin	0.21	U	ng/L	P437103	
	EPA 8276	Chlordane	2.1	U	ng/L	P437103	
		Toxaphene	16	U	ng/L	P437103	
2447113	EPA 8270E	Oxybenzone**	10	U	ng/L	P436999	
		Acetochlor	0.21	U	ng/L	P436999	
		Octinoxate**	160	U	ng/L	P436999	
		Alachlor	0.42	U	ng/L	P436999	
		Avobenzone**	100	U	ng/L	P436999	
		Ametryn	1.1	U	ng/L	P436999	
		Atrazine	0.21	U	ng/L	P436999	
		PBDE-47**	4.2	U	ng/L	P436999	
		Atrazine Desethyl	1.4	U	ng/L	P436999	
		PBDE-99**	5.2	U	ng/L	P436999	
		Azinphos Methyl	3.1	U	ng/L	P436999	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P436999	
		Azoxystrobin	0.42	U	ng/L	P436999	
		Bromacil	0.62	U	ng/L	P436999	
		2-Ethylhexyl	12	U	ng/L	P436999	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.47	U	ng/L	P436999	
		Dechlorane Plus**	31	U	ng/L	P436999	
		Caffeine**	9.0	I	ng/L	P436999	
		Dechlorane 602**	5.2	U	ng/L	P436999	
		Carbophenothion	0.52	U	ng/L	P436999	
		Dechlorane 603**	4.2	U	ng/L	P436999	
		Carfentrazone Ethyl	0.16	U	ng/L	P436999	MS
		Hexabromobenzene**	6.2	U	ng/L	P436999	
		Chlorfenapyr	0.31	U	ng/L	P436999	
		PBB-153**	6.2	U	ng/L	P436999	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P436999	
		Pentabromotoluene**	3.1	U	ng/L	P436999	
		Chlorpyrifos Methyl	0.10	U	ng/L	P436999	
		Tris(2-chloroethyl) phosphate (TCEP)**	57	UJ	ng/L	P436999	LCS, RPD
		Coumaphos	1.1	U	ng/L	P436999	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	26	U	ng/L	P436999	
		Cyanazine	5.2	U	ng/L	P436999	

Field ID: 21030071

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2447113	EPA 8270E	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	UJ	ng/L	P436999	LCS
		Cyprodinil	0.21	U	ng/L	P436999	
		Tetradecachloro-m-terphenyl**	7.8	UJ	ng/L	P436999	CCV
		Demeton	3.6	U	ng/L	P436999	
		Diazinon	0.13	U	ng/L	P436999	
		Difenoconazole	0.62	U	ng/L	P436999	
		Dimethenamid	0.10	U	ng/L	P436999	
		Dimethomorph	0.31	U	ng/L	P436999	
		Disulfoton	0.62	U	ng/L	P436999	
		Dithiopyr	1.0	UJ	ng/L	P436999	CCV
		EPTC	0.52	U	ng/L	P436999	
		Ethion	0.31	U	ng/L	P436999	
		Ethoprop	0.13	U	ng/L	P436999	
		Etridiazole	0.10	U	ng/L	P436999	
		Fenamiphos	0.47	U	ng/L	P436999	
		Fenbuconazole	0.52	U	ng/L	P436999	
		Fipronil	0.21	U	ng/L	P436999	
		Fipronil Desulfinyl**	0.10	U	ng/L	P436999	
		Fipronil Sulfide	0.10	U	ng/L	P436999	
		Fipronil Sulfone	0.10	U	ng/L	P436999	
		Fluazifop-P-butyl	0.10	U	ng/L	P436999	
		Fludioxonil	0.10	U	ng/L	P436999	
		Flumioxazin	3.1	U	ng/L	P436999	
		Flutolanil	0.10	U	ng/L	P436999	
		Fluxapyroxad	0.26	U	ng/L	P436999	MS
		Fonofos	0.16	U	ng/L	P436999	
		Hexazinone	0.52	U	ng/L	P436999	
		Imazalil	0.68	U	ng/L	P436999	
		Iprodione	0.52	U	ng/L	P436999	
		Loratadine**	0.31	U	ng/L	P436999	MS
		Malathion	0.36	U	ng/L	P436999	
		Metalaxyl	0.52	U	ng/L	P436999	
		Metolachlor	0.78	U	ng/L	P436999	
		Metribuzin	0.42	U	ng/L	P436999	
		Mevinphos	1.0	U	ng/L	P436999	
		Molinate	0.26	U	ng/L	P436999	
		Myclobutanil	0.36	U	ng/L	P436999	
		Naled	2.6	U	ng/L	P436999	
		Napropamide	0.73	U	ng/L	P436999	
		Norflurazon	1.0	U	ng/L	P436999	
		Oxadiazon	0.36	U	ng/L	P436999	
		Oxyfluorfen	0.21	U	ng/L	P436999	
		Parathion Ethyl	0.16	U	ng/L	P436999	
		Parathion Methyl	0.21	U	ng/L	P436999	

Field ID: 21030071

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2447113	EPA 8270E	Pendimethalin	1.8	U	ng/L	P436999	
		Phenytain**	5.5	U	ng/L	P436999	
		Phorate	0.26	UJ	ng/L	P436999	LCS
		Prodiamine	0.21	U	ng/L	P436999	
		Prometon	3.1	UJ	ng/L	P436999	LCS
		Prometryn	0.36	U	ng/L	P436999	
		Pronamide	0.10	U	ng/L	P436999	
		Propanil	0.10	U	ng/L	P436999	
		Propargite	0.83	U	ng/L	P436999	
		Propiconazole	0.62	U	ng/L	P436999	
		Pyraflufen Ethyl	0.31	U	ng/L	P436999	
		Pyridaben	1.5	U	ng/L	P436999	
		Pyriproxyfen	0.26	U	ng/L	P436999	
		Simazine	0.26	U	ng/L	P436999	
		Stirophos	0.42	U	ng/L	P436999	
		Sulfentrazone	1.5	U	ng/L	P436999	
		Tebuconazole	1.5	U	ng/L	P436999	
		Terbufos	0.21	U	ng/L	P436999	
		Terbuthylazine	0.21	U	ng/L	P436999	
		Thiobencarb	0.52	U	ng/L	P436999	
		Triadimefon	0.16	U	ng/L	P436999	

Ref. Method and Comment:

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

EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: ROCKY CREEK AT 156TH AV

Collection Date/Time: 10/24/2023 12:00

Field ID: G1NE0020

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2447103	DEP SOP: NU-094-1	Color (true)	420		PCU	P436996	
	EPA 180.1 Rev. 2.0	Turbidity	3.8		NTU	P436988	
	EPA 300.0 Rev. 2.1	Chloride	16		mg Cl/L	P437502	
		Sulfate	2.2		mg SO4/L	P437506	
	SM 2320 B-2011	Total Alkalinity	16		mg CaCO3/L	P437314	
	SM 2540 C-2015	TDS	159		mg/L	P437390	
	SM 2540 D-2015	TSS	11		mg/L	P437270	
2447104	SM 4500-F- C-2011	Fluoride	0.083	I	mg F/L	P437316	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.011		mg N/L	P437140	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P437063	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P437167	
	EPA 365.1 Rev. 2.0	Total-P	0.13		mg P/L	P437017	
2447117	SM 5310 B-2011	Organic Carbon	47		mg C/L	P437225	
	EPA 200.7 Rev. 4.4	Calcium	12.9		mg/L	P437091	
		Iron	1.08E+03		ug/L	P437091	
		Magnesium	4.12		mg/L	P437091	
		Potassium	1.7		mg/L	P437091	
		Sodium	6.7		mg/L	P437091	
		Strontium	20.1		ug/L	P437091	
		Tin	3.0	U	ug/L	P437091	
		Titanium	3.4		ug/L	P437091	
		Vanadium	3.1	I	ug/L	P437091	
		Zinc	5.0	U	ug/L	P437091	
	EPA 200.8 Rev. 5.4	Aluminum	645		ug/L	P437091	
		Antimony	0.090	I	ug/L	P437091	
		Arsenic	1.11		ug/L	P437091	
		Barium	11.2		ug/L	P437091	
		Beryllium	0.062		ug/L	P437091	
		Boron	22.8		ug/L	P437091	
		Cadmium	0.027	I	ug/L	P437091	
		Chromium	1.7		ug/L	P437091	
		Cobalt	0.417		ug/L	P437091	
		Copper	0.56	I	ug/L	P437091	
		Lead	0.40	I	ug/L	P437091	
		Manganese	38.3		ug/L	P437091	
		Molybdenum	0.15	U	ug/L	P437091	
		Nickel	0.89	I	ug/L	P437091	
		Selenium	0.20	U	ug/L	P437091	
		Silver	0.010	U	ug/L	P437091	
		Thallium	0.10	U	ug/L	P437091	
	SM 2340 B-2011	Hardness	49.3		mg/L	P437091	

Ref. Method and Comment:

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

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

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P436996

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436988

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P437091

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: P437091

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437502

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: P437506

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P437140

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P437063

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437167

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P437017

Component	Result	Code	Units
Total-P	0.010	U	mg P/L

Reference Method: EPA 8270E
Batch ID: P436999

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P436999

Component	Result	Code	Units
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	6.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.7	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P436999

Component	Result	Code	Units
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)	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 8270E

Batch ID: P437103

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
Carbophenothion	0.90	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'	0.82	I	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: P437103

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: P437103

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

Reference Method: EPA 8321B

Batch ID: P436913

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: P436913

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

Reference Method: EPA 8321B
Batch ID: P436963

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: P436970

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: SM 2320 B-2011
Batch ID: P437314

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

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Reference Method: SM 2540 C-2015
Batch ID: P437390

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P437270

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P437316

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P437225

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: P436996

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436988

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P437091

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	106		P	85 - 115
Iron	112		P	85 - 115
Magnesium	105		P	85 - 115
Potassium	103		P	85 - 115
Sodium	107		P	85 - 115
Strontium	99.9		P	85 - 115
Tin	98.7		P	85 - 115
Titanium	102		P	85 - 115
Vanadium	101		P	85 - 115
Zinc	98.2		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P437091

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	99.3		P	85 - 115
Antimony	97.3		P	85 - 115
Arsenic	97.1		P	85 - 115
Barium	101		P	85 - 115
Beryllium	93.8		P	85 - 115
Boron	102		P	85 - 115
Cadmium	100		P	85 - 115
Chromium	98.9		P	85 - 115
Cobalt	95.2		P	85 - 115
Copper	93.9		P	85 - 115
Lead	91.9		P	85 - 115
Manganese	98.8		P	85 - 115
Molybdenum	96.9		P	85 - 115
Nickel	93.6		P	85 - 115
Selenium	99.2		P	85 - 115
Silver	105		P	85 - 115
Thallium	96.1		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437502

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437506

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P437140

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P437063

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437167

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P437017

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	106		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P436999

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	89.3		P	37 - 154
Acetochlor	100		P	64 - 124
Alachlor	96.2		P	61 - 118
Ametryn	98.5		P	47 - 158
Atrazine	98.0		P	68 - 121
Atrazine Desethyl	81.2		P	30 - 119
Avobenzone	130		P	48 - 193
Azinphos Methyl	165		P	30 - 194
Azoxystrobin	105		P	58 - 154
Bromacil	70.6		P	47 - 126
Butylate	55.1		P	31 - 83.0
Caffeine	96.7		P	10 - 180
Carbophenothion	111		P	59 - 133
Carfentrazone Ethyl	113		P	59 - 147
Chlorfenapyr	67.6		P	52 - 118
Chlorpyrifos Ethyl	76.9		P	59 - 119
Chlorpyrifos Methyl	80.6		P	65 - 123
Coumaphos	146		P	11 - 223
Cyanazine	149		P	63 - 250
Cyprodinil	116		P	52 - 143
Dechlorane 602	49.9		P	23 - 142
Dechlorane 603	120		P	51 - 171

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
 Batch ID: P436999

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dechlorane Plus	98.5		P	46 - 161
Demeton	103		P	42 - 119
Diazinon	98.4		P	67 - 132
Difenoconazole	99.8		P	12 - 204
Dimethenamid	85.5		P	53 - 113
Dimethomorph	110		P	13 - 238
Disulfoton	79.6		P	56 - 126
Dithiopyr	89.1		P	58 - 127
EPTC	60.8		P	31 - 78.0
Ethion	67.8		P	24 - 127
Ethoprop	85.9		P	60 - 118
Etridiazole	72.8		P	32 - 91.0
Fenamiphos	75.6		P	54 - 129
Fenbuconazole	77.1		P	31 - 162
Fipronil	82.7		P	56 - 131
Fipronil Desulfinyl	60.7		P	58 - 132
Fipronil Sulfide	74.5		P	51 - 123
Fipronil Sulfone	72.2		P	50 - 125
Fluazifop-P-butyl	59.7		P	52 - 132
Fludioxonil	62.7		P	52 - 129
Flumioxazin	98.0		P	34 - 250
Flutolanil	67.6		P	45 - 128
Fluxapyroxad	147		P	31 - 150
Fonofos	85.3		P	60 - 116
Hexabromobenzene	114		P	52 - 165
Hexazinone	92.0		P	59 - 120
Imazalil	66.7		P	39 - 134
Iprodione	122		P	39 - 243
Loratadine	206		P	10 - 240
Malathion	129		P	53 - 145
Metalaxyl	84.5		P	59 - 120
Metolachlor	97.3		P	64 - 122
Metribuzin	98.3		P	33 - 128
Mevinphos	84.6		P	48 - 119
Molinate	70.4		P	42 - 89.0
Myclobutanil	100		P	54 - 129
Naled	69.1		P	10 - 138
Napropamide	50.7		P	40 - 122
Norflurazon	106		P	49 - 132
Octinoxate	119		P	29 - 176
Oxadiazon	57.8		P	50 - 115
Oxybenzone	131		P	45 - 145
Oxyfluorfen	94.6		P	62 - 149
Parathion Ethyl	102		P	68 - 119
Parathion Methyl	109		P	68 - 147
PBB-153	136		P	42 - 179
PBDE-47	96.0		P	44 - 141
PBDE-99	78.2		P	36 - 141
Pendimethalin	92.6		P	59 - 158
Pentabromotoluene	102		P	58 - 148
Phenytoin	19.8		P	10 - 151
Phorate	126		F	44 - 124

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P436999

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Prodiamine	84.2		P	10 - 136
Prometon	144		F	45 - 131
Prometryn	120		P	52 - 140
Pronamide	116		P	70 - 129
Propanil	110		P	54 - 144
Propargite	78.3		P	10 - 191
Propiconazole	79.7		P	49 - 128
Pyraflufen Ethyl	122		P	46 - 141
Pyridaben	156		P	29 - 198
Pyriproxyfen	115		P	33 - 221
Simazine	110		P	62 - 119
Stirophos	32.0		P	13 - 144
Sulfentrazone	59.4		P	12 - 152
Tebuconazole	73.4		P	10 - 135
Terbufos	104		P	67 - 136
Terbutylazine	108		P	66 - 113
Tetradecachloro-m-terphenyl	193		P	30 - 235
Thiobencarb	104		P	51 - 125
Tri-o-cresyl Phosphate	118		P	50 - 150
Triadimefon	84.3		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	70.8		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	53.5		F	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	53.4		F	59 - 166

Reference Method: EPA 8270E

Batch ID: P437103

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	69.0		P	30 - 96.0
Alpha-BHC	87.7		P	70 - 109
Alpha-Chlordane	76.5		P	45 - 107
Beta-BHC	129		P	64 - 138
Beta-Cyfluthrin	92.3		P	17 - 141
Bifenthrin	65.0		P	10 - 113
Carbophenothion	60.7		P	24 - 91.0
Chlorothalonil	56.9		P	26 - 180
Cis-Nonachlor	70.2		P	37 - 102
Cypermethrin	61.8		P	20 - 133
Dacthal	109		P	69 - 114
DDD-p,p'	76.7		P	42 - 105
DDE-p,p'	104		P	42 - 106
DDT-p,p'	66.3		P	42 - 107
Delta-BHC	113		P	67 - 144
Deltamethrin	73.9		P	15 - 149
Dichlobenil	105		P	46 - 117
Dicofol	93.9		P	34 - 114
Dieldrin	73.9		P	50 - 108
Endosulfan I	93.4		P	55 - 104
Endosulfan II	112		F	51 - 111
Endosulfan Sulfate	93.4		P	56 - 121
Endrin	73.0		P	10 - 106
Endrin Aldehyde	95.5		P	34 - 114

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P437103

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endrin Ketone	98.9		P	63 - 177
Esfenvalerate	104		P	29 - 143
Ethalfuralin	78.0		P	46 - 96.0
Fenpropathrin	63.1		P	28 - 115
Gamma-BHC	100		P	65 - 121
Gamma-Chlordane	98.3		P	39 - 103
Heptachlor	86.1		P	39 - 94.0
Heptachlor Epoxide	100		P	54 - 104
Hexachlorobenzene	84.3		P	36 - 100
Kepone	134		P	10 - 225
Lambda-Cyhalothrin	90.4		P	10 - 135
Methoprene	67.8		P	10 - 109
Methoxychlor	108		P	52 - 112
MGK-264	116		P	44 - 117
Mirex	86.3		P	20 - 90.0
Oxychlordane	78.2		P	44 - 102
PCB-1016	106		P	45 - 107
PCB-1260	109		P	40 - 118
Permethrin	101		P	18 - 135
Phenothrin	77.6		P	10 - 102
Piperonyl Butoxide	135		P	28 - 156
Prallethrin	97.3		P	28 - 113
Tau-Fluvalinate	88.6		P	10 - 123
Tetramethrin	79.3		P	18 - 158
Trans-Nonachlor	87.1		P	39 - 104
Triclosan Methyl	76.3		P	54 - 108
Trifluralin	82.6		P	46 - 97.0

Reference Method: EPA 8276

Batch ID: P437103

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	69.6		P	52 - 117
Toxaphene	78.9		P	44 - 125

Reference Method: EPA 8321B

Batch ID: P436913

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	75.8		P	40 - 150
Aldicarb	50.6		P	30 - 150
Aldicarb Sulfone	90.8		P	40 - 150
Aldicarb Sulfoxide	123		P	40 - 150
Carbaryl	68.5		P	40 - 150
Carbofuran	73.1		P	40 - 150
Methiocarb	65.1		P	40 - 150
Methomyl	80.7		P	40 - 150
Oxamyl	87.8		P	40 - 150
Propoxur	73.3		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P436963

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	73.3		P	40 - 150
2,4,5-T	64.9		P	40 - 150
Acetaminophen	91.5		P	30 - 150
Acetamiprid	80.3		P	40 - 150
Afidopyropen	71.6		P	30 - 150
Bentazon	94.4		P	30 - 150
Benzovindiflupyr	78.5		P	40 - 150
Carbamazepine	79.7		P	40 - 150
Clothianidin	83.6		P	40 - 150
Dinotefuran	88.2		P	40 - 150
Diuron	72.8		P	40 - 150
Fenuron	88.5		P	40 - 150
Fluridone	81.1		P	40 - 150
Hydrocodone	93.5		P	40 - 150
Ibuprofen	58.9		P	40 - 150
Imazapyr	75.2		P	40 - 150
Imidacloprid	78.4		P	40 - 150
Linuron	71.7		P	40 - 150
Mandestrobin	85.2		P	40 - 150
MCPP	75.0		P	40 - 150
Naproxen	60.1		P	40 - 150
Primidone	87.6		P	40 - 150
Pyraclostrobin	77.8		P	40 - 150
Silvex	72.0		P	40 - 150
Thiamethoxam	82.3		P	40 - 150
Tolfenpyrad	49.2		P	30 - 150
Triclopyr	79.8		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P436970

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	101		P	40 - 150
AMPA	98.8		P	40 - 160
Endothall	94.2		P	40 - 160
Glufosinate	95.5		P	40 - 160
Glyphosate	94.9		P	40 - 160
Sucralose	98.0		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P437314

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	100		P	92 - 105

Reference Method: SM 2540 C-2015

Batch ID: P437390

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	93.2		P	85 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2540 D-2015
Batch ID: P437270

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	94.4		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P437316

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.6		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P437225

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P437091

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446928	Calcium	102		P	80 - 120
2446928	Iron	110	109	P/P	80 - 120
2446928	Magnesium	103		P	80 - 120
2446928	Potassium	102	101	P/P	80 - 120
2446928	Sodium	106	105	P/P	80 - 120
2446928	Strontium	98.2	97.4	P/P	80 - 120
2446928	Tin	95.5	95.4	P/P	80 - 120
2446928	Titanium	101	101	P/P	80 - 120
2446928	Vanadium	99.5	99.5	P/P	80 - 120
2446928	Zinc	94.0	94.0	P/P	80 - 120
2447188	Calcium	98.7		P	80 - 120
2447188	Iron	109		P	80 - 120
2447188	Magnesium	103		P	80 - 120
2447188	Potassium	102		P	80 - 120
2447188	Sodium	106		P	80 - 120
2447188	Strontium	98.0		P	80 - 120
2447188	Tin	95.2		P	80 - 120
2447188	Titanium	101		P	80 - 120
2447188	Vanadium	100		P	80 - 120
2447188	Zinc	97.5		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P437091

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446928	Aluminum	96.6	97.7	P/P	80 - 120
2446928	Antimony	98.0	99.5	P/P	80 - 120
2446928	Arsenic	96.3	98.9	P/P	80 - 120
2446928	Barium	100	101	P/P	80 - 120
2446928	Beryllium	94.0	93.9	P/P	80 - 120
2446928	Boron	101	104	P/P	80 - 120
2446928	Cadmium	99.7	101	P/P	80 - 120
2446928	Chromium	99.2	100	P/P	80 - 120
2446928	Cobalt	91.3	93.1	P/P	80 - 120
2446928	Copper	91.4	92.3	P/P	80 - 120
2446928	Lead	90.6	92.8	P/P	80 - 120
2446928	Manganese	97.7	99.6	P/P	80 - 120
2446928	Molybdenum	97.2	100	P/P	80 - 120
2446928	Nickel	89.7	91.2	P/P	80 - 120
2446928	Selenium	97.3	98.0	P/P	80 - 120
2446928	Silver	105	106	P/P	80 - 120
2446928	Thallium	97.4	100	P/P	80 - 120
2447188	Aluminum	96.7		P	80 - 120
2447188	Antimony	99.5		P	80 - 120
2447188	Arsenic	95.8		P	80 - 120
2447188	Barium	99.7		P	80 - 120
2447188	Beryllium	94.9		P	80 - 120
2447188	Boron	105		P	80 - 120
2447188	Cadmium	101		P	80 - 120
2447188	Chromium	98.8		P	80 - 120
2447188	Cobalt	92.4		P	80 - 120
2447188	Copper	89.0		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P437091

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2447188	Lead	93.2		P	80 - 120
2447188	Manganese	96.1		P	80 - 120
2447188	Molybdenum	98.8		P	80 - 120
2447188	Nickel	90.4		P	80 - 120
2447188	Selenium	96.5		P	80 - 120
2447188	Silver	105		P	80 - 120
2447188	Thallium	100		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437502

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2447180	Chloride	102		P	90 - 110
2447214	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437506

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2447180	Sulfate	102		P	90 - 110
2447214	Sulfate	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P437140

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2447086	Ammonia-N	96.2	98.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P437063

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2447104	Kjeldahl Nitrogen	106	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437167

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2447041	NO2NO3-N	95.5	97.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P437017

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2447086	Total-P	107	108	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P436999

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2447011	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	85.1	95.7	P/P	29 - 155
2447011	Acetochlor	111	99.5	P/P	60 - 124

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P436999

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2447011	Alachlor	88.6	91.8	P/P	54 - 122
2447011	Ametryn	77.1	77.0	P/P	51 - 208
2447011	Atrazine Desethyl	71.3	71.7	P/P	13 - 124
2447011	Avobenzone	117	124	P/P	35 - 187
2447011	Azinphos Methyl	176	185	P/P	43 - 276
2447011	Azoxystrobin	99.5	102	P/P	52 - 300
2447011	Bromacil	67.2	67.6	P/P	44 - 134
2447011	Butylate	63.8	54.9	P/P	23 - 82.0
2447011	Caffeine	100	93.8	P/P	10 - 277
2447011	Carbophenothion	121	131	P/P	47 - 135
2447011	Carfentrazone Ethyl	121	149	P/F	46 - 147
2447011	Chlorfenapyr	75.6	82.9	P/P	43 - 114
2447011	Chlorpyrifos Ethyl	75.4	66.9	P/P	47 - 124
2447011	Chlorpyrifos Methyl	68.8	81.1	P/P	60 - 135
2447011	Coumaphos	112	162	P/P	10 - 222
2447011	Cyanazine	168	133	P/P	10 - 257
2447011	Cyprodinil	116	115	P/P	42 - 148
2447011	Dechlorane 602	49.5	55.0	P/P	14 - 133
2447011	Dechlorane 603	88.3	101	P/P	18 - 191
2447011	Dechlorane Plus	76.6	77.1	P/P	23 - 154
2447011	Demeton	134	129	P/P	41 - 137
2447011	Diazinon	101	91.6	P/P	64 - 139
2447011	Difenoconazole	85.2	63.2	P/P	46 - 254
2447011	Dimethenamid	97.8	90.7	P/P	47 - 117
2447011	Dimethomorph	101	100	P/P	14 - 255
2447011	Disulfoton	68.0	73.4	P/P	52 - 130
2447011	Dithiopyr	99.2	87.4	P/P	40 - 121
2447011	EPTC	65.3	58.0	P/P	19 - 78.0
2447011	Ethion	96.4	106	P/P	12 - 124
2447011	Ethoprop	88.1	93.2	P/P	68 - 144
2447011	Etridiazole	92.8	75.1	P/P	26 - 96.0
2447011	Fenamiphos	76.3	82.1	P/P	41 - 129
2447011	Fenbuconazole	85.3	107	P/P	26 - 169
2447011	Fipronil	83.9	84.9	P/P	46 - 145
2447011	Fipronil Desulfinyl	49.5	47.5	P/P	47 - 136
2447011	Fipronil Sulfide	64.4	76.2	P/P	41 - 127
2447011	Fipronil Sulfone	70.3	85.8	P/P	35 - 133
2447011	Fluazifop-P-butyl	70.3	75.6	P/P	46 - 131
2447011	Fludioxonil	78.6	77.4	P/P	51 - 124
2447011	Flumioxazin	97.2	65.8	P/P	10 - 289
2447011	Flutolanil	113	121	P/P	34 - 130
2447011	Fluxapyroxad	422	465	F/F	10 - 197
2447011	Fonofos	70.5	74.5	P/P	42 - 131
2447011	Hexabromobenzene	111	119	P/P	47 - 178
2447011	Hexazinone	92.1	92.5	P/P	64 - 125
2447011	Imazail	71.8	90.4	P/P	37 - 252
2447011	Iprodione	124	156	P/P	34 - 265
2447011	Loratadine	206	267	P/F	20 - 231
2447011	Malathion	152	128	P/P	34 - 164
2447011	Metalaxyl	92.1	96.4	P/P	49 - 125
2447011	Metolachlor	111	99.1	P/P	54 - 125
2447011	Metribuzin	100	90.6	P/P	51 - 139

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P436999

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2447011	Mevinphos	79.4	79.3	P/P	46 - 130
2447011	Molinate	83.7	72.1	P/P	39 - 93.0
2447011	Myclobutanil	129	111	P/P	50 - 130
2447011	Naled	78.9	72.4	P/P	10 - 150
2447011	Napropamide	59.5	58.5	P/P	10 - 109
2447011	Norflurazon	120	125	P/P	36 - 134
2447011	Octinoxate	106	108	P/P	18 - 170
2447011	Oxybenzone	107	111	P/P	33 - 154
2447011	Oxyfluorfen	135	119	P/P	62 - 154
2447011	Parathion Ethyl	113	95.3	P/P	65 - 120
2447011	Parathion Methyl	132	152	P/P	77 - 185
2447011	PBB-153	105	126	P/P	23 - 193
2447011	PBDE-47	93.9	105	P/P	31 - 139
2447011	PBDE-99	71.7	79.7	P/P	24 - 138
2447011	Pendimethalin	90.2	104	P/P	50 - 146
2447011	Pentabromotoluene	97.7	99.4	P/P	54 - 152
2447011	Phenytoin	40.1	52.3	P/P	10 - 157
2447011	Phorate	125	124	P/P	54 - 161
2447011	Prodiamine	106	105	P/P	29 - 160
2447011	Prometon	135	120	P/P	38 - 145
2447011	Prometryn	128	118	P/P	32 - 151
2447011	Pronamide	117	110	P/P	61 - 140
2447011	Propanil	111	96.3	P/P	50 - 147
2447011	Propargite	95.2	102	P/P	10 - 190
2447011	Propiconazole	84.9	97.8	P/P	30 - 146
2447011	Pyraflufen Ethyl	127	134	P/P	30 - 147
2447011	Pyridaben	140	166	P/P	15 - 195
2447011	Pyriproxyfen	127	148	P/P	31 - 218
2447011	Simazine	104	94.7	P/P	45 - 139
2447011	Stirophos	28.0	26.4	P/P	10 - 134
2447011	Tebuconazole	92.0	100	P/P	10 - 133
2447011	Terbufos	89.4	84.0	P/P	65 - 151
2447011	Terbutylazine	106	89.4	P/P	62 - 117
2447011	Tetradecachloro-m-terphenyl	176	132	P/P	10 - 260
2447011	Thiobencarb	114	98.9	P/P	48 - 122
2447011	Tri-o-cresyl Phosphate	95.8	109	P/P	32 - 151
2447011	Triadimefon	93.3	80.5	P/P	46 - 124
2447011	Tris(1-chloro-2-propyl) phosphate (TCPP)	112	126	P/P	51 - 154
2447011	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	82.8	94.1	P/P	59 - 147
2447011	Tris(2-chloroethyl) phosphate (TCEP)	74.4	86.8	P/P	65 - 156

Reference Method: EPA 8270E
Batch ID: P437103

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2447115	Aldrin	52.9	59.5	P/P	24 - 81.0
2447115	Alpha-BHC	78.0	86.1	P/P	65 - 110
2447115	Alpha-Chlordane	55.5	76.1	P/P	43 - 119
2447115	Beta-BHC	125	157	P/P	54 - 165
2447115	Beta-Cyfluthrin	75.7	76.2	P/P	27 - 165
2447115	Bifenthrin	60.5	78.9	P/P	17 - 117
2447115	Carbophenothion	64.9	69.1	P/P	21 - 108

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P437103

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2447115	Chlorothalonil	121	62.4	P/P	10 - 255
2447115	Cis-Nonachlor	64.3	70.6	P/P	34 - 98.0
2447115	Cypermethrin	66.6	59.8	P/P	25 - 143
2447115	Dacthal	102	102	P/P	55 - 139
2447115	DDD-p,p'	71.5	75.4	P/P	30 - 109
2447115	DDE-p,p'	89.0	109	P/F	35 - 106
2447115	DDT-p,p'	68.1	73.1	P/P	41 - 101
2447115	Delta-BHC	136	131	P/P	58 - 165
2447115	Deltamethrin	78.2	78.3	P/P	10 - 194
2447115	Dichlobenil	63.7	82.7	P/P	22 - 114
2447115	Dicofol	72.8	90.9	P/P	17 - 133
2447115	Dieldrin	70.7	74.9	P/P	45 - 129
2447115	Endosulfan I	92.3	104	P/P	49 - 104
2447115	Endosulfan II	93.1	94.6	P/P	37 - 117
2447115	Endosulfan Sulfate	85.7	99.8	P/P	38 - 128
2447115	Endrin	69.9	76.7	P/P	35 - 116
2447115	Endrin Aldehyde	35.1	81.8	P/P	19 - 108
2447115	Endrin Ketone	97.8	98.9	P/P	44 - 134
2447115	Esfenvalerate	117	130	P/P	27 - 176
2447115	Ethalfuralin	63.9	79.1	P/P	49 - 100
2447115	Fenpropathrin	58.4	77.3	P/P	34 - 117
2447115	Gamma-BHC	97.3	120	P/P	59 - 129
2447115	Gamma-Chlordane	92.3	111	P/F	33 - 107
2447115	Heptachlor	87.4	93.1	P/P	37 - 94.0
2447115	Heptachlor Epoxide	62.9	85.4	P/P	38 - 118
2447115	Hexachlorobenzene	50.1	69.7	P/P	35 - 97.0
2447115	Kepone	80.5	115	P/P	10 - 221
2447115	Lambda-Cyhalothrin	69.4	76.6	P/P	23 - 190
2447115	Methoprene	80.5	72.2	P/P	21 - 109
2447115	Methoxychlor	101	104	P/P	46 - 118
2447115	MGK-264	119	118	P/P	39 - 122
2447115	Mirex	76.9	87.8	P/P	25 - 90.0
2447115	Oxychlordane	84.7	91.8	P/P	42 - 100
2447115	Permethrin	67.6	75.0	P/P	33 - 181
2447115	Phenothrin	58.5	76.0	P/P	12 - 125
2447115	Piperonyl Butoxide	76.4	105	P/P	10 - 178
2447115	Prallethrin	95.4	94.4	P/P	24 - 122
2447115	Tau-Fluvalinate	99.9	106	P/P	13 - 151
2447115	Tetramethrin	77.3	91.3	P/P	16 - 172
2447115	Trans-Nonachlor	75.8	89.7	P/P	39 - 100
2447115	Triclosan Methyl	76.1	71.5	P/P	43 - 110
2447115	Trifluralin	64.3	80.1	P/P	45 - 94.0
2447123	PCB-1016	105	100	P/P	45 - 107
2447123	PCB-1260	76.5	69.9	P/P	40 - 112

Reference Method: EPA 8276

Batch ID: P437103

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2447123	Chlordane	75.2	73.7	P/P	43 - 123
2447123	Toxaphene	88.8	85.5	P/P	27 - 156

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P436913

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446686	3-Hydroxycarbofuran	44.5	42.9	P/P	40 - 150
2446686	Aldicarb	28.9	29.4	F/F	30 - 150
2446686	Aldicarb Sulfone	53.5	54.9	P/P	40 - 150
2446686	Aldicarb Sulfoxide	21.1	22.6	F/F	40 - 150
2446686	Carbaryl	33.0	35.0	F/F	40 - 150
2446686	Carbofuran	33.8	34.7	F/F	40 - 150
2446686	Methiocarb	55.8	54.2	P/P	40 - 150
2446686	Methomyl	24.7	25.5	F/F	40 - 150
2446686	Oxamyl	41.9	40.9	P/P	40 - 150
2446686	Propoxur	32.5	32.9	F/F	40 - 150

Reference Method: EPA 8321B

Batch ID: P436963

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446847	2,4-D	105	111	P/P	40 - 150
2446847	2,4,5-T	105	109	P/P	40 - 150
2446847	Acetaminophen	142	147	P/P	30 - 150
2446847	Acetamiprid	76.6	86.2	P/P	40 - 150
2446847	Afidopyropen	72.9	76.2	P/P	30 - 150
2446847	Bentazon	73.4	77.0	P/P	30 - 150
2446847	Benzovindiflupyr	83.5	85.8	P/P	40 - 150
2446847	Carbamazepine	77.7	75.7	P/P	40 - 150
2446847	Clothianidin	109	111	P/P	40 - 150
2446847	Dinotefuran	105	104	P/P	40 - 150
2446847	Diuron	62.1	67.3	P/P	40 - 150
2446847	Fenuron	65.7	68.6	P/P	40 - 150
2446847	Fluridone	72.7	72.8	P/P	40 - 150
2446847	Hydrocodone	94.6	97.0	P/P	40 - 150
2446847	Ibuprofen	67.2	70.5	P/P	40 - 150
2446847	Imazapyr	101	106	P/P	40 - 150
2446847	Imidacloprid	137	141	P/P	40 - 150
2446847	Linuron	72.8	71.4	P/P	40 - 150
2446847	Mandestrobin	88.2	89.3	P/P	40 - 150
2446847	MCPP	102	109	P/P	40 - 150
2446847	Naproxen	69.8	63.5	P/P	40 - 150
2446847	Primidone	91.1	88.5	P/P	40 - 150
2446847	Pyraclostrobin	83.3	88.4	P/P	40 - 150
2446847	Silvex	96.7	105	P/P	40 - 150
2446847	Thiamethoxam	116	120	P/P	40 - 150
2446847	Tolfenpyrad	53.2	63.3	P/P	30 - 150
2446847	Triclopyr	113	122	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P436970

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446847	Acesulfame K	144	146	P/P	40 - 150
2446847	AMPA	80.9	87.6	P/P	40 - 160
2446847	Endothall	93.2	97.4	P/P	40 - 160
2446847	Glufosinate	83.3	86.0	P/P	40 - 160
2446847	Glyphosate	77.4	77.4	P/P	40 - 160

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P436970

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446847	Sucralose	116	111	P/P	40 - 150

Reference Method: SM 5310 B-2011
Batch ID: P437225

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2447193	Organic Carbon	94.5	94.9	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P436996

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2447012	Color (true)	1.57	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436988

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446930	Turbidity	19.1	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P437091

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446928	Calcium	0.333	Spike	P	0 - 20
2446928	Iron	0.731	Spike	P	0 - 20
2446928	Magnesium	0.573	Spike	P	0 - 20
2446928	Potassium	0.824	Spike	P	0 - 20
2446928	Sodium	0.284	Spike	P	0 - 20
2446928	Strontium	0.749	Spike	P	0 - 20
2446928	Tin	0.0875	Spike	P	0 - 20
2446928	Titanium	0.0360	Spike	P	0 - 20
2446928	Vanadium	0.0142	Spike	P	0 - 20
2446928	Zinc	0.00372	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P437091

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446928	Aluminum	1.12	Spike	P	0 - 20
2446928	Antimony	1.42	Spike	P	0 - 20
2446928	Arsenic	2.62	Spike	P	0 - 20
2446928	Barium	0.792	Spike	P	0 - 20
2446928	Beryllium	0.176	Spike	P	0 - 20
2446928	Boron	2.46	Spike	P	0 - 20
2446928	Cadmium	1.48	Spike	P	0 - 20
2446928	Chromium	1.02	Spike	P	0 - 20
2446928	Cobalt	2.00	Spike	P	0 - 20
2446928	Copper	1.02	Spike	P	0 - 20
2446928	Lead	2.41	Spike	P	0 - 20
2446928	Manganese	1.91	Spike	P	0 - 20
2446928	Molybdenum	2.64	Spike	P	0 - 20
2446928	Nickel	1.68	Spike	P	0 - 20
2446928	Selenium	0.691	Spike	P	0 - 20
2446928	Silver	1.23	Spike	P	0 - 20
2446928	Thallium	2.80	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437502

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2447180	Chloride	1.72	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437506

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2447180	Sulfate	1.84	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P437140

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2447086	Ammonia-N	2.37	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P437063

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2447104	Kjeldahl Nitrogen	2.67	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437167

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2447041	NO2NO3-N	1.18	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P437017

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2447086	Total-P	1.09	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P436999

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2447011	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	11.8	Spike	P	0 - 35
2447011	Acetochlor	10.7	Spike	P	0 - 28
2447011	Alachlor	3.49	Spike	P	0 - 30
2447011	Ametryn	0.0630	Spike	P	0 - 32
2447011	Atrazine	3.04	Spike	P	0 - 33
2447011	Atrazine Desethyl	0.347	Spike	P	0 - 36
2447011	Avobenzene	6.00	Spike	P	0 - 35
2447011	Azinphos Methyl	5.15	Spike	P	0 - 62
2447011	Azoxystrobin	2.80	Spike	P	0 - 39

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P436999

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2447011	Bromacil	0.590	Spike	P	0 - 33
2447011	Butylate	14.9	Spike	P	0 - 51
2447011	Caffeine	6.80	Spike	P	0 - 100
2447011	Carbophenothion	7.44	Spike	P	0 - 34
2447011	Carfentrazone Ethyl	20.5	Spike	P	0 - 33
2447011	Chlorfenapyr	9.19	Spike	P	0 - 28
2447011	Chlorpyrifos Ethyl	11.9	Spike	P	0 - 31
2447011	Chlorpyrifos Methyl	16.4	Spike	P	0 - 27
2447011	Coumaphos	36.5	Spike	P	0 - 62
2447011	Cyanazine	22.9	Spike	P	0 - 48
2447011	Cyprodinil	1.06	Spike	P	0 - 29
2447011	Dechlorane 602	10.5	Spike	P	0 - 60
2447011	Dechlorane 603	13.1	Spike	P	0 - 40
2447011	Dechlorane Plus	0.655	Spike	P	0 - 38
2447011	Demeton	3.80	Spike	P	0 - 33
2447011	Diazinon	10.2	Spike	P	0 - 32
2447011	Difenoconazole	29.7	Spike	P	0 - 71
2447011	Dimethenamid	7.52	Spike	P	0 - 60
2447011	Dimethomorph	0.452	Spike	P	0 - 61
2447011	Disulfoton	7.62	Spike	P	0 - 30
2447011	Dithiopyr	12.6	Spike	P	0 - 28
2447011	EPTC	11.8	Spike	P	0 - 56
2447011	Ethion	9.78	Spike	P	0 - 79
2447011	Ethoprop	5.68	Spike	P	0 - 31
2447011	Etridiazole	21.1	Spike	P	0 - 43
2447011	Fenamiphos	7.33	Spike	P	0 - 43
2447011	Fenbuconazole	22.7	Spike	P	0 - 79
2447011	Fipronil	1.25	Spike	P	0 - 46
2447011	Fipronil Desulfinyl	2.78	Spike	P	0 - 36
2447011	Fipronil Sulfide	13.9	Spike	P	0 - 34
2447011	Fipronil Sulfone	11.4	Spike	P	0 - 47
2447011	Fluazifop-P-butyl	7.16	Spike	P	0 - 38
2447011	Fludioxonil	1.66	Spike	P	0 - 29
2447011	Flumioxazin	38.5	Spike	P	0 - 63
2447011	Flutolanil	7.03	Spike	P	0 - 36
2447011	Fluxapyroxad	9.80	Spike	P	0 - 65
2447011	Fonofos	5.51	Spike	P	0 - 35
2447011	Hexabromobenzene	6.74	Spike	P	0 - 41
2447011	Hexazinone	0.355	Spike	P	0 - 31
2447011	Imazalil	22.9	Spike	P	0 - 52
2447011	Iprodione	23.1	Spike	P	0 - 49
2447011	Loratadine	25.6	Spike	P	0 - 59
2447011	Malathion	17.1	Spike	P	0 - 77
2447011	Metalaxyl	4.52	Spike	P	0 - 76
2447011	Metolachlor	10.9	Spike	P	0 - 29
2447011	Metribuzin	10.2	Spike	P	0 - 51
2447011	Mevinphos	0.0502	Spike	P	0 - 31
2447011	Molinate	15.0	Spike	P	0 - 39
2447011	Myclobutanil	14.7	Spike	P	0 - 34
2447011	Naled	8.57	Spike	P	0 - 37
2447011	Napropamide	1.66	Spike	P	0 - 100

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P436999

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2447011	Norflurazon	3.77	Spike	P	0 - 54
2447011	Octinoxate	1.28	Spike	P	0 - 35
2447011	Oxadiazon	4.48	Spike	P	0 - 34
2447011	Oxybenzone	3.67	Spike	P	0 - 35
2447011	Oxyfluorfen	12.4	Spike	P	0 - 28
2447011	Parathion Ethyl	16.7	Spike	P	0 - 31
2447011	Parathion Methyl	14.0	Spike	P	0 - 29
2447011	PBB-153	18.4	Spike	P	0 - 49
2447011	PBDE-47	11.1	Spike	P	0 - 36
2447011	PBDE-99	10.5	Spike	P	0 - 46
2447011	Pendimethalin	13.9	Spike	P	0 - 31
2447011	Pentabromotoluene	1.70	Spike	P	0 - 16
2447011	Phenytoin	26.5	Spike	P	0 - 100
2447011	Phorate	0.788	Spike	P	0 - 36
2447011	Prodiamine	0.405	Spike	P	0 - 68
2447011	Prometon	12.2	Spike	P	0 - 35
2447011	Prometryn	7.83	Spike	P	0 - 33
2447011	Pronamide	6.54	Spike	P	0 - 24
2447011	Propanil	14.2	Spike	P	0 - 28
2447011	Propargite	6.86	Spike	P	0 - 53
2447011	Propiconazole	14.1	Spike	P	0 - 44
2447011	Pyraflufen Ethyl	5.88	Spike	P	0 - 61
2447011	Pyridaben	16.9	Spike	P	0 - 43
2447011	Pyriproxyfen	15.4	Spike	P	0 - 82
2447011	Simazine	6.38	Spike	P	0 - 29
2447011	Stirophos	6.16	Spike	P	0 - 100
2447011	Sulfentrazone	6.80	Spike	P	0 - 64
2447011	Tebuconazole	8.33	Spike	P	0 - 76
2447011	Terbufos	6.30	Spike	P	0 - 29
2447011	Terbutylazine	17.2	Spike	P	0 - 28
2447011	Tetradecachloro-m-terphenyl	28.1	Spike	P	0 - 42
2447011	Thiobencarb	14.0	Spike	P	0 - 26
2447011	Tri-o-cresyl Phosphate	12.7	Spike	P	0 - 24
2447011	Triadimefon	14.7	Spike	P	0 - 40
2447011	Tris(1-chloro-2-propyl) phosphate (TCPP)	8.57	Spike	P	0 - 30
2447011	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	12.8	Spike	P	0 - 22
2447011	Tris(2-chloroethyl) phosphate (TCEP)	15.4	Spike	F	0 - 15

Reference Method: EPA 8270E

Batch ID: P437103

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2447115	Aldrin	11.9	Spike	P	0 - 41
2447115	Alpha-BHC	9.78	Spike	P	0 - 25
2447115	Alpha-Chlordane	25.2	Spike	P	0 - 32
2447115	Beta-BHC	22.0	Spike	P	0 - 33
2447115	Beta-Cyfluthrin	0.699	Spike	P	0 - 43
2447115	Bifenthrin	26.4	Spike	P	0 - 52
2447115	Carbophenothion	6.22	Spike	P	0 - 30
2447115	Chlorothalonil	64.1	Spike	P	0 - 82

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P437103

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2447115	Cis-Nonachlor	9.27	Spike	P	0 - 33
2447115	Cypermethrin	10.8	Spike	P	0 - 51
2447115	Dacthal	0.241	Spike	P	0 - 27
2447115	DDD-p,p'	5.25	Spike	P	0 - 39
2447115	DDE-p,p'	20.6	Spike	P	0 - 31
2447115	DDT-p,p'	7.13	Spike	P	0 - 29
2447115	Delta-BHC	3.76	Spike	P	0 - 35
2447115	Deltamethrin	0.0514	Spike	P	0 - 100
2447115	Dichlobenil	25.9	Spike	P	0 - 40
2447115	Dicofol	22.1	Spike	P	0 - 37
2447115	Dieldrin	4.04	Spike	P	0 - 27
2447115	Endosulfan I	11.7	Spike	P	0 - 23
2447115	Endosulfan II	1.57	Spike	P	0 - 34
2447115	Endosulfan Sulfate	15.2	Spike	P	0 - 36
2447115	Endrin	9.21	Spike	P	0 - 45
2447115	Endrin Aldehyde	79.9	Spike	F	0 - 76
2447115	Endrin Ketone	1.12	Spike	P	0 - 43
2447115	Esfenvalerate	10.6	Spike	P	0 - 51
2447115	Ethalfuralin	21.3	Spike	P	0 - 22
2447115	Fenpropathrin	27.9	Spike	P	0 - 49
2447115	Gamma-BHC	20.8	Spike	P	0 - 28
2447115	Gamma-Chlordane	18.2	Spike	P	0 - 40
2447115	Heptachlor	6.33	Spike	P	0 - 29
2447115	Heptachlor Epoxide	17.3	Spike	P	0 - 33
2447115	Hexachlorobenzene	32.7	Spike	P	0 - 36
2447115	Kepone	22.1	Spike	P	0 - 85
2447115	Lambda-Cyhalothrin	9.87	Spike	P	0 - 55
2447115	Methoprene	10.9	Spike	P	0 - 53
2447115	Methoxychlor	2.94	Spike	P	0 - 50
2447115	MGK-264	0.677	Spike	P	0 - 43
2447115	Mirex	13.2	Spike	P	0 - 40
2447115	Oxychlordane	8.04	Spike	P	0 - 31
2447115	Permethrin	10.4	Spike	P	0 - 50
2447115	Phenothrin	26.0	Spike	P	0 - 58
2447115	Piperonyl Butoxide	28.4	Spike	P	0 - 100
2447115	Prallethrin	1.05	Spike	P	0 - 39
2447115	Tau-Fluvalinate	5.90	Spike	P	0 - 54
2447115	Tetramethrin	16.6	Spike	P	0 - 51
2447115	Trans-Nonachlor	16.8	Spike	P	0 - 39
2447115	Triclosan Methyl	6.29	Spike	P	0 - 31
2447115	Trifluralin	21.9	Spike	P	0 - 22
2447123	PCB-1016	4.27	Spike	P	0 - 25
2447123	PCB-1260	8.99	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P437103

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2447123	Chlordane	1.98	Spike	P	0 - 28
2447123	Toxaphene	3.80	Spike	P	0 - 27

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P436913

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446686	3-Hydroxycarbofuran	3.70	Spike	P	0 - 30
2446686	Aldicarb	1.53	Spike	P	0 - 30
2446686	Aldicarb Sulfone	2.60	Spike	P	0 - 30
2446686	Aldicarb Sulfoxide	6.81	Spike	P	0 - 30
2446686	Carbaryl	5.98	Spike	P	0 - 30
2446686	Carbofuran	2.55	Spike	P	0 - 30
2446686	Methiocarb	2.83	Spike	P	0 - 30
2446686	Methomyl	3.03	Spike	P	0 - 30
2446686	Oxamyl	2.34	Spike	P	0 - 30
2446686	Propoxur	1.24	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P436963

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446847	2,4-D	6.01	Spike	P	0 - 30
2446847	2,4,5-T	4.11	Spike	P	0 - 30
2446847	Acetaminophen	2.87	Spike	P	0 - 30
2446847	Acetamiprid	11.8	Spike	P	0 - 30
2446847	Afidopyropen	4.42	Spike	P	0 - 30
2446847	Bentazon	3.35	Spike	P	0 - 30
2446847	Benzovindiflupyr	2.75	Spike	P	0 - 30
2446847	Carbamazepine	2.69	Spike	P	0 - 30
2446847	Clothianidin	1.26	Spike	P	0 - 30
2446847	Dinotefuran	0.516	Spike	P	0 - 30
2446847	Diuron	8.08	Spike	P	0 - 30
2446847	Fenuron	4.37	Spike	P	0 - 30
2446847	Fluridone	0.209	Spike	P	0 - 30
2446847	Hydrocodone	2.52	Spike	P	0 - 30
2446847	Ibuprofen	4.80	Spike	P	0 - 30
2446847	Imazapyr	5.51	Spike	P	0 - 30
2446847	Imidacloprid	2.94	Spike	P	0 - 30
2446847	Linuron	1.98	Spike	P	0 - 30
2446847	Mandestrobin	1.19	Spike	P	0 - 30
2446847	MCPP	6.39	Spike	P	0 - 30
2446847	Naproxen	9.55	Spike	P	0 - 30
2446847	Primidone	2.87	Spike	P	0 - 30
2446847	Pyraclostrobin	5.94	Spike	P	0 - 30
2446847	Silvex	8.42	Spike	P	0 - 30
2446847	Thiamethoxam	3.31	Spike	P	0 - 30
2446847	Tolfenpyrad	17.2	Spike	P	0 - 30
2446847	Triclopyr	7.65	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P436970

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446847	Acesulfame K	0.773	Spike	P	0 - 30
2446847	AMPA	7.98	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
 Batch ID: P436970

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446847	Endothall	4.48	Spike	P	0 - 30
2446847	Glufosinate	3.24	Spike	P	0 - 30
2446847	Glyphosate	0.0289	Spike	P	0 - 30
2446847	Sucralose	4.62	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
 Batch ID: P437314

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2447072	Total Alkalinity	1.41	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
 Batch ID: P437390

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446954	TDS	4.70	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
 Batch ID: P437316

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2447072	Fluoride	0.477	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
 Batch ID: P437225

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2447193	Organic Carbon	0.227	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2447110
Field Sample ID: 21030071

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	41.0	P	30 - 160

Lab Sample ID: 2447111
Field Sample ID: 21030071

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	73.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	70.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	47.9	P	30 - 160
EPA 8321B	Diuron-d6	35.2	P	30 - 160
EPA 8321B	Endothall-d6	102	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	79.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	67.3	P	30 - 160
EPA 8321B	Primidone-d5	37.9	P	30 - 160
EPA 8321B	Sucralose-d6	95.5	P	30 - 160

Lab Sample ID: 2447112
Field Sample ID: 21030071

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	81.2	P	37 - 129
EPA 8270E	Decachlorobiphenyl	40.7	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	38.0	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	49.4	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	48.2	P	28 - 102
EPA 8276	PCNB	109	P	49 - 115

Lab Sample ID: 2447113
Field Sample ID: 21030071

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	77.2	P	20 - 200
EPA 8270E	Simazine-d10	95.7	P	58 - 137
EPA 8270E	Terbufos-d10	101	P	50 - 134
EPA 8270E	Terphenyl-d14	116	P	44 - 134

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A122354

Included Lab Sample IDs: 2447103

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: A122356

Included Lab Sample IDs: 2447103

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	99.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A122399

Included Lab Sample IDs: 2447104

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	99.7	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A122415

Included Lab Sample IDs: 2447111

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	101	98.9	P/P	60 - 160
Endothall	91.7	87.4	P/P	60 - 160
Glufosinate	96.8	89.9	P/P	60 - 160
Glyphosate	96.4	90.3	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A122422

Included Lab Sample IDs: 2447111

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	152	152	P/P	60 - 160
Sucralose	110	115	P/P	60 - 160

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A122432

Included Lab Sample IDs: 2447104

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.7	94.7	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A122437

Included Lab Sample IDs: 2447111

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	82.3	81.1	P/P	50 - 150
2,4,5-T	85.3	92.1	P/P	50 - 150
3-Hydroxycarbofuran	104	99.9	P/P	60 - 150
Acetaminophen	122	123	P/P	60 - 160
Acetamiprid	105	107	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A122437
Included Lab Sample IDs: 2447111

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Afidopyropen	97.1	102	P/P	50 - 150
Aldicarb	97.3	100	P/P	60 - 150
Aldicarb Sulfone	103	103	P/P	50 - 150
Aldicarb Sulfoxide	116	113	P/P	50 - 150
Bentazon	103	103	P/P	50 - 160
Benzovindiflupyr	106	108	P/P	50 - 150
Carbamazepine	100	104	P/P	60 - 150
Carbaryl	93.6	99.3	P/P	60 - 150
Carbofuran	109	104	P/P	50 - 150
Clothianidin	108	104	P/P	60 - 150
Dinotefuran	103	108	P/P	50 - 150
Diuron	110	111	P/P	60 - 160
Fenuron	109	109	P/P	60 - 150
Fluridone	113	112	P/P	60 - 160
Hydrocodone	113	114	P/P	60 - 150
Ibuprofen	76.6	75.5	P/P	50 - 160
Imazapyr	83.1	84.4	P/P	50 - 150
Imidacloprid	100	99.6	P/P	60 - 150
Linuron	105	90.3	P/P	60 - 150
Mandestrobin	106	104	P/P	50 - 150
MCPP	85.1	87.7	P/P	50 - 150
Methiocarb	105	101	P/P	50 - 150
Methomyl	106	97.0	P/P	50 - 150
Naproxen	100	66.1	P/P	50 - 160
Oxamyl	102	99.0	P/P	50 - 150
Primidone	99.1	103	P/P	60 - 150
Propoxur	116	107	P/P	50 - 150
Pyraclostrobin	105	109	P/P	60 - 150
Silvex	75.3	73.9	P/P	50 - 150
Thiamethoxam	108	109	P/P	50 - 150
Tolfenpyrad	97.4	97.2	P/P	60 - 150
Triclopyr	90.0	92.5	P/P	50 - 150

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A122439
Included Lab Sample IDs: 2447104

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.0	98.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A122447
Included Lab Sample IDs: 2447104

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A122477

Included Lab Sample IDs: 2447117

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	103	104	P/P	90 - 110
Iron	102	102	P/P	90 - 110
Magnesium	102	102	P/P	90 - 110
Potassium	102	99.5	P/P	90 - 110
Sodium	101	101	P/P	90 - 110
Strontium	98.2	98.7	P/P	90 - 110
Tin	99.8	100	P/P	90 - 110
Titanium	101	101	P/P	90 - 110
Vanadium	99.6	99.9	P/P	90 - 110
Zinc	99.4	99.5	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A122481

Included Lab Sample IDs: 2447104

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.4	98.3	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A122498

Included Lab Sample IDs: 2447117

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	102	97.9	P/P	90 - 110
Antimony	98.7	97.7	P/P	90 - 110
Arsenic	96.0	95.7	P/P	90 - 110
Barium	98.8	99.2	P/P	90 - 110
Beryllium	99.1	96.8	P/P	90 - 110
Boron	104	102	P/P	90 - 110
Cadmium	102	101	P/P	90 - 110
Chromium	102	102	P/P	90 - 110
Cobalt	94.6	94.4	P/P	90 - 110
Copper	93.1	92.6	P/P	90 - 110
Lead	94.2	94.4	P/P	90 - 110
Manganese	102	102	P/P	90 - 110
Molybdenum	98.2	97.5	P/P	90 - 110
Nickel	93.6	93.1	P/P	90 - 110
Selenium	98.7	99.7	P/P	90 - 110
Silver	99.5	99.4	P/P	90 - 110
Thallium	98.4	99.0	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A122517

Included Lab Sample IDs: 2447113

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	90.4		P	80 - 120
Avobenzene	94.2		P	80 - 120
Dechlorane 602	82.7		P	80 - 120
Dechlorane 603	103		P	80 - 120
Dechlorane Plus	114		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122517
Included Lab Sample IDs: 2447113

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Hexabromobenzene	90.9		P	80 - 120
Octinoxate	98.5		P	80 - 120
Oxybenzone	97.6		P	80 - 120
PBB-153	106		P	80 - 120
PBDE-47	91.7		P	80 - 120
PBDE-99	89.5		P	80 - 120
Pentabromotoluene	97.5		P	80 - 120
Tetradecachloro-m-terphenyl	127*		F	80 - 120
Tri-o-cresyl Phosphate	95.6		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	96.9		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	98.9		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	108		P	80 - 120

Reference Method: SM 2320 B-2011
Run ID: A122537
Included Lab Sample IDs: 2447103

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.0	95.8	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A122537
Included Lab Sample IDs: 2447103

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

Reference Method: EPA 8270E
Run ID: A122543
Included Lab Sample IDs: 2447113

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	95.6		P	80 - 120
Alachlor	97.5		P	80 - 120
Ametryn	94.2		P	80 - 120
Atrazine	101		P	80 - 120
Atrazine Desethyl	111		P	80 - 120
Azinphos Methyl	95.7		P	80 - 120
Azoxystrobin	96.9		P	80 - 120
Bromacil	98.1		P	80 - 120
Butylate	93.0		P	80 - 120
Caffeine	98.8		P	80 - 120
Carbophenothion	87.2		P	80 - 120
Carfentrazone Ethyl	85.9		P	80 - 120
Chlorfenapyr	91.6		P	80 - 120
Chlorpyrifos Ethyl	96.3		P	80 - 120
Chlorpyrifos Methyl	102		P	80 - 120
Coumaphos	109		P	80 - 120
Cyanazine	107		P	80 - 120
Cyprodinil	99.7		P	80 - 120
Demeton	109		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A122543
 Included Lab Sample IDs: 2447113

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Diazinon	104		P	80 - 120
Difenoconazole	106		P	80 - 120
Dimethenamid	94.3		P	80 - 120
Dimethomorph	96.5		P	80 - 120
Disulfoton	100		P	80 - 120
Dithiopyr	121*		F	80 - 120
EPTC	98.7		P	80 - 120
Ethion	99.1		P	80 - 120
Ethoprop	97.7		P	80 - 120
Etridiazole	100		P	80 - 120
Fenamiphos	94.7		P	80 - 120
Fenbuconazole	105		P	80 - 120
Fipronil	92.9		P	80 - 120
Fipronil Desulfinyl	92.5		P	80 - 120
Fipronil Sulfide	95.6		P	80 - 120
Fipronil Sulfone	82.5		P	80 - 120
Fluazifop-P-butyl	87.4		P	80 - 120
Fludioxonil	83.1		P	80 - 120
Flumioxazin	97.9		P	80 - 120
Flutolanil	89.6		P	80 - 120
Fluxapyroxad	96.7		P	80 - 120
Fonofos	88.7		P	80 - 120
Hexazinone	99.4		P	80 - 120
Imazalil	90.4		P	80 - 120
Iprodione	82.8		P	80 - 120
Loratadine	91.5		P	80 - 120
Malathion	101		P	80 - 120
Metaxyl	102		P	80 - 120
Metolachlor	107		P	80 - 120
Metribuzin	104		P	80 - 120
Mevinphos	94.5		P	80 - 120
Molinate	103		P	80 - 120
Myclobutanil	92.8		P	80 - 120
Naled	112		P	80 - 120
Napropamide	82.7		P	80 - 120
Norflurazon	89.3		P	80 - 120
Oxadiazon	89.0		P	80 - 120
Oxyfluorfen	90.9		P	80 - 120
Parathion Ethyl	95.1		P	80 - 120
Parathion Methyl	105		P	80 - 120
Pendimethalin	92.0		P	80 - 120
Phenytoin	90.8		P	80 - 120
Phorate	115		P	80 - 120
Prodiamine	102		P	80 - 120
Prometon	94.4		P	80 - 120
Prometryn	105		P	80 - 120
Pronamide	98.4		P	80 - 120
Propanil	111		P	80 - 120
Propargite	91.2		P	80 - 120
Propiconazole	89.8		P	80 - 120
Pyraflufen Ethyl	93.7		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122543
Included Lab Sample IDs: 2447113

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyridaben	109		P	80 - 120
Pyriproxyfen	100		P	80 - 120
Simazine	111		P	80 - 120
Stirophos	109		P	80 - 120
Sulfentrazone	86.6		P	80 - 120
Tebuconazole	90.7		P	80 - 120
Terbufos	106		P	80 - 120
Terbutylazine	107		P	80 - 120
Thiobencarb	98.1		P	80 - 120
Triadimefon	108		P	80 - 120

Reference Method: EPA 8276
Run ID: A122571
Included Lab Sample IDs: 2447112

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	103		P	80 - 120
Toxaphene	105		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A122610
Included Lab Sample IDs: 2447103

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.9	101	P/P	90 - 110
Sulfate	99.5	101	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A122621
Included Lab Sample IDs: 2447112

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	112		P	80 - 120
Alpha-BHC	98.3		P	80 - 120
Alpha-Chlordane	95.9		P	80 - 120
Beta-BHC	101		P	80 - 120
Beta-Cyfluthrin	108		P	80 - 120
Bifenthrin	96.8		P	80 - 120
Carbophenothion	82.0		P	80 - 120
Chlorothalonil	97.4		P	80 - 120
Cis-Nonachlor	85.9		P	80 - 120
Cypermethrin	98.8		P	80 - 120
Dacthal	116		P	80 - 120
DDD-p,p'	93.9		P	80 - 120
DDE-p,p'	99.9		P	80 - 120
DDT-p,p'	112		P	80 - 120
Delta-BHC	98.0		P	80 - 120
Deltamethrin	93.2		P	80 - 120
Dichlobenil	105		P	80 - 120
Dieldrin	91.8		P	80 - 120
Endosulfan I	98.7		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122621
Included Lab Sample IDs: 2447112

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endosulfan II	111		P	80 - 120
Endosulfan Sulfate	112		P	80 - 120
Endrin	83.1		P	80 - 120
Endrin Aldehyde	91.8		P	80 - 120
Endrin Ketone	82.9		P	80 - 120
Esfenvalerate	117		P	80 - 120
Ethalfuralin	105		P	80 - 120
Fenpropathrin	88.5		P	80 - 120
Gamma-BHC	101		P	80 - 120
Heptachlor	90.6		P	80 - 120
Heptachlor Epoxide	103		P	80 - 120
Hexachlorobenzene	108		P	80 - 120
Lambda-Cyhalothrin	117		P	80 - 120
Methoprene	94.5		P	80 - 120
MGK-264	110		P	80 - 120
Mirex	116		P	80 - 120
Oxychlordane	102		P	80 - 120
Permethrin	118		P	80 - 120
Phenothrin	120		P	80 - 120
Piperonyl Butoxide	103		P	80 - 120
Prallethrin	102		P	80 - 120
Tau-Fluvalinate	113		P	80 - 120
Tetramethrin	90.3		P	80 - 120
Trans-Nonachlor	96.6		P	80 - 120
Triclosan Methyl	90.0		P	80 - 120
Trifluralin	96.7		P	80 - 120

Reference Method: EPA 8270E
Run ID: A122623
Included Lab Sample IDs: 2447112

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dicofol	98.6		P	80 - 120
Gamma-Chlordane	107		P	80 - 120
Kepone	99.0		P	80 - 120
Methoxychlor	100		P	80 - 120

Reference Method: EPA 8270E
Run ID: A122685
Included Lab Sample IDs: 2447112

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	100		P	80 - 120
PCB-1260	108		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	101						1.57	
EPA 180.1 Rev. 2.0	Turbidity	104						19.1	
EPA 200.7 Rev. 4.4	Calcium	106		102	98.7				0.333
	Iron	112		110	109	109			0.731
	Magnesium	105		103	103				0.573
	Potassium	103		102	101	102			0.824
	Sodium	107		106	105	106			0.284
	Strontium	99.9		98.2	97.4	98.0			0.749
	Tin	98.7		95.5	95.4	95.2			0.0875
	Titanium	102		101	101	101			0.0360
	Vanadium	101		99.5	99.5	100			0.0142
	Zinc	98.2		94.0	94.0	97.5			0.0037
EPA 200.8 Rev. 5.4	Aluminum	99.3		96.7	96.6	97.7			1.12
	Antimony	97.3		99.5	98.0	99.5			1.42
	Arsenic	97.1		95.8	96.3	98.9			2.62
	Barium	101		99.7	100	101			0.792
	Beryllium	93.8		94.9	94.0	93.9			0.176
	Boron	102		105	101	104			2.46
	Cadmium	100		101	99.7	101			1.48
	Chromium	98.9		98.8	99.2	100			1.02
	Cobalt	95.2		92.4	91.3	93.1			2.00
	Copper	93.9		89.0	91.4	92.3			1.02
	Lead	91.9		93.2	90.6	92.8			2.41
	Manganese	98.8		96.1	97.7	99.6			1.91
	Molybdenum	96.9		98.8	97.2	100			2.64
	Nickel	93.6		90.4	89.7	91.2			1.68
	Selenium	99.2		96.5	97.3	98.0			0.691
	Silver	105		105	105	106			1.23
	Thallium	96.1		100	97.4	100			2.80
EPA 300.0 Rev. 2.1	Chloride	101		102	102			1.72	
	Sulfate	101		102	100			1.84	
EPA 350.1 Rev. 2.0	Ammonia-N	99.2		96.2	98.8				2.37
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102		106	101				2.67
EPA 353.2 Rev. 2.0	NO2NO3-N	99.0		95.5	97.5				1.18
EPA 365.1 Rev. 2.0	Total-P	106		107	108				1.09
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	89.3		85.1	95.7				11.8
	Acetochlor	100		111	99.5				10.7
	Alachlor	96.2		88.6	91.8				3.49
	Aldrin	69.0		52.9	59.5				11.9
	Alpha-BHC	87.7		78.0	86.1				9.78
	Alpha-Chlordane	76.5		55.5	76.1				25.2
	Ametryn	98.5		77.1	77.0				0.0630
	Atrazine	98.0							3.04
	Atrazine Desethyl	81.2		71.3	71.7				0.347
	Avobenzone	130		117	124				6.00
	Azinphos Methyl	165		176	185				5.15
	Azoxystrobin	105		99.5	102				2.80
	Beta-BHC	129		125	157				22.0
	Beta-Cyfluthrin	92.3		75.7	76.2				0.699
	Bifenthrin	65.0		60.5	78.9				26.4
	Bromacil	70.6		67.2	67.6				0.590
	Butylate	55.1		63.8	54.9				14.9

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Caffeine	96.7	100	93.8		6.80
	Carbophenothion	111	121	131		7.44
	Carbophenothion	60.7	64.9	69.1		6.22
	Carfentrazone Ethyl	113	121	149		20.5
	Chlorfenapyr	67.6	75.6	82.9		9.19
	Chlorothalonil	56.9	121	62.4		64.1
	Chlorpyrifos Ethyl	76.9	75.4	66.9		11.9
	Chlorpyrifos Methyl	80.6	68.8	81.1		16.4
	Cis-Nonachlor	70.2	64.3	70.6		9.27
	Coumaphos	146	112	162		36.5
	Cyanazine	149	168	133		22.9
	Cypermethrin	61.8	66.6	59.8		10.8
	Cyprodinil	116	116	115		1.06
	Dacthal	109	102	102		0.241
	DDD-p,p'	76.7	71.5	75.4		5.25
	DDE-p,p'	104	89.0	109		20.6
	DDT-p,p'	66.3	68.1	73.1		7.13
	Dechlorane 602	49.9	49.5	55.0		10.5
	Dechlorane 603	120	88.3	101		13.1
	Dechlorane Plus	98.5	76.6	77.1		0.655
	Delta-BHC	113	136	131		3.76
	Deltamethrin	73.9	78.2	78.3		0.0514
	Demeton	103	134	129		3.80
	Diazinon	98.4	101	91.6		10.2
	Dichlobenil	105	63.7	82.7		25.9
	Dicofol	93.9	72.8	90.9		22.1
	Dieldrin	73.9	70.7	74.9		4.04
	Difenoconazole	99.8	85.2	63.2		29.7
	Dimethenamid	85.5	97.8	90.7		7.52
	Dimethomorph	110	101	100		0.452
	Disulfoton	79.6	68.0	73.4		7.62
	Dithiopyr	89.1	99.2	87.4		12.6
	Endosulfan I	93.4	92.3	104		11.7
	Endosulfan II	112	93.1	94.6		1.57
	Endosulfan Sulfate	93.4	85.7	99.8		15.2
	Endrin	73.0	69.9	76.7		9.21
	Endrin Aldehyde	95.5	35.1	81.8		79.9
	Endrin Ketone	98.9	97.8	98.9		1.12
	EPTC	60.8	65.3	58.0		11.8
	Esfenvalerate	104	117	130		10.6
	Ethalfuralin	78.0	63.9	79.1		21.3
	Ethion	67.8	106	96.4		9.78
	Ethoprop	85.9	93.2	88.1		5.68
	Etridiazole	72.8	75.1	92.8		21.1
	Fenamiphos	75.6	82.1	76.3		7.33
	Fenbuconazole	77.1	107	85.3		22.7
	Fenpropathrin	63.1	58.4	77.3		27.9
	Fipronil	82.7	84.9	83.9		1.25
	Fipronil Desulfinyl	60.7	47.5	49.5		2.78
	Fipronil Sulfide	74.5	76.2	64.4		13.9
	Fipronil Sulfone	72.2	85.8	70.3		11.4
	Fluazifop-P-butyl	59.7	75.6	70.3		7.16
	Fludioxonil	62.7	77.4	78.6		1.66
	Flumioxazin	98.0	65.8	97.2		38.5

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Flutolanil	67.6	121	113			7.03
	Fluxapyroxad	147	465	422			9.80
	Fonofos	85.3	74.5	70.5			5.51
	Gamma-BHC	100	97.3	120			20.8
	Gamma-Chlordane	98.3	92.3	111			18.2
	Heptachlor	86.1	87.4	93.1			6.33
	Heptachlor Epoxide	100	62.9	85.4			17.3
	Hexabromobenzene	114	111	119			6.74
	Hexachlorobenzene	84.3	50.1	69.7			32.7
	Hexazinone	92.0	92.5	92.1			0.355
	Imazalil	66.7	90.4	71.8			22.9
	Iprodione	122	156	124			23.1
	Kepone	134	80.5	115			22.1
	Lambda-Cyhalothrin	90.4	69.4	76.6			9.87
	Loratadine	206	267	206			25.6
	Malathion	129	128	152			17.1
	Metalaxyl	84.5	96.4	92.1			4.52
	Methoprene	67.8	80.5	72.2			10.9
	Methoxychlor	108	101	104			2.94
	Metolachlor	97.3	99.1	111			10.9
	Metribuzin	98.3	90.6	100			10.2
	Mevinphos	84.6	79.3	79.4			0.0502
	MGK-264	116	119	118			0.677
	Mirex	86.3	76.9	87.8			13.2
	Molinate	70.4	72.1	83.7			15.0
	Myclobutanil	100	111	129			14.7
	Naled	69.1	72.4	78.9			8.57
	Napropamide	50.7	58.5	59.5			1.66
	Norflurazon	106	125	120			3.77
	Octinoxate	119	106	108			1.28
	Oxadiazon	57.8					4.48
	Oxybenzone	131	107	111			3.67
	Oxychlordane	78.2	84.7	91.8			8.04
	Oxyfluorfen	94.6	119	135			12.4
	Parathion Ethyl	102	95.3	113			16.7
	Parathion Methyl	109	152	132			14.0
	PBB-153	136	105	126			18.4
	PBDE-47	96.0	93.9	105			11.1
	PBDE-99	78.2	71.7	79.7			10.5
	PCB-1016	106	105	100			4.27
	PCB-1260	109	76.5	69.9			8.99
	Pendimethalin	92.6	104	90.2			13.9
	Pentabromotoluene	102	97.7	99.4			1.70
	Permethrin	101	67.6	75.0			10.4
	Phenothrin	77.6	58.5	76.0			26.0
	Phenytoin	19.8	52.3	40.1			26.5
	Phorate	126	124	125			0.788
	Piperonyl Butoxide	135	76.4	105			28.4
	Prallethrin	97.3	95.4	94.4			1.05
	Prodiamine	84.2	105	106			0.405
	Prometon	144	120	135			12.2
	Prometryn	120	118	128			7.83
	Pronamide	116	110	117			6.54
	Propanil	110	96.3	111			14.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Propargite	78.3	102	95.2		6.86
	Propiconazole	79.7	97.8	84.9		14.1
	Pyraflufen Ethyl	122	134	127		5.88
	Pyridaben	156	166	140		16.9
	Pyriproxyfen	115	148	127		15.4
	Simazine	110	94.7	104		6.38
	Stirophos	32.0	26.4	28.0		6.16
	Sulfentrazone	59.4				6.80
	Tau-Fluvalinate	88.6	99.9	106		5.90
	Tebuconazole	73.4	100	92.0		8.33
	Terbufos	104	84.0	89.4		6.30
	Terbutylazine	108	89.4	106		17.2
	Tetradecachloro-m-terphenyl	193	176	132		28.1
	Tetramethrin	79.3	77.3	91.3		16.6
	Thiobencarb	104	98.9	114		14.0
	Trans-Nonachlor	87.1	75.8	89.7		16.8
	Tri-o-cresyl Phosphate	118	95.8	109		12.7
	Triadimefon	84.3	80.5	93.3		14.7
	Triclosan Methyl	76.3	76.1	71.5		6.29
	Trifluralin	82.6	64.3	80.1		21.9
	Tris(1-chloro-2-propyl) phosphate (TCPP)	70.8	112	126		8.57
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	53.5	82.8	94.1		12.8
	Tris(2-chloroethyl) phosphate (TCEP)	53.4	74.4	86.8		15.4
EPA 8276	Chlordane	69.6	75.2	73.7		1.98
	Toxaphene	78.9	88.8	85.5		3.80
EPA 8321B	2,4-D	73.3	105	111		6.01
	2,4,5-T	64.9	105	109		4.11
	3-Hydroxycarbofuran	75.8	44.5	42.9		3.70
	Acesulfame K	101	144	146		0.773
	Acetaminophen	91.5	142	147		2.87
	Acetamiprid	80.3	76.6	86.2		11.8
	Afidopyropen	71.6	72.9	76.2		4.42
	Aldicarb	50.6	28.9	29.4		1.53
	Aldicarb Sulfone	90.8	53.5	54.9		2.60
	Aldicarb Sulfoxide	123	21.1	22.6		6.81
	AMPA	98.8	80.9	87.6		7.98
	Bentazon	94.4	73.4	77.0		3.35
	Benzovindiflupyr	78.5	83.5	85.8		2.75
	Carbamazepine	79.7	77.7	75.7		2.69
	Carbaryl	68.5	33.0	35.0		5.98
	Carbofuran	73.1	33.8	34.7		2.55
	Clothianidin	83.6	109	111		1.26
	Dinotefuran	88.2	105	104		0.516
	Diuron	72.8	62.1	67.3		8.08
	Endothall	94.2	93.2	97.4		4.48
	Fenuron	88.5	65.7	68.6		4.37
	Fluridone	81.1	72.7	72.8		0.209
	Glufosinate	95.5	83.3	86.0		3.24
	Glyphosate	94.9	77.4	77.4		0.0289
	Hydrocodone	93.5	94.6	97.0		2.52
	Ibuprofen	58.9	67.2	70.5		4.80

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 8321B	Imazapyr	75.2	101	106		5.51
	Imidacloprid	78.4	137	141		2.94
	Linuron	71.7	72.8	71.4		1.98
	Mandestrobin	85.2	88.2	89.3		1.19
	MCCP	75.0	102	109		6.39
	Methiocarb	65.1	55.8	54.2		2.83
	Methomyl	80.7	24.7	25.5		3.03
	Naproxen	60.1	69.8	63.5		9.55
	Oxamyl	87.8	41.9	40.9		2.34
	Primidone	87.6	91.1	88.5		2.87
	Propoxur	73.3	32.5	32.9		1.24
	Pyraclostrobin	77.8	83.3	88.4		5.94
	Silvex	72.0	96.7	105		8.42
	Sucralose	98.0	116	111		4.62
	Thiamethoxam	82.3	116	120		3.31
	Tolfenpyrad	49.2	53.2	63.3		17.2
	Triclopyr	79.8	113	122		7.65
SM 2320 B-2011	Total Alkalinity	100				1.41
SM 2540 C-2015	TDS	93.2				4.70
SM 2540 D-2015	TSS	94.4				
SM 4500-F- C-2011	Fluoride	99.6				0.477
SM 5310 B-2011	Organic Carbon	94.8	94.5	94.9		0.227

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2447103
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2447103
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2447117
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2447117
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2447103
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2447103
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2447104
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2447104
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2447104
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2447104
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2447113
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2447112
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2447113
EPA 8270E	PCBs in water matrices by GC/MS/MS	2447112
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2447112
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2447110
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2447111
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2447103
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2447117
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2447103
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2447103
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2447103
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2447104

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	10/25/2023			10/25/2023 14:25	Anna M. Plaviak	2447103
EPA 180.1 Rev. 2.0	10/25/2023			10/25/2023 14:42	Khloe J Berg	2447103
EPA 200.7 Rev. 4.4	10/25/2023	10/27/2023 13:55	George D Taylor	10/31/2023 16:45	Chase Roberts	2447117
EPA 200.8 Rev. 5.4	10/25/2023	10/27/2023 13:55	George D Taylor	11/01/2023 18:59	Conrad Hartmann	2447117
EPA 300.0 Rev. 2.1	10/25/2023			11/07/2023 02:35	James L Waggeberby	2447103
EPA 350.1 Rev. 2.0	10/25/2023			10/30/2023 12:55	Ping Hua	2447104
EPA 351.2 Rev. 2.0	10/25/2023	10/27/2023 09:39	Samantha L Bates	10/30/2023 10:16	Samantha L Bates	2447104
EPA 353.2 Rev. 2.0	10/25/2023			10/30/2023 15:44	Anna M. Plaviak	2447104
EPA 365.1 Rev. 2.0	10/25/2023	10/26/2023 12:20	Adam P Silver	10/27/2023 09:07	Simonne.V. Calhoun	2447104
EPA 8270E	10/25/2023	10/30/2023 07:00	Fe-Val Siddell	11/01/2023 23:23	Arthur Maknenko	2447113
	10/25/2023	10/30/2023 07:00	Fe-Val Siddell	11/02/2023 20:39	Vandana T. Nagar	2447113
	10/25/2023	10/31/2023 08:00	Fe-Val Siddell	11/06/2023 07:22	Julie Wi	2447112
	10/25/2023	10/31/2023 08:00	Fe-Val Siddell	11/08/2023 03:10	Julie Wi	2447112
	10/25/2023	10/31/2023 08:00	Fe-Val Siddell	11/10/2023 03:01	Lipi Saha	2447112
EPA 8276	10/25/2023	10/31/2023 08:00	Fe-Val Siddell	11/03/2023 08:35	Arthur Maknenko	2447112
EPA 8321B	10/25/2023	10/26/2023 09:00	Hoor Shaik	10/27/2023 21:25	Juyoung Kim	2447111
	10/25/2023	10/26/2023 09:30	Hana Lee	10/26/2023 14:58	Tae K Lee	2447111
	10/25/2023	10/26/2023 09:30	Hana Lee	10/27/2023 16:22	Tae K Lee	2447111
	10/25/2023	10/27/2023 13:00	Hoor Shaik	10/28/2023 02:46	Juyoung Kim	2447110
SM 2320 B-2011	10/25/2023			11/02/2023 21:12	Dale L. Simmons	2447103
SM 2340 B-2011	10/25/2023			10/31/2023 16:45	Chase Roberts	2447117
SM 2540 C-2015	10/25/2023			10/27/2023 16:33	Yijie Li	2447103
SM 2540 D-2015	10/25/2023			10/27/2023 16:33	Yijie Li	2447103
SM 4500-F- C-2011	10/25/2023			11/02/2023 21:12	Dale L. Simmons	2447103
SM 5310 B-2011	10/25/2023			10/31/2023 20:35	Elise M. Gillis	2447104