

Chemical Analysis Report

NE-DIST-2023-08-22-01

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

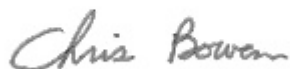
Event Description: **Di water check-NE ROC**
Request ID: **RQ-2023-08-21-63**
Customer: **NE-DIST**
Project ID: **DISCRTNARY**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Jacksonville, FL 32256-7577
Attn: Jeremy Parrish

For additional information please contact
Colin Wright, Ph.D.
Chris Bowen, B.S.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Chris Bowen, Environmental Administrator

Date Certified: 14-SEP-2023 11:17



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: NEROC LAB DI WATER

Collection Date/Time: 08/21/2023 14:45

Field ID: NEROC LAB DI WATER

Matrix: DI-WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2432475	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P434184	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P434180	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P434330	
		Sulfate	0.20	U	mg SO4/L	P434332	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P434411	RPD
	SM 2540 C-2015	TDS	15	U	mg/L	P434584	
	SM 2540 D-2015	TSS	2	U	mg/L	P434581	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P434417	
2432476	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P434442	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P434649	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P434739	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P434468	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P434339	
2432477	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P434178	
2432478	EPA 8321B	Aldicarb	0.020	U	ug/L	P434372	
		Aldicarb Sulfone	0.0020	U	ug/L	P434372	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P434372	MS
		Carbaryl	0.0020	U	ug/L	P434372	
		Carbofuran	0.0020	U	ug/L	P434372	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P434372	MS, RPD
		Methiocarb	0.0020	U	ug/L	P434372	
		Methomyl	0.0020	U	ug/L	P434372	
		Oxamyl	0.0020	U	ug/L	P434372	
		Propoxur	0.0020	U	ug/L	P434372	
2432479		2,4-D	0.0020	U	ug/L	P434161	
		Acesulfame K	0.10	U	ug/L	P434027	
		2,4,5-T	0.0040	U	ug/L	P434161	
		AMPA	0.10	U	ug/L	P434027	MS
		Acetaminophen	0.0080	U	ug/L	P434161	
		Endothall	0.25	U	ug/L	P434027	
		Acetamiprid	0.0020	U	ug/L	P434161	MS, RPD
		Glufosinate	0.10	U	ug/L	P434027	
		Glyphosate	0.10	U	ug/L	P434027	
		Afidopyropen	0.0020	U	ug/L	P434161	
		Bentazon	8.0E-04	U	ug/L	P434161	
		Sucralose	0.010	U	ug/L	P434027	
		Benzovindiflupyr	0.0020	U	ug/L	P434161	
		Carbamazepine	8.0E-04	U	ug/L	P434161	
		Clothianidin	0.0020	U	ug/L	P434161	
		Dinotefuran	0.0020	U	ug/L	P434161	MS
		Diuron	0.0020	U	ug/L	P434161	
		Fenuron	0.032	U	ug/L	P434161	MS
		Fluridone	8.0E-04	U	ug/L	P434161	

Field ID: NEROC LAB DI WATER

Matrix: DI-WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2432479	EPA 8321B	Imazapyr	0.0040	U	ug/L	P434161	
		Hydrocodone	0.0020	U	ug/L	P434161	
		Ibuprofen	0.080	U	ug/L	P434161	
		Imidacloprid	0.0020	U	ug/L	P434161	
		Linuron	0.0040	U	ug/L	P434161	
		Mandestrobin	0.0020	U	ug/L	P434161	
		MCP	0.0020	U	ug/L	P434161	
		Naproxen	0.0080	U	ug/L	P434161	
		Primidone	0.0040	U	ug/L	P434161	
		Pyraclostrobin	0.0020	U	ug/L	P434161	
		Silvex	0.0040	U	ug/L	P434161	
		Thiamethoxam	0.0020	U	ug/L	P434161	
		Tolfenpyrad	0.0020	U	ug/L	P434161	
		Triclopyr	0.0040	U	ug/L	P434161	
2432482	EPA 8270E	Aldrin	0.67	U	ng/L	P434135	
		Alpha-BHC	0.10	U	ng/L	P434135	
		Alpha-Chlordane	0.21	U	ng/L	P434135	
		PCB-1016	2.1	U	ng/L	P434135	
		Beta-BHC	0.10	U	ng/L	P434135	
		PCB-1221	2.1	U	ng/L	P434135	
		Beta-Cyfluthrin	1.3	UJ	ng/L	P434135	CCV
		PCB-1232	2.1	U	ng/L	P434135	
		Bifenthrin	0.52	U	ng/L	P434135	
		PCB-1242	2.1	U	ng/L	P434135	
		PCB-1248	2.1	U	ng/L	P434135	
		Chlorothalonil	3.7	U	ng/L	P434135	
		PCB-1254	2.1	U	ng/L	P434135	
		Cis-Nonachlor	0.21	U	ng/L	P434135	
		PCB-1260	2.1	U	ng/L	P434135	
		Cypermethrin	1.6	U	ng/L	P434135	
		Dacthal	0.16	U	ng/L	P434135	
		DDD-p,p'	0.26	U	ng/L	P434135	
		DDE-p,p'	0.21	U	ng/L	P434135	
		DDT-p,p'	0.83	U	ng/L	P434135	
		Delta-BHC	0.41	U	ng/L	P434135	
		Deltamethrin	1.3	U	ng/L	P434135	
		Dichlobenil	0.26	U	ng/L	P434135	
		Dicofol	1.3	U	ng/L	P434135	
		Dieldrin	0.41	U	ng/L	P434135	
		Endosulfan I	0.41	U	ng/L	P434135	
		Endosulfan II	0.93	U	ng/L	P434135	
		Endosulfan Sulfate	0.31	U	ng/L	P434135	
		Endrin	0.93	U	ng/L	P434135	
		Endrin Aldehyde	0.78	U	ng/L	P434135	
		Endrin Ketone	0.41	U	ng/L	P434135	

Field ID: NEROC LAB DI WATER

Matrix: DI-WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2432482	EPA 8270E	Esfenvalerate	0.78	U	ng/L	P434135	
		Ethalfuralin	0.16	U	ng/L	P434135	
		Fenpropathrin	0.26	U	ng/L	P434135	
		Gamma-BHC	0.13	U	ng/L	P434135	
		Gamma-Chlordane	0.21	U	ng/L	P434135	
		Heptachlor	0.21	U	ng/L	P434135	
		Heptachlor Epoxide	0.26	UJ	ng/L	P434135	CCV
		Hexachlorobenzene**	1.0	U	ng/L	P434135	
		Kepone	14	U	ng/L	P434135	
		Lambda-Cyhalothrin	0.78	U	ng/L	P434135	
		Methoprene	0.78	U	ng/L	P434135	
		Methoxychlor	0.31	U	ng/L	P434135	
		MGK-264	0.21	U	ng/L	P434135	
		Mirex	0.36	U	ng/L	P434135	
		Oxychlordane	0.31	U	ng/L	P434135	
		Permethrin	1.7	U	ng/L	P434135	
		Phenothrin	0.93	U	ng/L	P434135	
		Piperonyl Butoxide	0.16	U	ng/L	P434135	
		Prallethrin	2.1	U	ng/L	P434135	
		Tau-Fluvalinate	0.26	U	ng/L	P434135	
		Tetramethrin	0.78	U	ng/L	P434135	
		Trans-Nonachlor	0.21	U	ng/L	P434135	
		Triclosan Methyl	0.16	U	ng/L	P434135	
		Trifluralin	0.21	UJ	ng/L	P434135	CCV
		Chlordane	2.1	U	ng/L	P434135	
		Toxaphene	16	U	ng/L	P434135	
2432483	EPA 8270E	Oxybenzone**	10	U	ng/L	P434176	
		Acetochlor	0.21	U	ng/L	P434176	
		Octinoxate**	160	U	ng/L	P434176	
		Alachlor	0.41	U	ng/L	P434176	
		Avobenzone**	100	U	ng/L	P434176	
		Ametryn	1.1	U	ng/L	P434176	
		Atrazine	0.21	U	ng/L	P434176	
		PBDE-47**	4.1	U	ng/L	P434176	
		Atrazine Desethyl	1.3	U	ng/L	P434176	
		PBDE-99**	5.2	U	ng/L	P434176	
		Azinphos Methyl	3.1	U	ng/L	P434176	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P434176	
		Azoxystrobin	0.41	U	ng/L	P434176	
		Bromacil	0.62	U	ng/L	P434176	
		2-Ethylhexyl	12	U	ng/L	P434176	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.21	U	ng/L	P434176	
		Dechlorane Plus**	31	U	ng/L	P434176	
		Caffeine**	7.8	UJ	ng/L	P434176	LCS

Field ID: NEROC LAB DI WATER

Matrix: DI-WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2432483	EPA 8270E	Dechlorane 602**	5.2	U	ng/L	P434176	
		Carbophenothion	0.52	U	ng/L	P434176	
		Dechlorane 603**	4.1	U	ng/L	P434176	
		Carfentrazone Ethyl	0.16	U	ng/L	P434176	
		Hexabromobenzene**	6.2	U	ng/L	P434176	
		Chlorfenapyr	0.31	U	ng/L	P434176	
		PBB-153**	8.3	U	ng/L	P434176	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P434176	
		Pentabromotoluene**	3.1	U	ng/L	P434176	
		Chlorpyrifos Methyl	0.10	U	ng/L	P434176	
		Tris(2-chloroethyl) phosphate (TCEP)**	73	U	ng/L	P434176	
		Coumaphos	1.1	U	ng/L	P434176	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	16	U	ng/L	P434176	
		Cyanazine	5.2	U	ng/L	P434176	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P434176	
		Cyprodinil	0.21	U	ng/L	P434176	
		Tetradecachloro-m-terphenyl**	7.8	UJ	ng/L	P434176	LCS
		Demeton	3.6	U	ng/L	P434176	
		Diazinon	0.13	U	ng/L	P434176	
		Difenoconazole	0.62	U	ng/L	P434176	
		Dimethenamid	0.10	U	ng/L	P434176	
		Dimethomorph	0.31	UJ	ng/L	P434176	LCS, MS
		Disulfoton	0.62	U	ng/L	P434176	
		Dithiopyr	1.0	U	ng/L	P434176	
		EPTC	0.52	U	ng/L	P434176	
		Ethion	0.31	U	ng/L	P434176	
		Ethoprop	0.13	U	ng/L	P434176	
		Etridiazole	0.10	U	ng/L	P434176	
		Fenamiphos	0.47	U	ng/L	P434176	
		Fenbuconazole	0.52	U	ng/L	P434176	
		Fipronil	0.21	U	ng/L	P434176	
		Fipronil Desulfinyl**	0.10	U	ng/L	P434176	
		Fipronil Sulfide	0.10	U	ng/L	P434176	
		Fipronil Sulfone	0.10	U	ng/L	P434176	
		Fluazifop-P-butyl	0.10	U	ng/L	P434176	
		Fludioxonil	0.10	U	ng/L	P434176	
		Flumioxazin	3.1	U	ng/L	P434176	
		Flutolanil	0.10	U	ng/L	P434176	
		Fluxapyroxad	0.26	U	ng/L	P434176	
		Fonofos	0.16	U	ng/L	P434176	
		Hexazinone	0.52	U	ng/L	P434176	
		Imazalil	0.67	U	ng/L	P434176	
		Iprodione	0.52	U	ng/L	P434176	
		Loratadine**	0.31	U	ng/L	P434176	

Field ID: NEROC LAB DI WATER

Matrix: DI-WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2432483	EPA 8270E	Malathion	0.36	U	ng/L	P434176	
		Metalaxyl	0.52	U	ng/L	P434176	
		Metolachlor	0.78	U	ng/L	P434176	
		Metribuzin	0.41	U	ng/L	P434176	
		Mevinphos	1.0	U	ng/L	P434176	
		Molinate	0.26	U	ng/L	P434176	
		Myclobutanil	0.36	U	ng/L	P434176	
		Naled	2.6	U	ng/L	P434176	
		Napropamide	0.73	U	ng/L	P434176	
		Norflurazon	1.0	U	ng/L	P434176	
		Oxadiazon	0.36	U	ng/L	P434176	
		Oxyfluorfen	0.21	U	ng/L	P434176	
		Parathion Ethyl	0.16	U	ng/L	P434176	
		Parathion Methyl	0.21	U	ng/L	P434176	
		Pendimethalin	0.78	U	ng/L	P434176	
		Phenytain**	5.5	U	ng/L	P434176	
		Phorate	0.26	U	ng/L	P434176	
		Prodiamine	0.21	U	ng/L	P434176	
		Prometon	3.1	U	ng/L	P434176	
		Prometryn	0.36	U	ng/L	P434176	
		Pronamide	0.10	U	ng/L	P434176	
		Propanil	0.10	U	ng/L	P434176	
		Propargite	0.83	U	ng/L	P434176	
		Propiconazole	0.62	U	ng/L	P434176	
		Pyraflufen Ethyl	0.31	U	ng/L	P434176	
		Pyridaben	1.5	U	ng/L	P434176	
		Pyriproxyfen	0.26	U	ng/L	P434176	
		Simazine	0.26	U	ng/L	P434176	
		Stirophos	0.41	U	ng/L	P434176	
		Sulfentrazone	1.5	U	ng/L	P434176	
		Tebuconazole	1.5	U	ng/L	P434176	
		Terbufos	0.21	U	ng/L	P434176	
		Terbuthylazine	0.21	U	ng/L	P434176	
		Thiobencarb	0.52	U	ng/L	P434176	
		Triadimefon	0.16	U	ng/L	P434176	
2432486	EPA 200.7 Rev. 4.4	Barium	1.0	U	ug/L	P434232	
		Calcium	0.075	U	mg/L	P434232	
		Iron	30	U	ug/L	P434232	
		Magnesium	0.040	U	mg/L	P434232	
		Potassium	0.30	U	mg/L	P434232	
		Sodium	0.50	U	mg/L	P434232	
		Zinc	5.0	U	ug/L	P434232	
	EPA 200.8 Rev. 5.4	Aluminum	5.0	U	ug/L	P434232	
		Antimony	0.050	U	ug/L	P434232	
		Arsenic	0.050	U	ug/L	P434232	

Field ID: NEROC LAB DI WATER

Matrix: DI-WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2432486	EPA 200.8 Rev. 5.4	Boron	2.0	U	ug/L	P434232	
		Cadmium	0.020	U	ug/L	P434232	
		Chromium	0.40	U	ug/L	P434232	
		Copper	0.40	U	ug/L	P434232	
		Lead	0.20	U	ug/L	P434232	
		Nickel	0.50	U	ug/L	P434232	
		Selenium	0.20	U	ug/L	P434232	
		Silver	0.010	U	ug/L	P434232	
		Thallium	0.10	U	ug/L	P434232	
	SM 2340 B-2011	Hardness	0.35	U	mg/L	P434232	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8270E: 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: P434184

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P434180

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P434232

Component	Result	Code	Units
Barium	1.0	U	ug/L
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
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P434232

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	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: P434330

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434332

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P434442

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P434649

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P434739

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P434468

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P434178

Component	Result	Code	Units
O-Phosphate-P	0.004	U	mg P/L

Reference Method: EPA 8270E
Batch ID: P434135

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P434135

Component	Result	Code	Units
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.80	U	ng/L
DDT-p,p'	0.80	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin	0.90	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	14	U	ng/L
Kepone	14	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P434135

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

Reference Method: EPA 8270E

Batch ID: P434176

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P434176

Component	Result	Code	Units
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.20	U	ng/L
Butylate	0.20	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P434176

Component	Result	Code	Units
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P434176

Component	Result	Code	Units
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	150	U	ng/L
Octinoxate	150	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	8.0	U	ng/L
PBB-153	8.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	0.75	U	ng/L
Pendimethalin	0.75	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P434176

Component	Result	Code	Units
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbufos	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L

Reference Method: EPA 8276

Batch ID: P434135

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

Reference Method: EPA 8321B

Batch ID: P434027

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

Reference Method: EPA 8321B

Batch ID: P434161

Component	Result	Code	Units
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Method Blank Results

Reference Method: EPA 8321B

Batch ID: P434161

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: P434372

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

Reference Method: SM 2320 B-2011

Batch ID: P434411

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 C-2015
Batch ID: P434584

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P434581

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P434417

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P434339

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: P434184

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P434180

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P434232

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	104		P	85 - 115
Calcium	104		P	85 - 115
Iron	104		P	85 - 115
Magnesium	104		P	85 - 115
Potassium	101		P	85 - 115
Sodium	105		P	85 - 115
Zinc	99.5		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P434232

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	98.1		P	85 - 115
Antimony	98.4		P	85 - 115
Arsenic	95.5		P	85 - 115
Boron	98.8		P	85 - 115
Cadmium	98.1		P	85 - 115
Chromium	94.8		P	85 - 115
Copper	94.4		P	85 - 115
Lead	92.3		P	85 - 115
Nickel	93.0		P	85 - 115
Selenium	96.4		P	85 - 115
Silver	113		P	85 - 115
Thallium	95.9		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434330

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434332

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	95.7		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P434442

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P434649

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: P434739

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P434468

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P434178

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.7		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P434135

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	38.0		P	30 - 96.0
Alpha-BHC	89.5		P	70 - 109
Alpha-Chlordane	66.2		P	45 - 107
Beta-BHC	89.7		P	64 - 138
Beta-Cyfluthrin	52.9		P	17 - 141
Bifenthrin	40.9		P	10 - 113
Chlorothalonil	94.5		P	26 - 180
Cis-Nonachlor	77.8		P	37 - 102
Cypermethrin	48.0		P	20 - 133
Dacthal	78.1		P	69 - 114
DDD-p,p'	57.3		P	42 - 105
DDE-p,p'	42.7		P	42 - 106
DDT-p,p'	52.0		P	42 - 107
Delta-BHC	86.3		P	67 - 144
Deltamethrin	60.9		P	15 - 149
Dichlobenil	51.9		P	46 - 117
Dicofol	70.1		P	34 - 114
Dieldrin	51.0		P	50 - 108
Endosulfan I	72.9		P	55 - 104
Endosulfan II	81.5		P	51 - 111
Endosulfan Sulfate	72.9		P	56 - 121
Endrin	57.6		P	10 - 106

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P434135

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endrin Aldehyde	60.0		P	34 - 114
Endrin Ketone	83.5		P	63 - 177
Esfenvalerate	49.0		P	29 - 143
Ethalfuralin	56.9		P	46 - 96.0
Fenpropathrin	56.5		P	28 - 115
Gamma-BHC	67.2		P	65 - 121
Gamma-Chlordane	40.4		P	39 - 103
Heptachlor	49.8		P	39 - 94.0
Heptachlor Epoxide	75.6		P	54 - 104
Hexachlorobenzene	66.6		P	36 - 100
Kepone	55.2		P	10 - 225
Lambda-Cyhalothrin	51.5		P	10 - 135
Methoprene	25.7		P	10 - 109
Methoxychlor	73.5		P	52 - 112
MGK-264	63.7		P	44 - 117
Mirex	65.3		P	20 - 90.0
Oxychlordane	49.4		P	44 - 102
PCB-1016	71.6		P	45 - 107
PCB-1260	69.5		P	40 - 118
Permethrin	62.7		P	18 - 135
Phenothrin	55.4		P	10 - 102
Piperonyl Butoxide	55.9		P	28 - 156
Prallethrin	36.1		P	28 - 113
Tau-Fluvalinate	54.2		P	10 - 123
Tetramethrin	75.0		P	18 - 158
Trans-Nonachlor	55.1		P	39 - 104
Triclosan Methyl	72.3		P	54 - 108
Trifluralin	55.9		P	46 - 97.0

Reference Method: EPA 8270E

Batch ID: P434176

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	52.1		P	42 - 162
Acetochlor	79.1		P	69 - 123
Alachlor	82.6		P	65 - 118
Ametryn	119		P	58 - 141
Atrazine	98.9		P	73 - 118
Atrazine Desethyl	96.0		P	32 - 125
Avobenzone	91.0		P	40 - 203
Azinphos Methyl	147		P	36 - 197
Azoxystrobin	114		P	58 - 226
Bromacil	96.5		P	48 - 120
Butylate	59.0		P	27 - 85.0
Caffeine	180		F	40 - 137
Carbophenothion	95.8		P	54 - 132
Carfentrazone Ethyl	104		P	60 - 142
Chlorfenapyr	91.7		P	53 - 117
Chlorpyrifos Ethyl	78.1		P	59 - 116
Chlorpyrifos Methyl	105		P	66 - 119
Coumaphos	147		P	11 - 234
Cyanazine	117		P	61 - 248

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P434176

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Cyprodinil	87.0		P	50 - 147
Dechlorane 602	53.7		P	50 - 150
Dechlorane 603	69.5		P	50 - 150
Dechlorane Plus	65.8		P	47 - 182
Demeton	69.4		P	30 - 138
Diazinon	92.3		P	67 - 126
Difenoconazole	142		P	38 - 205
Dimethenamid	87.0		P	57 - 111
Dimethomorph	258		F	16 - 212
Disulfoton	95.0		P	46 - 126
Dithiopyr	81.4		P	62 - 115
EPTC	54.6		P	28 - 80.0
Ethion	58.0		P	24 - 122
Ethoprop	97.1		P	62 - 113
Etridiazole	54.2		P	28 - 92.0
Fenamiphos	95.7		P	57 - 128
Fenbuconazole	107		P	52 - 155
Fipronil	92.4		P	63 - 130
Fipronil Desulfinyl	80.5		P	61 - 130
Fipronil Sulfide	92.3		P	56 - 117
Fipronil Sulfone	80.9		P	52 - 118
Fluazifop-P-butyl	92.2		P	61 - 128
Fludioxonil	91.5		P	59 - 129
Flumioxazin	140		P	30 - 250
Flutolanil	80.3		P	53 - 127
Fluxapyroxad	81.7		P	42 - 132
Fonofos	101		P	61 - 110
Hexabromobenzene	53.6		P	50 - 150
Hexazinone	94.0		P	46 - 139
Imazalil	78.8		P	40 - 139
Iprodione	96.0		P	40 - 146
Loratadine	158		P	10 - 224
Malathion	96.1		P	61 - 135
Metaxyl	76.3		P	58 - 121
Metolachlor	111		P	64 - 118
Metribuzin	103		P	45 - 245
Mevinphos	94.7		P	49 - 118
Molinate	59.6		P	42 - 92.0
Myclobutanil	106		P	55 - 127
Naled	52.3		P	10 - 114
Napropamide	81.9		P	39 - 121
Norflurazon	87.8		P	55 - 129
Octinoxate	71.2		P	26 - 166
Oxadiazon	80.4		P	54 - 115
Oxybenzone	69.1		P	49 - 135
Oxyfluorfen	105		P	64 - 139
Parathion Ethyl	96.6		P	70 - 111
Parathion Methyl	97.0		P	76 - 136
PBB-153	59.1		P	50 - 150
PBDE-47	53.7		P	41 - 148
PBDE-99	52.9		P	38 - 147
Pendimethalin	104		P	52 - 118

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P434176

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pentabromotoluene	55.6		P	50 - 150
Phenytoin	40.4		P	10 - 162
Phorate	95.4		P	40 - 122
Prodiamine	48.0		P	26 - 141
Prometon	95.7		P	54 - 122
Prometryn	91.3		P	61 - 128
Pronamide	101		P	72 - 121
Propanil	117		P	45 - 144
Propargite	74.8		P	10 - 199
Propiconazole	93.7		P	56 - 127
Pyraflufen Ethyl	98.0		P	56 - 140
Pyridaben	120		P	26 - 211
Pyriproxyfen	86.6		P	33 - 194
Simazine	114		P	67 - 121
Stiophos	56.4		P	20 - 142
Sulfentrazone	78.8		P	21 - 144
Tebuconazole	70.2		P	10 - 122
Terbufos	97.3		P	60 - 129
Terbutylazine	76.8		P	69 - 113
Tetradecachloro-m-terphenyl	54.3		F	70 - 200
Thiobencarb	92.1		P	51 - 120
Tri-o-cresyl Phosphate	68.1		P	49 - 150
Triadimefon	80.1		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	70.9		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	65.3		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	71.8		P	70 - 180

Reference Method: EPA 8276

Batch ID: P434135

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	88.8		P	52 - 117
Toxaphene	94.2		P	44 - 125

Reference Method: EPA 8321B

Batch ID: P434027

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	103		P	40 - 150
AMPA	139		P	40 - 150
Endothall	85.5		P	40 - 150
Glufosinate	82.2		P	40 - 150
Glyphosate	85.3		P	40 - 150
Sucralose	111		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P434161

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	87.1		P	40 - 150
2,4,5-T	92.5		P	40 - 150
Acetaminophen	104		P	30 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P434161

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetamiprid	106		P	40 - 150
Afidopyropen	82.8		P	30 - 150
Bentazon	135		P	30 - 150
Benzovindiflupyr	119		P	40 - 150
Carbamazepine	92.6		P	40 - 150
Clothianidin	104		P	40 - 150
Dinotefuran	102		P	40 - 150
Diuron	104		P	40 - 150
Fenuron	113		P	40 - 150
Fluridone	95.0		P	40 - 150
Hydrocodone	110		P	40 - 150
Ibuprofen	79.7		P	40 - 150
Imazapyr	87.9		P	40 - 150
Imidacloprid	93.9		P	40 - 150
Linuron	86.4		P	40 - 150
Mandestrobin	125		P	40 - 150
MCPP	98.8		P	40 - 150
Naproxen	75.9		P	40 - 150
Primidone	98.0		P	40 - 150
Pyraclostrobin	96.8		P	40 - 150
Silvex	92.4		P	40 - 150
Thiamethoxam	107		P	40 - 150
Tolfenpyrad	64.6		P	30 - 150
Triclopyr	110		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P434372

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	43.2		P	40 - 150
Aldicarb	47.8		P	30 - 150
Aldicarb Sulfone	86.2		P	40 - 150
Aldicarb Sulfoxide	87.9		P	40 - 150
Carbaryl	63.7		P	40 - 150
Carbofuran	76.5		P	40 - 150
Methiocarb	65.3		P	40 - 150
Methomyl	82.1		P	40 - 150
Oxamyl	90.8		P	40 - 150
Propoxur	85.9		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P434411

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.8		P	92 - 105

Reference Method: SM 2540 C-2015

Batch ID: P434584

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2540 D-2015
Batch ID: P434581

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	93.9		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P434417

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.4		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P434339

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	93.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P434232

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2432386	Barium	106	106	P/P	80 - 120
2432386	Calcium	104	102	P/P	80 - 120
2432386	Iron	107	105	P/P	80 - 120
2432386	Magnesium	106	105	P/P	80 - 120
2432386	Potassium	104	104	P/P	80 - 120
2432386	Sodium	106	106	P/P	80 - 120
2432386	Zinc	102	102	P/P	80 - 120
2432400	Barium	96.6		P	80 - 120
2432400	Calcium	101		P	80 - 120
2432400	Iron	97.6		P	80 - 120
2432400	Magnesium	103		P	80 - 120
2432400	Potassium	93.2		P	80 - 120
2432400	Sodium	104		P	80 - 120
2432400	Zinc	92.9		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P434232

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2432386	Aluminum	97.8	97.9	P/P	80 - 120
2432386	Antimony	98.4	98.2	P/P	80 - 120
2432386	Arsenic	95.1	95.3	P/P	80 - 120
2432386	Boron	98.2	98.3	P/P	80 - 120
2432386	Cadmium	98.3	97.5	P/P	80 - 120
2432386	Chromium	94.5	94.3	P/P	80 - 120
2432386	Copper	97.1	96.3	P/P	80 - 120
2432386	Lead	92.1	91.5	P/P	80 - 120
2432386	Nickel	93.8	93.6	P/P	80 - 120
2432386	Selenium	96.5	96.2	P/P	80 - 120
2432386	Silver	111	109	P/P	80 - 120
2432386	Thallium	96.7	97.6	P/P	80 - 120
2432400	Aluminum	94.5		P	80 - 120
2432400	Antimony	100		P	80 - 120
2432400	Arsenic	94.3		P	80 - 120
2432400	Boron	98.9		P	80 - 120
2432400	Cadmium	98.3		P	80 - 120
2432400	Chromium	93.4		P	80 - 120
2432400	Copper	96.6		P	80 - 120
2432400	Lead	97.5		P	80 - 120
2432400	Nickel	90.3		P	80 - 120
2432400	Selenium	92.4		P	80 - 120
2432400	Silver	108		P	80 - 120
2432400	Thallium	99.2		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P434330

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2432489	Chloride	101		P	90 - 110
2432529	Chloride	98.2		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P434332

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2432489	Sulfate	97.6		P	90 - 110
2432529	Sulfate	95.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P434442

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2432436	Ammonia-N	97.8	98.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P434649

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2432491	Kjeldahl Nitrogen	97.5	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P434739

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2432393	NO2NO3-N	98.8	99.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P434468

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2432383	Total-P	108	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P434178

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2432437	O-Phosphate-P	97.4	98.9	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P434135

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2432207	PCB-1016	58.2	51.1	P/P	45 - 107
2432207	PCB-1260	63.5	71.8	P/P	40 - 112
2432255	Aldrin	45.1	43.2	P/P	24 - 81.0
2432255	Alpha-BHC	73.4	84.7	P/P	65 - 110
2432255	Alpha-Chlordane	68.7	83.4	P/P	43 - 119
2432255	Beta-BHC	77.2	93.0	P/P	54 - 165
2432255	Beta-Cyfluthrin	71.0	71.7	P/P	27 - 165
2432255	Bifenthrin	40.2	47.3	P/P	17 - 117
2432255	Chlorothalonil	60.2	68.2	P/P	10 - 255
2432255	Cis-Nonachlor	65.5	61.2	P/P	34 - 98.0
2432255	Cypermethrin	41.6	43.7	P/P	25 - 143
2432255	Dacthal	75.2	70.9	P/P	55 - 139
2432255	DDD-p,p'	61.9	56.5	P/P	30 - 109
2432255	DDE-p,p'	55.5	60.5	P/P	35 - 106
2432255	DDT-p,p'	52.0	54.6	P/P	41 - 101

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P434135

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2432255	Delta-BHC	76.9	84.7	P/P	58 - 165
2432255	Deltamethrin	60.6	57.0	P/P	10 - 194
2432255	Dichlobenil	55.3	64.4	P/P	22 - 114
2432255	Dicofol	66.4	61.6	P/P	17 - 133
2432255	Dieldrin	56.3	54.6	P/P	45 - 129
2432255	Endosulfan I	68.8	77.6	P/P	49 - 104
2432255	Endosulfan II	63.6	68.7	P/P	37 - 117
2432255	Endosulfan Sulfate	72.0	70.9	P/P	38 - 128
2432255	Endrin	57.1	44.7	P/P	35 - 116
2432255	Endrin Aldehyde	47.2	44.1	P/P	19 - 108
2432255	Endrin Ketone	80.6	74.6	P/P	44 - 134
2432255	Esfenvalerate	50.0	52.6	P/P	27 - 176
2432255	Ethalfuralin	68.2	57.3	P/P	49 - 100
2432255	Fenpropathrin	45.7	57.1	P/P	34 - 117
2432255	Gamma-BHC	65.7	73.5	P/P	59 - 129
2432255	Gamma-Chlordane	47.8	54.8	P/P	33 - 107
2432255	Heptachlor	58.3	59.1	P/P	37 - 94.0
2432255	Heptachlor Epoxide	69.4	64.6	P/P	38 - 118
2432255	Hexachlorobenzene	62.1	65.3	P/P	35 - 97.0
2432255	Kepone	36.5	33.0	P/P	10 - 221
2432255	Lambda-Cyhalothrin	47.8	55.4	P/P	23 - 190
2432255	Methoprene	32.3	39.3	P/P	21 - 109
2432255	Methoxychlor	56.6	56.5	P/P	46 - 118
2432255	MGK-264	59.0	61.8	P/P	39 - 122
2432255	Mirex	52.3	55.2	P/P	25 - 90.0
2432255	Oxychlordane	44.4	50.5	P/P	42 - 100
2432255	Permethrin	64.9	57.1	P/P	33 - 181
2432255	Phenothrin	40.4	36.8	P/P	12 - 125
2432255	Piperonyl Butoxide	56.1	75.2	P/P	10 - 178
2432255	Prallethrin	51.9	45.6	P/P	24 - 122
2432255	Tau-Fluvalinate	54.2	59.8	P/P	13 - 151
2432255	Tetramethrin	60.9	65.4	P/P	16 - 172
2432255	Trans-Nonachlor	67.2	64.4	P/P	39 - 100
2432255	Triclosan Methyl	72.0	80.7	P/P	43 - 110
2432255	Trifluralin	62.2	55.7	P/P	45 - 94.0

Reference Method: EPA 8270E

Batch ID: P434176

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2431920	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	64.5	75.5	P/P	26 - 165
2431920	Acetochlor	81.1	80.5	P/P	67 - 124
2431920	Alachlor	70.6	72.1	P/P	60 - 120
2431920	Ametryn	140	128	P/P	54 - 216
2431920	Atrazine	94.9	87.3	P/P	66 - 128
2431920	Atrazine Desethyl	100	93.2	P/P	15 - 122
2431920	Avobenzone	117	121	P/P	37 - 178
2431920	Azinphos Methyl	135	134	P/P	40 - 292
2431920	Azoxystrobin	114	102	P/P	35 - 220
2431920	Bromacil	102	94.6	P/P	45 - 127
2431920	Butylate	40.4	48.4	P/P	20 - 83.0
2431920	Caffeine	134	113	P/P	10 - 194

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P434176

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2431920	Carbophenothion	89.8	94.6	P/P	57 - 127
2431920	Carfentrazone Ethyl	98.9	98.3	P/P	51 - 141
2431920	Chlorfenapyr	73.4	74.6	P/P	46 - 111
2431920	Chlorpyrifos Ethyl	76.7	72.4	P/P	52 - 120
2431920	Chlorpyrifos Methyl	99.5	102	P/P	63 - 119
2431920	Coumaphos	136	134	P/P	10 - 228
2431920	Cyanazine	109	119	P/P	59 - 241
2431920	Cyprodinil	77.8	68.7	P/P	47 - 146
2431920	Dechlorane 602	55.7	71.7	P/P	50 - 150
2431920	Dechlorane 603	82.5	93.2	P/P	50 - 150
2431920	Dechlorane Plus	78.2	81.6	P/P	50 - 150
2431920	Demeton	67.8	66.5	P/P	40 - 136
2431920	Diazinon	95.3	84.4	P/P	69 - 132
2431920	Difenoconazole	126	128	P/P	57 - 258
2431920	Dimethenamid	90.6	88.4	P/P	54 - 110
2431920	Dimethomorph	211	211	F/F	28 - 210
2431920	Disulfoton	93.5	98.6	P/P	43 - 133
2431920	Dithiopyr	85.8	89.1	P/P	39 - 116
2431920	EPTC	38.7	45.5	P/P	20 - 78.0
2431920	Ethion	42.0	58.3	P/P	17 - 119
2431920	Ethoprop	90.1	91.7	P/P	66 - 120
2431920	Etridiazole	49.0	51.2	P/P	28 - 96.0
2431920	Fenamiphos	78.6	74.5	P/P	41 - 126
2431920	Fenbuconazole	80.8	76.6	P/P	42 - 169
2431920	Fipronil	92.2	90.9	P/P	61 - 132
2431920	Fipronil Desulfanyl	81.1	81.3	P/P	56 - 132
2431920	Fipronil Sulfide	90.5	87.3	P/P	48 - 119
2431920	Fipronil Sulfone	88.2	82.5	P/P	42 - 131
2431920	Fluazifop-P-butyl	83.1	82.5	P/P	53 - 131
2431920	Fludioxonil	89.3	87.7	P/P	56 - 127
2431920	Flumioxazin	143	144	P/P	19 - 300
2431920	Flutolanil	84.9	75.8	P/P	41 - 127
2431920	Fluxapyroxad	74.4	83.1	P/P	42 - 172
2431920	Fonofos	90.1	83.0	P/P	59 - 113
2431920	Hexabromobenzene	58.9	70.3	P/P	50 - 150
2431920	Hexazinone	89.8	90.3	P/P	66 - 122
2431920	Imazalil	75.9	73.1	P/P	21 - 283
2431920	Iprodione	74.7	73.6	P/P	43 - 150
2431920	Loratadine	149	136	P/P	23 - 201
2431920	Malathion	86.3	84.1	P/P	58 - 136
2431920	Metalaxyl	87.8	83.0	P/P	55 - 120
2431920	Metolachlor	92.1	95.5	P/P	57 - 121
2431920	Metribuzin	100	105	P/P	58 - 294
2431920	Mevinphos	89.2	82.2	P/P	50 - 126
2431920	Molinate	48.4	52.3	P/P	42 - 93.0
2431920	Myclobutanil	92.6	91.3	P/P	55 - 125
2431920	Naled	39.6	40.2	P/P	18 - 200
2431920	Napropamide	77.1	73.9	P/P	39 - 110
2431920	Norflurazon	83.2	83.0	P/P	48 - 128
2431920	Octinoxate	97.8	99.6	P/P	21 - 159
2431920	Oxadiazon	76.6	74.9	P/P	43 - 112
2431920	Oxybenzone	104	101	P/P	41 - 142

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P434176

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2431920	Oxyfluorfen	93.6	99.4	P/P	64 - 153
2431920	Parathion Ethyl	83.5	90.1	P/P	69 - 114
2431920	Parathion Methyl	92.3	85.7	P/P	79 - 139
2431920	PBB-153	61.9	76.9	P/P	50 - 150
2431920	PBDE-47	69.5	81.6	P/P	27 - 144
2431920	PBDE-99	59.8	71.7	P/P	18 - 150
2431920	Pendimethalin	97.3	93.0	P/P	50 - 139
2431920	Pentabromotoluene	80.3	83.2	P/P	50 - 150
2431920	Phenytoin	55.0	73.9	P/P	10 - 146
2431920	Phorate	87.1	96.2	P/P	54 - 161
2431920	Prodiamine	35.4	31.8	P/P	30 - 161
2431920	Prometon	94.8	88.8	P/P	45 - 134
2431920	Prometryn	94.4	97.3	P/P	45 - 137
2431920	Pronamide	100	105	P/P	65 - 133
2431920	Propanil	120	116	P/P	49 - 142
2431920	Propargite	73.9	80.5	P/P	10 - 203
2431920	Propiconazole	71.8	75.9	P/P	38 - 146
2431920	Pyraflufen Ethyl	84.1	85.9	P/P	34 - 153
2431920	Pyridaben	94.4	105	P/P	12 - 192
2431920	Pyriproxyfen	61.4	86.1	P/P	33 - 180
2431920	Simazine	102	102	P/P	51 - 157
2431920	Stiropfos	45.1	51.0	P/P	10 - 128
2431920	Sulfentrazone	111	111	P/P	53 - 186
2431920	Tebuconazole	57.9	71.1	P/P	10 - 133
2431920	Terbufos	103	102	P/P	65 - 139
2431920	Terbutylazine	80.3	74.7	P/P	66 - 117
2431920	Tetradecachloro-m-terphenyl	88.3	93.0	P/P	70 - 200
2431920	Thiobencarb	89.2	84.6	P/P	51 - 119
2431920	Tri-o-cresyl Phosphate	87.1	96.0	P/P	31 - 144
2431920	Triadimefon	80.4	81.9	P/P	48 - 119
2431920	Tris(1-chloro-2-propyl) phosphate (TCPP)	113	112	P/P	50 - 150
2431920	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	96.9	96.2	P/P	50 - 150
2431920	Tris(2-chloroethyl) phosphate (TCEP)	91.5	94.3	P/P	70 - 180

Reference Method: EPA 8276

Batch ID: P434135

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2432207	Chlordane	90.2	103	P/P	43 - 123
2432207	Toxaphene	113	124	P/P	27 - 156

Reference Method: EPA 8321B

Batch ID: P434027

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2431835	Acesulfame K	105	90.9	P/P	40 - 150
2431835	AMPA	159	158	F/F	40 - 150
2431835	Endothall	100	91.4	P/P	40 - 150
2431835	Glufosinate	84.8	79.7	P/P	40 - 150
2431835	Glyphosate	55.7	66.7	P/P	40 - 150
2431835	Sucralose	113	107	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P434161

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2431707	2,4-D	84.7	87.4	P/P	40 - 150
2431707	2,4,5-T	115	128	P/P	40 - 150
2431707	Acetaminophen	68.5	72.9	P/P	30 - 150
2431707	Acetamiprid	43.8	25.6	P/F	40 - 150
2431707	Afidopyropen	76.8	59.9	P/P	30 - 150
2431707	Benzovindiflupyr	102	99.8	P/P	40 - 150
2431707	Carbamazepine	48.6	51.0	P/P	40 - 150
2431707	Clothianidin	54.3	54.3	P/P	40 - 150
2431707	Dinotefuran	31.9	33.4	F/F	40 - 150
2431707	Diuron	44.5	43.5	P/P	40 - 150
2431707	Fenuron	25.7	25.6	F/F	40 - 150
2431707	Fluridone	55.9	53.1	P/P	40 - 150
2431707	Hydrocodone	40.9	41.3	P/P	40 - 150
2431707	Ibuprofen	63.1	67.4	P/P	40 - 150
2431707	Imidacloprid	74.8	75.5	P/P	40 - 150
2431707	Linuron	59.3	50.9	P/P	40 - 150
2431707	Mandestrobin	98.6	95.0	P/P	40 - 150
2431707	MCPP	116	117	P/P	40 - 150
2431707	Naproxen	108	96.8	P/P	40 - 150
2431707	Primidone	49.1	45.8	P/P	40 - 150
2431707	Pyraclostrobin	87.5	87.4	P/P	40 - 150
2431707	Silvex	135	136	P/P	40 - 150
2431707	Thiamethoxam	45.5	46.5	P/P	40 - 150
2431707	Tolfenpyrad	55.7	62.1	P/P	30 - 150
2431707	Triclopyr	134	125	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P434372

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2433691	3-Hydroxycarbofuran	56.2	25.8	P/F	40 - 150
2433691	Aldicarb	62.7	48.7	P/P	30 - 150
2433691	Aldicarb Sulfone	90.9	85.6	P/P	40 - 150
2433691	Aldicarb Sulfoxide	30.6	25.0	F/F	40 - 150
2433691	Carbaryl	67.8	63.5	P/P	40 - 150
2433691	Carbofuran	63.7	59.5	P/P	40 - 150
2433691	Methiocarb	71.2	61.1	P/P	40 - 150
2433691	Methomyl	72.0	70.3	P/P	40 - 150
2433691	Oxamyl	78.4	76.1	P/P	40 - 150
2433691	Propoxur	66.8	62.8	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P434417

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2432389	Fluoride	100	100	P/P	94 - 106

Reference Method: SM 5310 B-2011

Batch ID: P434339

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2432102	Organic Carbon	98.0	97.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P434184

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432490	Color (true)	3.00	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P434180

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432389	Turbidity	1.71	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P434232

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432386	Barium	0.255	Spike	P	0 - 20
2432386	Calcium	1.75	Spike	P	0 - 20
2432386	Iron	1.84	Spike	P	0 - 20
2432386	Magnesium	1.51	Spike	P	0 - 20
2432386	Potassium	0.607	Spike	P	0 - 20
2432386	Sodium	0.0319	Spike	P	0 - 20
2432386	Zinc	0.111	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P434232

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432386	Aluminum	0.102	Spike	P	0 - 20
2432386	Antimony	0.209	Spike	P	0 - 20
2432386	Arsenic	0.165	Spike	P	0 - 20
2432386	Boron	0.108	Spike	P	0 - 20
2432386	Cadmium	0.901	Spike	P	0 - 20
2432386	Chromium	0.227	Spike	P	0 - 20
2432386	Copper	0.748	Spike	P	0 - 20
2432386	Lead	0.619	Spike	P	0 - 20
2432386	Nickel	0.151	Spike	P	0 - 20
2432386	Selenium	0.246	Spike	P	0 - 20
2432386	Silver	1.22	Spike	P	0 - 20
2432386	Thallium	0.844	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434330

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432489	Chloride	0.0772	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434332

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432489	Sulfate	0.100	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P434442

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432436	Ammonia-N	0.749	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P434649

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432491	Kjeldahl Nitrogen	2.27	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P434739

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432393	NO2NO3-N	0.312	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P434468

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432383	Total-P	0.862	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P434178

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432437	O-Phosphate-P	1.53	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P434135

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432207	PCB-1016	12.9	Spike	P	0 - 25
2432207	PCB-1260	12.4	Spike	P	0 - 30
2432255	Aldrin	4.41	Spike	P	0 - 41
2432255	Alpha-BHC	14.2	Spike	P	0 - 25
2432255	Alpha-Chlordane	19.4	Spike	P	0 - 32
2432255	Beta-BHC	18.5	Spike	P	0 - 33
2432255	Beta-Cyfluthrin	1.06	Spike	P	0 - 43
2432255	Bifenthrin	16.2	Spike	P	0 - 52
2432255	Chlorothalonil	12.5	Spike	P	0 - 82

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P434135

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432255	Cis-Nonachlor	6.80	Spike	P	0 - 33
2432255	Cypermethrin	5.00	Spike	P	0 - 51
2432255	Dacthal	5.98	Spike	P	0 - 27
2432255	DDD-p,p'	9.11	Spike	P	0 - 39
2432255	DDE-p,p'	8.52	Spike	P	0 - 31
2432255	DDT-p,p'	4.92	Spike	P	0 - 29
2432255	Delta-BHC	9.70	Spike	P	0 - 35
2432255	Deltamethrin	6.20	Spike	P	0 - 100
2432255	Dichlobenil	15.2	Spike	P	0 - 40
2432255	Dicofol	7.54	Spike	P	0 - 37
2432255	Dieldrin	2.95	Spike	P	0 - 27
2432255	Endosulfan I	12.0	Spike	P	0 - 23
2432255	Endosulfan II	7.70	Spike	P	0 - 34
2432255	Endosulfan Sulfate	1.55	Spike	P	0 - 36
2432255	Endrin	24.2	Spike	P	0 - 45
2432255	Endrin Aldehyde	6.91	Spike	P	0 - 76
2432255	Endrin Ketone	7.80	Spike	P	0 - 43
2432255	Esfenvalerate	4.93	Spike	P	0 - 51
2432255	Ethalfuralin	17.4	Spike	P	0 - 22
2432255	Fenpropathrin	22.2	Spike	P	0 - 49
2432255	Gamma-BHC	11.2	Spike	P	0 - 28
2432255	Gamma-Chlordane	13.5	Spike	P	0 - 40
2432255	Heptachlor	1.31	Spike	P	0 - 29
2432255	Heptachlor Epoxide	7.21	Spike	P	0 - 33
2432255	Hexachlorobenzene	5.09	Spike	P	0 - 36
2432255	Kepone	10.3	Spike	P	0 - 85
2432255	Lambda-Cyhalothrin	14.8	Spike	P	0 - 55
2432255	Methoprene	19.3	Spike	P	0 - 53
2432255	Methoxychlor	0.207	Spike	P	0 - 50
2432255	MGK-264	4.49	Spike	P	0 - 43
2432255	Mirex	5.41	Spike	P	0 - 40
2432255	Oxychlordane	12.7	Spike	P	0 - 31
2432255	Permethrin	12.8	Spike	P	0 - 50
2432255	Phenothrin	9.44	Spike	P	0 - 58
2432255	Piperonyl Butoxide	29.2	Spike	P	0 - 100
2432255	Prallethrin	12.9	Spike	P	0 - 39
2432255	Tau-Fluvalinate	9.85	Spike	P	0 - 54
2432255	Tetramethrin	7.12	Spike	P	0 - 51
2432255	Trans-Nonachlor	4.35	Spike	P	0 - 39
2432255	Triclosan Methyl	11.5	Spike	P	0 - 31
2432255	Trifluralin	11.2	Spike	P	0 - 22

Reference Method: EPA 8270E
Batch ID: P434176

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431920	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	15.8	Spike	P	0 - 37
2431920	Acetochlor	0.758	Spike	P	0 - 28
2431920	Alachlor	2.20	Spike	P	0 - 30
2431920	Ametryn	8.67	Spike	P	0 - 32

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P434176

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431920	Atrazine	5.70	Spike	P	0 - 41
2431920	Atrazine Desethyl	7.41	Spike	P	0 - 36
2431920	Avobenzone	2.76	Spike	P	0 - 36
2431920	Azinphos Methyl	0.581	Spike	P	0 - 75
2431920	Azoxystrobin	11.3	Spike	P	0 - 39
2431920	Bromacil	7.90	Spike	P	0 - 33
2431920	Butylate	18.1	Spike	P	0 - 44
2431920	Caffeine	15.4	Spike	P	0 - 74
2431920	Carbophenothion	5.23	Spike	P	0 - 25
2431920	Carfentrazone Ethyl	0.602	Spike	P	0 - 27
2431920	Chlorfenapyr	1.61	Spike	P	0 - 24
2431920	Chlorpyrifos Ethyl	5.80	Spike	P	0 - 26
2431920	Chlorpyrifos Methyl	2.37	Spike	P	0 - 26
2431920	Coumaphos	1.64	Spike	P	0 - 28
2431920	Cyanazine	9.22	Spike	P	0 - 48
2431920	Cyprodinil	12.5	Spike	P	0 - 29
2431920	Dechlorane 602	25.1	Spike	P	0 - 30
2431920	Dechlorane 603	12.2	Spike	P	0 - 30
2431920	Dechlorane Plus	4.21	Spike	P	0 - 30
2431920	Demeton	1.99	Spike	P	0 - 33
2431920	Diazinon	12.1	Spike	P	0 - 29
2431920	Difenoconazole	1.63	Spike	P	0 - 34
2431920	Dimethenamid	2.43	Spike	P	0 - 39
2431920	Dimethomorph	0.0575	Spike	P	0 - 51
2431920	Disulfoton	5.28	Spike	P	0 - 30
2431920	Dithiopyr	3.82	Spike	P	0 - 26
2431920	EPTC	16.1	Spike	P	0 - 43
2431920	Ethion	32.3	Spike	P	0 - 79
2431920	Ethoprop	1.74	Spike	P	0 - 29
2431920	Etridiazole	4.27	Spike	P	0 - 33
2431920	Fenamiphos	5.37	Spike	P	0 - 40
2431920	Fenbuconazole	5.31	Spike	P	0 - 74
2431920	Fipronil	1.48	Spike	P	0 - 29
2431920	Fipronil Desulfinyl	0.285	Spike	P	0 - 32
2431920	Fipronil Sulfide	3.59	Spike	P	0 - 30
2431920	Fipronil Sulfone	6.75	Spike	P	0 - 33
2431920	Fluazifop-P-butyl	0.744	Spike	P	0 - 38
2431920	Fludioxonil	1.78	Spike	P	0 - 29
2431920	Flumioxazin	0.583	Spike	P	0 - 51
2431920	Flutolanil	11.4	Spike	P	0 - 25
2431920	Fluxapyroxad	11.0	Spike	P	0 - 45
2431920	Fonofos	8.19	Spike	P	0 - 27
2431920	Hexabromobenzene	17.6	Spike	P	0 - 30
2431920	Hexazinone	0.596	Spike	P	0 - 30
2431920	Imazalil	3.77	Spike	P	0 - 100
2431920	Iprodione	1.49	Spike	P	0 - 33
2431920	Loratadine	9.12	Spike	P	0 - 56
2431920	Malathion	2.52	Spike	P	0 - 37
2431920	Metalaxyl	5.57	Spike	P	0 - 40
2431920	Metolachlor	3.33	Spike	P	0 - 29
2431920	Metribuzin	3.98	Spike	P	0 - 45

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P434176

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431920	Mevinphos	8.26	Spike	P	0 - 29
2431920	Molinate	7.83	Spike	P	0 - 33
2431920	Myclobutanil	1.38	Spike	P	0 - 26
2431920	Naled	1.51	Spike	P	0 - 37
2431920	Napropamide	4.21	Spike	P	0 - 44
2431920	Norflurazon	0.246	Spike	P	0 - 30
2431920	Octinoxate	1.78	Spike	P	0 - 45
2431920	Oxadiazon	2.26	Spike	P	0 - 28
2431920	Oxybenzone	3.12	Spike	P	0 - 46
2431920	Oxyfluorfen	6.04	Spike	P	0 - 28
2431920	Parathion Ethyl	7.67	Spike	P	0 - 31
2431920	Parathion Methyl	7.52	Spike	P	0 - 29
2431920	PBB-153	21.6	Spike	P	0 - 30
2431920	PBDE-47	16.0	Spike	P	0 - 36
2431920	PBDE-99	18.0	Spike	P	0 - 40
2431920	Pendimethalin	4.52	Spike	P	0 - 33
2431920	Pentabromotoluene	3.57	Spike	P	0 - 30
2431920	Phenytoin	29.2	Spike	P	0 - 100
2431920	Phorate	10.0	Spike	P	0 - 36
2431920	Prodiamine	10.7	Spike	P	0 - 71
2431920	Prometon	6.55	Spike	P	0 - 36
2431920	Prometryn	3.01	Spike	P	0 - 28
2431920	Pronamide	5.12	Spike	P	0 - 24
2431920	Propanil	3.64	Spike	P	0 - 28
2431920	Propargite	8.62	Spike	P	0 - 43
2431920	Propiconazole	5.57	Spike	P	0 - 33
2431920	Pyraflufen Ethyl	2.22	Spike	P	0 - 29
2431920	Pyridaben	5.99	Spike	P	0 - 30
2431920	Pyriproxyfen	33.5	Spike	P	0 - 79
2431920	Simazine	0.454	Spike	P	0 - 29
2431920	Stirophos	12.2	Spike	P	0 - 61
2431920	Sulfentrazone	0.178	Spike	P	0 - 33
2431920	Tebuconazole	20.4	Spike	P	0 - 69
2431920	Terbufos	0.307	Spike	P	0 - 29
2431920	Terbuthylazine	7.31	Spike	P	0 - 32
2431920	Tetradecachloro-m-terphenyl	5.18	Spike	P	0 - 30
2431920	Thiobencarb	5.30	Spike	P	0 - 26
2431920	Tri-o-cresyl Phosphate	9.74	Spike	P	0 - 33
2431920	Triadimefon	1.87	Spike	P	0 - 28
2431920	Tris(1-chloro-2-propyl) phosphate (TCPP)	1.15	Spike	P	0 - 30
2431920	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	0.682	Spike	P	0 - 30
2431920	Tris(2-chloroethyl) phosphate (TCEP)	3.02	Spike	P	0 - 30

Reference Method: EPA 8276

Batch ID: P434135

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432207	Chlordane	13.0	Spike	P	0 - 28
2432207	Toxaphene	9.06	Spike	P	0 - 27

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P434027

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431835	Acesulfame K	14.1	Spike	P	0 - 30
2431835	AMPA	0.213	Spike	P	0 - 30
2431835	Endothall	9.39	Spike	P	0 - 30
2431835	Glufosinate	6.29	Spike	P	0 - 30
2431835	Glyphosate	17.9	Spike	P	0 - 30
2431835	Sucralose	6.09	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P434161

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431707	2,4-D	2.90	Spike	P	0 - 30
2431707	2,4,5-T	10.7	Spike	P	0 - 30
2431707	Acetaminophen	6.23	Spike	P	0 - 30
2431707	Acetamiprid	52.3	Spike	F	0 - 30
2431707	Afidopyropen	24.7	Spike	P	0 - 30
2431707	Bentazon	4.63	Spike	P	0 - 30
2431707	Benzovindiflupyr	2.55	Spike	P	0 - 30
2431707	Carbamazepine	4.99	Spike	P	0 - 30
2431707	Clothianidin	0.0186	Spike	P	0 - 30
2431707	Dinotefuran	4.63	Spike	P	0 - 30
2431707	Diuron	2.30	Spike	P	0 - 30
2431707	Fenuron	0.216	Spike	P	0 - 30
2431707	Fluridone	5.00	Spike	P	0 - 30
2431707	Hydrocodone	0.866	Spike	P	0 - 30
2431707	Ibuprofen	6.53	Spike	P	0 - 30
2431707	Imazapyr	0.0360	Spike	P	0 - 30
2431707	Imidacloprid	0.853	Spike	P	0 - 30
2431707	Linuron	15.3	Spike	P	0 - 30
2431707	Mandestrobin	3.69	Spike	P	0 - 30
2431707	MCPP	0.802	Spike	P	0 - 30
2431707	Naproxen	10.6	Spike	P	0 - 30
2431707	Primidone	7.02	Spike	P	0 - 30
2431707	Pyraclostrobin	0.173	Spike	P	0 - 30
2431707	Silvex	0.931	Spike	P	0 - 30
2431707	Thiamethoxam	2.07	Spike	P	0 - 30
2431707	Tolfenpyrad	10.9	Spike	P	0 - 30
2431707	Triclopyr	7.27	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P434372

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2433691	3-Hydroxycarbofuran	74.2	Spike	F	0 - 30
2433691	Aldicarb	25.0	Spike	P	0 - 30
2433691	Aldicarb Sulfone	6.03	Spike	P	0 - 30
2433691	Aldicarb Sulfoxide	20.2	Spike	P	0 - 30
2433691	Carbaryl	6.52	Spike	P	0 - 30
2433691	Carbofuran	6.82	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P434372

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2433691	Methiocarb	15.3	Spike	P	0 - 30
2433691	Methomyl	2.41	Spike	P	0 - 30
2433691	Oxamyl	2.95	Spike	P	0 - 30
2433691	Propoxur	6.14	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P434411

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432389	Total Alkalinity	4.05	Sample	F	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P434584

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432097	TDS	5.41	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P434417

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432389	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P434339

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432102	Organic Carbon	0.744	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2432478

Field Sample ID: NEROC LAB DI WATER

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	79.8	P	30 - 160

Lab Sample ID: 2432479

Field Sample ID: NEROC LAB DI WATER

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	93.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	89.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	99.4	P	30 - 160
EPA 8321B	Diuron-d6	73.3	P	30 - 160
EPA 8321B	Endothall-d6	101	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	89.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	66.9	P	30 - 160
EPA 8321B	Primidone-d5	87.4	P	30 - 160
EPA 8321B	Sucralose-d6	34.9	P	30 - 160

Lab Sample ID: 2432482

Field Sample ID: NEROC LAB DI WATER

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	85.6	P	37 - 129
EPA 8270E	Decachlorobiphenyl	67.0	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	86.1	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	75.9	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	66.2	P	28 - 102
EPA 8276	PCNB	73.9	P	49 - 115

Lab Sample ID: 2432483

Field Sample ID: NEROC LAB DI WATER

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	70.2	P	20 - 200
EPA 8270E	Simazine-d10	82.5	P	62 - 142
EPA 8270E	Terbufos-d10	79.0	P	58 - 132
EPA 8270E	Terphenyl-d14	77.5	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A121175

Included Lab Sample IDs: 2432477

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.1	99.4	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A121177

Included Lab Sample IDs: 2432475

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.0	98.0	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1

Run ID: A121178

Included Lab Sample IDs: 2432475

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.8	101	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A121182

Included Lab Sample IDs: 2432475

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	97.7	98.4	P/P	90 - 110
Sulfate	96.8	97.5	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A121187

Included Lab Sample IDs: 2432479

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	100	115	P/P	60 - 160
Sucralose	119	120	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A121190

Included Lab Sample IDs: 2432479

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	79.0	88.6	P/P	60 - 160
Endothall	84.0	89.6	P/P	60 - 160
Glufosinate	105	91.4	P/P	60 - 160
Glyphosate	77.8	83.1	P/P	60 - 160

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A121239

Included Lab Sample IDs: 2432486

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Antimony	97.4	95.8	P/P	90 - 110
Arsenic	97.0	95.2	P/P	90 - 110
Boron	93.8	94.7	P/P	90 - 110
Cadmium	97.8	96.6	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A121239

Included Lab Sample IDs: 2432486

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chromium	96.2	95.3	P/P	90 - 110
Copper	97.2	93.8	P/P	90 - 110
Lead	91.8	90.4	P/P	90 - 110
Nickel	96.3	92.7	P/P	90 - 110
Selenium	96.3	95.7	P/P	90 - 110
Silver	98.0	96.9	P/P	90 - 110
Thallium	93.9	92.9	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A121240

Included Lab Sample IDs: 2432476

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.2	93.2	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A121241

Included Lab Sample IDs: 2432486

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	101	101	P/P	95 - 105
Calcium	102	103	P/P	95 - 105
Iron	103	103	P/P	95 - 105
Magnesium	103	104	P/P	95 - 105
Potassium	99.5	101	P/P	95 - 105
Sodium	101	102	P/P	95 - 105
Zinc	98.4	98.0	P/P	95 - 105

Reference Method: EPA 8276

Run ID: A121244

Included Lab Sample IDs: 2432482

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	107		P	80 - 120
Toxaphene	104		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A121269

Included Lab Sample IDs: 2432486

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

Reference Method: SM 2320 B-2011

Run ID: A121272

Included Lab Sample IDs: 2432475

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.3	96.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500-F- C-2011

Run ID: A121272

Included Lab Sample IDs: 2432475

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

Reference Method: EPA 8270E

Run ID: A121279

Included Lab Sample IDs: 2432482

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	95.5		P	80 - 120
Alpha-BHC	101		P	80 - 120
Alpha-Chlordane	84.1		P	80 - 120
Beta-BHC	104		P	80 - 120
Beta-Cyfluthrin	130*		F	80 - 120
Bifenthrin	111		P	80 - 120
Chlorothalonil	93.4		P	80 - 120
Cis-Nonachlor	80.9		P	80 - 120
Cypermethrin	113		P	80 - 120
Dacthal	96.0		P	80 - 120
DDD-p,p'	107		P	80 - 120
DDE-p,p'	98.9		P	80 - 120
DDT-p,p'	89.1		P	80 - 120
Delta-BHC	114		P	80 - 120
Deltamethrin	105		P	80 - 120
Dichlobenil	100		P	80 - 120
Dicofol	91.2		P	80 - 120
Dieldrin	86.2		P	80 - 120
Endosulfan I	102		P	80 - 120
Endosulfan II	102		P	80 - 120
Endosulfan Sulfate	101		P	80 - 120
Endrin	84.1		P	80 - 120
Endrin Aldehyde	89.3		P	80 - 120
Endrin Ketone	113		P	80 - 120
Esfenvalerate	111		P	80 - 120
Ethalfuralin	97.4		P	80 - 120
Fenpropathrin	106		P	80 - 120
Gamma-BHC	108		P	80 - 120
Gamma-Chlordane	84.0		P	80 - 120
Heptachlor	92.4		P	80 - 120
Heptachlor Epoxide	69.2*		F	80 - 120
Hexachlorobenzene	106		P	80 - 120
Kepone	80.1		P	80 - 120
Lambda-Cyhalothrin	116		P	80 - 120
Methoprene	111		P	80 - 120
Methoxychlor	94.0		P	80 - 120
MGK-264	106		P	80 - 120
Mirex	102		P	80 - 120
Oxychlordane	114		P	80 - 120
Permethrin	114		P	80 - 120
Phenothrin	114		P	80 - 120
Piperonyl Butoxide	106		P	80 - 120
Prallethrin	104		P	80 - 120
Tau-Fluvalinate	108		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121279
Included Lab Sample IDs: 2432482

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tetramethrin	116		P	80 - 120
Trans-Nonachlor	92.5		P	80 - 120
Triclosan Methyl	98.3		P	80 - 120
Trifluralin	132*		F	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A121292
Included Lab Sample IDs: 2432476

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.3	100	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A121295
Included Lab Sample IDs: 2432482

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	93.2		P	80 - 120
PCB-1260	96.0		P	80 - 120

Reference Method: EPA 8270E
Run ID: A121296
Included Lab Sample IDs: 2432483

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	90.0		P	80 - 120
Avobenzone	94.4		P	80 - 120
Dechlorane 602	97.6		P	80 - 120
Dechlorane 603	90.6		P	80 - 120
Dechlorane Plus	92.1		P	80 - 120
Hexabromobenzene	86.7		P	80 - 120
Octinoxate	93.3		P	80 - 120
Oxybenzone	95.0		P	80 - 120
PBB-153	86.9		P	80 - 120
PBDE-47	87.1		P	80 - 120
PBDE-99	89.9		P	80 - 120
Pentabromotoluene	93.3		P	80 - 120
Tetradecachloro-m-terphenyl	94.4		P	80 - 120
Tri-o-cresyl Phosphate	93.1		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	88.4		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	94.7		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	91.2		P	80 - 120

Reference Method: EPA 8321B
Run ID: A121324
Included Lab Sample IDs: 2432478

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	104	101	P/P	60 - 150
Aldicarb	92.0	84.8	P/P	60 - 150
Aldicarb Sulfone	105	101	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A121324
Included Lab Sample IDs: 2432478

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldicarb Sulfoxide	101	108	P/P	50 - 150
Carbaryl	97.8	101	P/P	60 - 150
Carbofuran	110	110	P/P	50 - 150
Methiocarb	108	105	P/P	50 - 150
Methomyl	101	106	P/P	50 - 150
Oxamyl	107	106	P/P	50 - 150
Propoxur	119	119	P/P	50 - 150

Reference Method: EPA 8321B
Run ID: A121350
Included Lab Sample IDs: 2432479

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	84.8	82.7	P/P	50 - 150
2,4,5-T	90.2	91.5	P/P	50 - 150
Acetaminophen	109	105	P/P	60 - 160
Acetamiprid	120	119	P/P	50 - 150
Afidopyropen	120	120	P/P	50 - 150
Bentazon	128	132	P/P	50 - 160
Benzovindiflupyr	115	117	P/P	50 - 150
Carbamazepine	110	112	P/P	60 - 150
Clothianidin	106	114	P/P	60 - 150
Dinotefuran	107	112	P/P	50 - 150
Diuron	105	108	P/P	60 - 160
Fenuron	113	113	P/P	60 - 150
Fluridone	108	106	P/P	60 - 160
Hydrocodone	126	128	P/P	60 - 150
Ibuprofen	102	91.0	P/P	50 - 160
Imazapyr	98.9	99.0	P/P	50 - 150
Imidacloprid	99.7	99.0	P/P	60 - 150
Linuron	100	109	P/P	60 - 150
Mandestrobin	116	124	P/P	50 - 150
MCPP	84.3	88.5	P/P	50 - 150
Naproxen	67.6	121	P/P	50 - 160
Primidone	99.3	105	P/P	60 - 150
Pyraclostrobin	118	120	P/P	60 - 150
Silvex	90.7	94.4	P/P	50 - 150
Thiamethoxam	118	121	P/P	50 - 150
Tolfenpyrad	105	106	P/P	60 - 150
Triclopyr	86.6	79.8	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A121359
Included Lab Sample IDs: 2432476

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A121374
 Included Lab Sample IDs: 2432483

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	89.3		P	80 - 120
Alachlor	85.8		P	80 - 120
Ametryn	100		P	80 - 120
Atrazine	102		P	80 - 120
Atrazine Desethyl	98.3		P	80 - 120
Azinphos Methyl	96.2		P	80 - 120
Azoxystrobin	98.4		P	80 - 120
Bromacil	96.4		P	80 - 120
Butylate	104		P	80 - 120
Caffeine	96.0		P	80 - 120
Carbophenothion	100		P	80 - 120
Carfentrazone Ethyl	99.9		P	80 - 120
Chlorfenapyr	89.3		P	80 - 120
Chlorpyrifos Ethyl	89.5		P	80 - 120
Chlorpyrifos Methyl	97.9		P	80 - 120
Coumaphos	99.2		P	80 - 120
Cyanazine	102		P	80 - 120
Cyprodinil	90.7		P	80 - 120
Demeton	102		P	80 - 120
Diazinon	103		P	80 - 120
Difenoconazole	98.7		P	80 - 120
Dimethenamid	95.8		P	80 - 120
Dimethomorph	108		P	80 - 120
Disulfoton	102		P	80 - 120
Dithiopyr	107		P	80 - 120
EPTC	103		P	80 - 120
Ethion	88.7		P	80 - 120
Ethoprop	109		P	80 - 120
Etridiazole	101		P	80 - 120
Fenamiphos	99.1		P	80 - 120
Fenbuconazole	84.9		P	80 - 120
Fipronil	86.3		P	80 - 120
Fipronil Desulfinyl	100		P	80 - 120
Fipronil Sulfide	102		P	80 - 120
Fipronil Sulfone	95.9		P	80 - 120
Fluazifop-P-butyl	93.5		P	80 - 120
Fludioxonil	105		P	80 - 120
Flumioxazin	95.9		P	80 - 120
Flutolanil	97.2		P	80 - 120
Fluxapyroxad	96.1		P	80 - 120
Fonofos	100		P	80 - 120
Hexazinone	99.4		P	80 - 120
Imazalil	99.2		P	80 - 120
Iprodione	80.7		P	80 - 120
Loratadine	89.3		P	80 - 120
Malathion	85.7		P	80 - 120
Metalaxyl	92.0		P	80 - 120
Metolachlor	102		P	80 - 120
Metribuzin	100		P	80 - 120
Mevinphos	90.3		P	80 - 120
Molinate	87.6		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121374
Included Lab Sample IDs: 2432483

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Myclobutanil	95.2		P	80 - 120
Naled	97.1		P	80 - 120
Napropamide	102		P	80 - 120
Norflurazon	102		P	80 - 120
Oxadiazon	102		P	80 - 120
Oxyfluorfen	87.5		P	80 - 120
Parathion Ethyl	96.3		P	80 - 120
Parathion Methyl	85.6		P	80 - 120
Pendimethalin	109		P	80 - 120
Phenytol	98.3		P	80 - 120
Phorate	101		P	80 - 120
Prodiamine	97.1		P	80 - 120
Prometon	92.8		P	80 - 120
Prometryn	92.2		P	80 - 120
Pronamide	108		P	80 - 120
Propanil	90.5		P	80 - 120
Propargite	98.6		P	80 - 120
Propiconazole	84.1		P	80 - 120
Pyraflufen Ethyl	102		P	80 - 120
Pyridaben	99.8		P	80 - 120
Pyriproxyfen	103		P	80 - 120
Simazine	120		P	80 - 120
Stirophos	84.5		P	80 - 120
Sulfentrazone	98.2		P	80 - 120
Tebuconazole	102		P	80 - 120
Terbufos	92.2		P	80 - 120
Terbutylazine	89.5		P	80 - 120
Thiobencarb	106		P	80 - 120
Triadimefon	95.0		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A121424
Included Lab Sample IDs: 2432476

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.5	99.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A121429
Included Lab Sample IDs: 2432476

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	106	P/P	90 - 110

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	102					3.00	
EPA 180.1 Rev. 2.0	Turbidity	98.2					1.71	
EPA 200.7 Rev. 4.4	Barium	104	106	106	96.6			0.255
	Calcium	104	104	102	101			1.75
	Iron	104	107	105	97.6			1.84
	Magnesium	104	106	105	103			1.51
	Potassium	101	104	104	93.2			0.607
	Sodium	105	106	106	104			0.0319
	Zinc	99.5	102	102	92.9			0.111
EPA 200.8 Rev. 5.4	Aluminum	98.1	97.8	97.9	94.5			0.102
	Antimony	98.4	98.4	98.2	100			0.209
	Arsenic	95.5	95.1	95.3	94.3			0.165
	Boron	98.8	98.2	98.3	98.9			0.108
	Cadmium	98.1	98.3	97.5	98.3			0.901
	Chromium	94.8	94.5	94.3	93.4			0.227
	Copper	94.4	97.1	96.3	96.6			0.748
	Lead	92.3	92.1	91.5	97.5			0.619
	Nickel	93.0	93.8	93.6	90.3			0.151
	Selenium	96.4	96.5	96.2	92.4			0.246
	Silver	113	111	109	108			1.22
	Thallium	95.9	96.7	97.6	99.2			0.844
EPA 300.0 Rev. 2.1	Chloride	98.1	101	98.2			0.0772	
	Sulfate	95.7	97.6	95.4			0.100	
EPA 350.1 Rev. 2.0	Ammonia-N	96.6	97.8	98.6				0.749
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	97.5	101				2.27
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100	98.8	99.3				0.312
EPA 365.1 Rev. 2.0	Total-P	107	108	107				0.862
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.7	97.4	98.9				1.53
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	52.1	64.5	75.5				15.8
	Acetochlor	79.1	81.1	80.5				0.758
	Alachlor	82.6	70.6	72.1				2.20
	Aldrin	38.0	45.1	43.2				4.41
	Alpha-BHC	89.5	73.4	84.7				14.2
	Alpha-Chlordane	66.2	68.7	83.4				19.4
	Ametryn	119	140	128				8.67
	Atrazine	98.9	94.9	87.3				5.70
	Atrazine Desethyl	96.0	100	93.2				7.41
	Avobenzone	91.0	117	121				2.76
	Azinphos Methyl	147	135	134				0.581
	Azoxystrobin	114	114	102				11.3
	Beta-BHC	89.7	77.2	93.0				18.5
	Beta-Cyfluthrin	52.9	71.0	71.7				1.06
	Bifenthrin	40.9	40.2	47.3				16.2
	Bromacil	96.5	102	94.6				7.90
	Butylate	59.0	40.4	48.4				18.1
	Caffeine	180	134	113				15.4
	Carbophenothion	95.8	89.8	94.6				5.23
	Carfentrazone Ethyl	104	98.9	98.3				0.602
	Chlorfenapyr	91.7	73.4	74.6				1.61
	Chlorothalonil	94.5	60.2	68.2				12.5
	Chlorpyrifos Ethyl	78.1	76.7	72.4				5.80
	Chlorpyrifos Methyl	105	99.5	102				2.37

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Cis-Nonachlor	77.8	65.5	61.2		6.80
	Coumaphos	147	136	134		1.64
	Cyanazine	117	109	119		9.22
	Cypermethrin	48.0	41.6	43.7		5.00
	Cyprodinil	87.0	77.8	68.7		12.5
	Dacthal	78.1	75.2	70.9		5.98
	DDD-p,p'	57.3	61.9	56.5		9.11
	DDE-p,p'	42.7	55.5	60.5		8.52
	DDT-p,p'	52.0	52.0	54.6		4.92
	Dechlorane 602	53.7	55.7	71.7		25.1
	Dechlorane 603	69.5	82.5	93.2		12.2
	Dechlorane Plus	65.8	78.2	81.6		4.21
	Delta-BHC	86.3	76.9	84.7		9.70
	Deltamethrin	60.9	60.6	57.0		6.20
	Demeton	69.4	67.8	66.5		1.99
	Diazinon	92.3	95.3	84.4		12.1
	Dichlobenil	51.9	55.3	64.4		15.2
	Dicofol	70.1	66.4	61.6		7.54
	Dieldrin	51.0	56.3	54.6		2.95
	Difenoconazole	142	126	128		1.63
	Dimethenamid	87.0	90.6	88.4		2.43
	Dimethomorph	258	211	211		0.0575
	Disulfoton	95.0	93.5	98.6		5.28
	Dithiopyr	81.4	85.8	89.1		3.82
	Endosulfan I	72.9	68.8	77.6		12.0
	Endosulfan II	81.5	63.6	68.7		7.70
	Endosulfan Sulfate	72.9	72.0	70.9		1.55
	Endrin	57.6	57.1	44.7		24.2
	Endrin Aldehyde	60.0	47.2	44.1		6.91
	Endrin Ketone	83.5	80.6	74.6		7.80
	EPTC	54.6	38.7	45.5		16.1
	Esfenvalerate	49.0	50.0	52.6		4.93
	Ethalfuralin	56.9	68.2	57.3		17.4
	Ethion	58.0	42.0	58.3		32.3
	Ethoprop	97.1	90.1	91.7		1.74
	Etridiazole	54.2	49.0	51.2		4.27
	Fenamiphos	95.7	78.6	74.5		5.37
	Fenbuconazole	107	80.8	76.6		5.31
	Fenpropathrin	56.5	45.7	57.1		22.2
	Fipronil	92.4	92.2	90.9		1.48
	Fipronil Desulfinyl	80.5	81.1	81.3		0.285
	Fipronil Sulfide	92.3	90.5	87.3		3.59
	Fipronil Sulfone	80.9	88.2	82.5		6.75
	Fluazifop-P-butyl	92.2	83.1	82.5		0.744
	Fludioxonil	91.5	89.3	87.7		1.78
	Flumioxazin	140	143	144		0.583
	Flutolanil	80.3	84.9	75.8		11.4
	Fluxapyroxad	81.7	74.4	83.1		11.0
	Fonofos	101	90.1	83.0		8.19
	Gamma-BHC	67.2	65.7	73.5		11.2
	Gamma-Chlordane	40.4	47.8	54.8		13.5
	Heptachlor	49.8	58.3	59.1		1.31
	Heptachlor Epoxide	75.6	69.4	64.6		7.21
	Hexabromobenzene	53.6	58.9	70.3		17.6

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Hexachlorobenzene	66.6	62.1	65.3		5.09
	Hexazinone	94.0	89.8	90.3		0.596
	Imazalil	78.8	75.9	73.1		3.77
	Iprodione	96.0	74.7	73.6		1.49
	Kepone	55.2	36.5	33.0		10.3
	Lambda-Cyhalothrin	51.5	47.8	55.4		14.8
	Loratadine	158	149	136		9.12
	Malathion	96.1	86.3	84.1		2.52
	Metalaxyl	76.3	87.8	83.0		5.57
	Methoprene	25.7	32.3	39.3		19.3
	Methoxychlor	73.5	56.6	56.5		0.207
	Metolachlor	111	92.1	95.5		3.33
	Metribuzin	103	100	105		3.98
	Mevinphos	94.7	89.2	82.2		8.26
	MGK-264	63.7	59.0	61.8		4.49
	Mirex	65.3	52.3	55.2		5.41
	Molinate	59.6	48.4	52.3		7.83
	Myclobutanil	106	92.6	91.3		1.38
	Naled	52.3	39.6	40.2		1.51
	Napropamide	81.9	77.1	73.9		4.21
	Norflurazon	87.8	83.2	83.0		0.246
	Octinoxate	71.2	97.8	99.6		1.78
	Oxadiazon	80.4	76.6	74.9		2.26
	Oxybenzone	69.1	104	101		3.12
	Oxychlordane	49.4	44.4	50.5		12.7
	Oxyfluorfen	105	93.6	99.4		6.04
	Parathion Ethyl	96.6	83.5	90.1		7.67
	Parathion Methyl	97.0	92.3	85.7		7.52
	PBB-153	59.1	61.9	76.9		21.6
	PBDE-47	53.7	69.5	81.6		16.0
	PBDE-99	52.9	59.8	71.7		18.0
	PCB-1016	71.6	58.2	51.1		12.9
	PCB-1260	69.5	63.5	71.8		12.4
	Pendimethalin	104	97.3	93.0		4.52
	Pentabromotoluene	55.6	80.3	83.2		3.57
	Permethrin	62.7	64.9	57.1		12.8
	Phenothrin	55.4	40.4	36.8		9.44
	Phenytoin	40.4	55.0	73.9		29.2
	Phorate	95.4	87.1	96.2		10.0
	Piperonyl Butoxide	55.9	56.1	75.2		29.2
	Prallethrin	36.1	51.9	45.6		12.9
	Prodiamine	48.0	35.4	31.8		10.7
	Prometon	95.7	94.8	88.8		6.55
	Prometryn	91.3	94.4	97.3		3.01
	Pronamide	101	100	105		5.12
	Propanil	117	120	116		3.64
	Propargite	74.8	73.9	80.5		8.62
	Propiconazole	93.7	71.8	75.9		5.57
	Pyraflufen Ethyl	98.0	84.1	85.9		2.22
	Pyridaben	120	94.4	105		5.99
	Pyriproxyfen	86.6	61.4	86.1		33.5
	Simazine	114	102	102		0.454
	Stirophos	56.4	45.1	51.0		12.2
	Sulfentrazone	78.8	111	111		0.178

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Tau-Fluvalinate	54.2	54.2	59.8		9.85
	Tebuconazole	70.2	57.9	71.1		20.4
	Terbufos	97.3	103	102		0.307
	Terbuthylazine	76.8	80.3	74.7		7.31
	Tetradecachloro-m-terphenyl	54.3	88.3	93.0		5.18
	Tetramethrin	75.0	60.9	65.4		7.12
	Thiobencarb	92.1	89.2	84.6		5.30
	Trans-Nonachlor	55.1	67.2	64.4		4.35
	Tri-o-cresyl Phosphate	68.1	87.1	96.0		9.74
	Triadimefon	80.1	80.4	81.9		1.87
	Triclosan Methyl	72.3	72.0	80.7		11.5
	Trifluralin	55.9	62.2	55.7		11.2
	Tris(1-chloro-2-propyl) phosphate (TCPP)	70.9	113	112		1.15
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	65.3	96.9	96.2		0.682
	Tris(2-chloroethyl) phosphate (TCEP)	71.8	91.5	94.3		3.02
EPA 8276	Chlordane	88.8	90.2	103		13.0
	Toxaphene	94.2	113	124		9.06
EPA 8321B	2,4-D	87.1	84.7	87.4		2.90
	2,4,5-T	92.5	115	128		10.7
	3-Hydroxycarbofuran	43.2	56.2	25.8		74.2
	Acesulfame K	103	105	90.9		14.1
	Acetaminophen	104	68.5	72.9		6.23
	Acetamiprid	106	43.8	25.6		52.3
	Afidopyropen	82.8	76.8	59.9		24.7
	Aldicarb	47.8	62.7	48.7		25.0
	Aldicarb Sulfone	86.2	90.9	85.6		6.03
	Aldicarb Sulfoxide	87.9	30.6	25.0		20.2
	AMPA	139	159	158		0.213
	Bentazon	135				4.63
	Benzovindiflupyr	119	102	99.8		2.55
	Carbamazepine	92.6	48.6	51.0		4.99
	Carbaryl	63.7	67.8	63.5		6.52
	Carbofuran	76.5	63.7	59.5		6.82
	Clothianidin	104	54.3	54.3		0.0186
	Dinotefuran	102	31.9	33.4		4.63
	Diuron	104	44.5	43.5		2.30
	Endothall	85.5	100	91.4		9.39
	Fenuron	113	25.7	25.6		0.216
	Fluridone	95.0	55.9	53.1		5.00
	Glufosinate	82.2	84.8	79.7		6.29
	Glyphosate	85.3	55.7	66.7		17.9
	Hydrocodone	110	40.9	41.3		0.866
	Ibuprofen	79.7	63.1	67.4		6.53
	Imazapyr	87.9				0.0360
	Imidacloprid	93.9	74.8	75.5		0.853
	Linuron	86.4	59.3	50.9		15.3
	Mandestrobin	125	98.6	95.0		3.69
	MCPP	98.8	116	117		0.802
	Methiocarb	65.3	71.2	61.1		15.3
	Methomyl	82.1	72.0	70.3		2.41
	Naproxen	75.9	108	96.8		10.6

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 8321B	Oxamyl	90.8	78.4	76.1		
	Primidone	98.0	49.1	45.8		
	Propoxur	85.9	66.8	62.8		
	Pyraclostrobin	96.8	87.5	87.4		
	Silvex	92.4	135	136		
	Sucralose	111	113	107		
	Thiamethoxam	107	45.5	46.5		
	Tolfenpyrad	64.6	55.7	62.1		
	Triclopyr	110	134	125		
SM 2320 B-2011	Total Alkalinity	96.8				4.05
SM 2540 C-2015	TDS	96.8				5.41
SM 2540 D-2015	TSS	93.9				
SM 4500-F- C-2011	Fluoride	97.4	100	100		
SM 5310 B-2011	Organic Carbon	93.0	98.0	97.0		

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2432475
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2432475
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2432486
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2432486
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2432475
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2432475
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2432476
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2432476
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2432476
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2432476
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2432477
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2432483
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2432482
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2432483
EPA 8270E	PCBs in water matrices by GC/MS/MS	2432482
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2432482
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2432478
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2432479
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2432475
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2432486
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2432475
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2432475
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2432475
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2432476

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	08/22/2023			08/22/2023 15:51	Alexis Price	2432475
EPA 180.1 Rev. 2.0	08/22/2023			08/22/2023 12:34	Chandler E Cox	2432475
EPA 200.7 Rev. 4.4	08/22/2023	08/23/2023 13:25	George D Taylor	08/24/2023 17:42	McKinley C Carter	2432486
EPA 200.8 Rev. 5.4	08/22/2023	08/23/2023 13:25	George D Taylor	08/24/2023 15:14	Emily M Philpot	2432486
	08/22/2023	08/23/2023 13:25	George D Taylor	08/25/2023 13:39	Conrad Hartmann	2432486
EPA 300.0 Rev. 2.1	08/22/2023			08/24/2023 15:46	James L Waggeberby	2432475
EPA 350.1 Rev. 2.0	08/22/2023			08/28/2023 11:57	Ping Hua	2432476
EPA 351.2 Rev. 2.0	08/22/2023	09/08/2023 10:05	Simonne.V. Calhoun	09/08/2023 15:11	Samantha L Bates	2432476
EPA 353.2 Rev. 2.0	08/22/2023			09/07/2023 12:52	Anna M. Plaviak	2432476
EPA 365.1 Rev. 2.0	08/22/2023	08/29/2023 15:30	Adam P Silver	09/05/2023 13:02	Chandler E Cox	2432476
EPA 365.1 Rev. 2.0 dissolved	08/22/2023			08/22/2023 15:06	Elise M. Gillis	2432477
EPA 8270E	08/22/2023	08/23/2023 08:00	Fe-Val Siddell	08/25/2023 22:17	Vandana T. Nagar	2432482
	08/22/2023	08/23/2023 08:00	Fe-Val Siddell	08/28/2023 21:12	Vandana T. Nagar	2432482
	08/22/2023	08/23/2023 08:30	Rasheda Ghaffari	08/25/2023 17:08	Vandana T. Nagar	2432483
	08/22/2023	08/23/2023 08:30	Rasheda Ghaffari	08/28/2023 20:23	Arthur Maknenko	2432483
EPA 8276	08/22/2023	08/23/2023 08:00	Fe-Val Siddell	08/25/2023 08:25	Arthur Maknenko	2432482
EPA 8321B	08/22/2023	08/22/2023 10:30	Hana Lee	08/22/2023 10:31	Tae K Lee	2432479
	08/22/2023	08/22/2023 10:30	Hana Lee	08/22/2023 20:08	Tae K Lee	2432479
	08/22/2023	08/23/2023 09:00	Hoor Shaik	09/02/2023 00:04	Juyoung Kim	2432479
	08/22/2023	08/28/2023 09:00	Hoor Shaik	08/29/2023 21:19	Juyoung Kim	2432478
SM 2320 B-2011	08/22/2023			08/27/2023 19:07	Dale L. Simmons	2432475
SM 2340 B-2011	08/22/2023			08/24/2023 17:42	McKinley C Carter	2432486
SM 2540 C-2015	08/22/2023			08/23/2023 16:38	Yijie Li	2432475
SM 2540 D-2015	08/22/2023			08/23/2023 16:38	Yijie Li	2432475
SM 4500-F- C-2011	08/22/2023			08/27/2023 19:07	Dale L. Simmons	2432475
SM 5310 B-2011	08/22/2023			08/24/2023 20:20	Elise M. Gillis	2432476