

Chemical Analysis Report

NE-DIST-2023-12-14-02

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

Event Description: **Suwannee East 2023**
Request ID: **RQ-2023-12-11-13**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Suite 100
Jacksonville, FL 32256
Attn: Jeremy Parrish

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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 11-JAN-2024 16:13



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: 12/13/2023 10:40

Field ID: 21030071

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2457100	EPA 8321B	Aldicarb	0.020	U	ug/L	P438952	
		Aldicarb Sulfone	0.0020	U	ug/L	P438952	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P438952	
		Carbaryl	0.0020	U	ug/L	P438952	
		Carbofuran	0.0020	U	ug/L	P438952	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P438952	
		Methiocarb	0.0020	U	ug/L	P438952	
		Methomyl	0.0020	U	ug/L	P438952	
		Oxamyl	0.0020	U	ug/L	P438952	
		Propoxur	0.0020	U	ug/L	P438952	
2457101		Acesulfame K	0.10	U	ug/L	P439028	
		2,4-D	0.0020	U	ug/L	P439060	
		AMPA	0.10	U	ug/L	P439028	
		2,4,5-T	0.0040	U	ug/L	P439060	
		Acetaminophen	0.0080	U	ug/L	P439060	
		Endothall	0.25	U	ug/L	P439028	
		Acetamiprid	0.0020	U	ug/L	P439060	
		Glufosinate	0.10	U	ug/L	P439028	
		Glyphosate	0.10	U	ug/L	P439028	
		Afidopyropen	0.0020	U	ug/L	P439060	
		Sucralose	0.019	I	ug/L	P439028	
		Bentazon	8.0E-04	U	ug/L	P439060	
		Benzovindiflupyr	0.0020	U	ug/L	P439060	
		Carbamazepine	8.0E-04	U	ug/L	P439060	
		Clothianidin	0.0020	U	ug/L	P439060	
		Dinotefuran	0.0020	U	ug/L	P439060	
		Diuron	0.0020	U	ug/L	P439060	
		Fenuron	0.032	U	ug/L	P439060	
		Fluridone	8.0E-04	U	ug/L	P439060	
		Imazapyr	0.40		ug/L	P439060	
		Hydrocodone	0.0020	U	ug/L	P439060	
		Ibuprofen	0.080	U	ug/L	P439060	
		Imidacloprid	0.0020	U	ug/L	P439060	
		Linuron	0.0040	U	ug/L	P439060	
		Mandestrobin	0.0020	U	ug/L	P439060	
		MCPP	0.0020	U	ug/L	P439060	
		Naproxen	0.0080	U	ug/L	P439060	
		Primidone	0.0040	U	ug/L	P439060	
		Pyraclostrobin	0.0020	U	ug/L	P439060	
		Silvex	0.0040	U	ug/L	P439060	
		Thiamethoxam	0.0020	U	ug/L	P439060	
		Tolfenpyrad	0.0020	U	ug/L	P439060	
		Triclopyr	0.0040	U	ug/L	P439060	
2457103	EPA 8270E	Aldrin	0.67	U	ng/L	P439306	

Field ID: 21030071

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2457103	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P439306	
		Alpha-Chlordane	0.21	U	ng/L	P439306	
		PCB-1016	2.1	U	ng/L	P439306	
		Beta-BHC	0.10	U	ng/L	P439306	
		PCB-1221	2.1	U	ng/L	P439306	
		Beta-Cyfluthrin	1.3	U	ng/L	P439306	
		PCB-1232	2.1	U	ng/L	P439306	
		Bifenthrin	0.52	U	ng/L	P439306	
		PCB-1242	2.1	U	ng/L	P439306	
		PCB-1248	2.1	U	ng/L	P439306	
		Chlorothalonil	3.7	U	ng/L	P439306	
		PCB-1254	2.1	U	ng/L	P439306	
		Cis-Nonachlor	0.21	U	ng/L	P439306	
		PCB-1260	2.1	U	ng/L	P439306	
		Cypermethrin	1.5	U	ng/L	P439306	
		Dacthal	0.15	U	ng/L	P439306	RPD
		DDD-p,p'	0.26	U	ng/L	P439306	
		DDE-p,p'	0.21	U	ng/L	P439306	
		DDT-p,p'	0.83	U	ng/L	P439306	
		Delta-BHC	0.41	U	ng/L	P439306	
		Deltamethrin	1.3	U	ng/L	P439306	
		Dichlobenil	0.26	U	ng/L	P439306	
		Dicofol	1.3	U	ng/L	P439306	
		Dieldrin	0.41	U	ng/L	P439306	
		Endosulfan I	0.41	U	ng/L	P439306	
		Endosulfan II	0.93	U	ng/L	P439306	
		Endosulfan Sulfate	0.31	U	ng/L	P439306	
		Endrin	0.93	U	ng/L	P439306	
		Endrin Aldehyde	0.77	U	ng/L	P439306	
		Endrin Ketone	0.41	U	ng/L	P439306	
		Esfenvalerate	0.77	U	ng/L	P439306	
		Ethalfuralin	0.15	U	ng/L	P439306	MS
		Fenpropathrin	0.26	U	ng/L	P439306	
		Gamma-BHC	0.13	U	ng/L	P439306	
		Gamma-Chlordane	0.21	U	ng/L	P439306	
		Heptachlor	0.21	U	ng/L	P439306	RPD
		Heptachlor Epoxide	0.26	U	ng/L	P439306	MS
		Hexachlorobenzene**	1.0	U	ng/L	P439306	
		Kepone	14	U	ng/L	P439306	
		Lambda-Cyhalothrin	0.77	U	ng/L	P439306	
		Methoprene	0.77	U	ng/L	P439306	MS
		Methoxychlor	0.31	U	ng/L	P439306	
		MGK-264	0.21	UJ	ng/L	P439306	LCS
		Mirex	0.36	U	ng/L	P439306	
		Oxychlordane	0.31	U	ng/L	P439306	MS

Field ID: 21030071

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2457103	EPA 8270E	Permethrin	1.7	U	ng/L	P439306	
		Phenothrin	0.93	U	ng/L	P439306	
		Piperonyl Butoxide	0.15	U	ng/L	P439306	
		Prallethrin	2.1	U	ng/L	P439306	RPD
		Tau-Fluvalinate	0.26	U	ng/L	P439306	
		Tetramethrin	0.77	U	ng/L	P439306	
		Trans-Nonachlor	0.21	U	ng/L	P439306	
		Triclosan Methyl	0.15	UJ	ng/L	P439306	LCS
		Trifluralin	0.21	U	ng/L	P439306	
		Chlordane	2.1	U	ng/L	P439306	
	EPA 8276	Toxaphene	15	U	ng/L	P439306	
		Oxybenzone**	10	U	ng/L	P439022	
		Acetochlor	0.20	U	ng/L	P439022	
		Octinoxate**	150	U	ng/L	P439022	
		Alachlor	0.41	U	ng/L	P439022	
		Avobenzone**	100	U	ng/L	P439022	
		Ametryn	1.1	U	ng/L	P439022	
		Atrazine	0.20	U	ng/L	P439022	
		PBDE-47**	4.1	U	ng/L	P439022	
		Atrazine Desethyl	1.3	U	ng/L	P439022	
2457104	EPA 8270E	PBDE-99**	5.1	U	ng/L	P439022	
		Azinphos Methyl	3.1	U	ng/L	P439022	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P439022	
		Azoxystrobin	0.41	U	ng/L	P439022	
		Bromacil	0.61	U	ng/L	P439022	
		2-Ethylhexyl	12	U	ng/L	P439022	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.46	U	ng/L	P439022	
		Dechlorane Plus**	31	U	ng/L	P439022	
		Caffeine**	7.7	U	ng/L	P439022	
		Dechlorane 602**	5.1	U	ng/L	P439022	
		Carbophenothion	0.51	U	ng/L	P439022	
		Dechlorane 603**	4.1	U	ng/L	P439022	
		Carfentrazone Ethyl	0.15	U	ng/L	P439022	
		Hexabromobenzene**	6.1	U	ng/L	P439022	
		Chlorfenapyr	0.31	U	ng/L	P439022	
		PBB-153**	6.1	U	ng/L	P439022	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P439022	
		Pentabromotoluene**	3.1	U	ng/L	P439022	
		Chlorpyrifos Methyl	0.10	UJ	ng/L	P439022	LCS
		Tris(2-chloroethyl) phosphate (TCEP)**	56	U	ng/L	P439022	MS
		Coumaphos	1.1	U	ng/L	P439022	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	26	U	ng/L	P439022	
		Cyanazine	5.1	UJ	ng/L	P439022	CCV
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P439022	

Field ID: 21030071

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2457104	EPA 8270E	Cyprodinil	0.20	U	ng/L	P439022	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P439022	
		Demeton	3.6	U	ng/L	P439022	
		Diazinon	0.13	U	ng/L	P439022	
		Difenoconazole	0.61	U	ng/L	P439022	
		Dimethenamid	0.10	U	ng/L	P439022	
		Dimethomorph	0.31	U	ng/L	P439022	
		Disulfoton	0.61	U	ng/L	P439022	
		Dithiopyr	1.0	UJ	ng/L	P439022	CCV, LCS
		EPTC	0.51	U	ng/L	P439022	
		Ethion	0.31	U	ng/L	P439022	
		Ethoprop	0.13	U	ng/L	P439022	
		Etridiazole	0.10	U	ng/L	P439022	
		Fenamiphos	0.46	U	ng/L	P439022	
		Fenbuconazole	0.51	U	ng/L	P439022	
		Fipronil	0.20	U	ng/L	P439022	
		Fipronil DesulfinyI**	0.10	U	ng/L	P439022	
		Fipronil Sulfide	0.10	U	ng/L	P439022	
		Fipronil Sulfone	0.10	U	ng/L	P439022	
		Fluazifop-P-butyl	0.10	U	ng/L	P439022	
		Fludioxonil	0.10	U	ng/L	P439022	
		Flumioxazin	3.1	U	ng/L	P439022	
		Flutolanil	0.10	U	ng/L	P439022	
		Fluxapyroxad	0.26	U	ng/L	P439022	
		Fonofos	0.15	U	ng/L	P439022	
		Hexazinone	0.51	U	ng/L	P439022	
		Imazalil	0.67	U	ng/L	P439022	
		Iprodione	0.51	U	ng/L	P439022	
		Loratadine**	0.31	U	ng/L	P439022	
		Malathion	0.36	U	ng/L	P439022	
		Metalaxyl	0.51	U	ng/L	P439022	
		Metolachlor	0.77	UJ	ng/L	P439022	LCS
		Metribuzin	0.41	U	ng/L	P439022	
		Mevinphos	1.0	U	ng/L	P439022	
		Molinate	0.26	U	ng/L	P439022	
		Myclobutanil	0.36	U	ng/L	P439022	
		Naled	2.6	U	ng/L	P439022	
		Napropamide	0.72	U	ng/L	P439022	
		Norflurazon	1.0	U	ng/L	P439022	
		Oxadiazon	0.36	U	ng/L	P439022	
		Oxyfluorfen	0.20	U	ng/L	P439022	
		Parathion Ethyl	0.15	U	ng/L	P439022	
		Parathion Methyl	0.20	U	ng/L	P439022	
		Pendimethalin	1.7	U	ng/L	P439022	
		Phenytain**	5.4	U	ng/L	P439022	

Field ID: 21030071

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2457104	EPA 8270E	Phorate	0.26	U	ng/L	P439022	
		Prodiamine	0.20	U	ng/L	P439022	
		Prometon	3.1	U	ng/L	P439022	
		Prometryn	0.36	U	ng/L	P439022	
		Pronamide	0.10	U	ng/L	P439022	
		Propanil	0.10	U	ng/L	P439022	
		Propargite	0.82	U	ng/L	P439022	
		Propiconazole	0.61	U	ng/L	P439022	
		Pyraflufen Ethyl	0.31	UJ	ng/L	P439022	CCV
		Pyridaben	1.4	UJ	ng/L	P439022	CCV
		Pyriproxyfen	0.26	U	ng/L	P439022	
		Simazine	0.26	U	ng/L	P439022	
		Stirophos	0.41	U	ng/L	P439022	
		Sulfentrazone	1.4	U	ng/L	P439022	
		Tebuconazole	1.4	U	ng/L	P439022	
		Terbufos	0.20	U	ng/L	P439022	
		Terbutylazine	0.20	UJ	ng/L	P439022	LCS, MS
		Thiobencarb	0.51	U	ng/L	P439022	
		Triadimefon	0.15	UJ	ng/L	P439022	LCS

Ref. Method and Comment:

EPA 8321B: MS accuracy for glyphosate could not be assessed due to high concentration of parameter in the spiked 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.

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

Sample Location: FB

Collection Date/Time: 12/13/2023 10:45

Field ID: FB_12132023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2457102	EPA 8321B	Aldicarb	0.020	U	ug/L	P438952	
		Aldicarb Sulfone	0.0020	U	ug/L	P438952	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P438952	
		Carbaryl	0.0020	U	ug/L	P438952	
		Carbofuran	0.0020	U	ug/L	P438952	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P438952	
		Methiocarb	0.0020	U	ug/L	P438952	
		Methomyl	0.0020	U	ug/L	P438952	
		Oxamyl	0.0020	U	ug/L	P438952	
		Propoxur	0.0020	U	ug/L	P438952	

Sample Location: Rocky Creek at 156th Av

Collection Date/Time: 12/13/2023 12:05

Field ID: G1NE0020

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2457093	DEP SOP: NU-094-1	Color (true)	210		PCU	P439000	
	EPA 180.1 Rev. 2.0	Turbidity	0.75	IA	NTU	P439416	
	EPA 300.0 Rev. 2.1	Chloride	18	A	mg Cl/L	P439205	
		Sulfate	3.3		mg SO4/L	P439409	
	SM 2320 B-2011	Total Alkalinity	34		mg CaCO3/L	P439285	
	SM 2540 C-2015	TDS	129		mg/L	P439432	
	SM 2540 D-2015	TSS	2	U	mg/L	P439347	
2457094	SM 4500-F- C-2011	Fluoride	0.12		mg F/L	P439291	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	I	mg N/L	P439219	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.70		mg N/L	P439488	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P439165	
	EPA 365.1 Rev. 2.0	Total-P	0.15		mg P/L	P439047	
2457105	SM 5310 B-2014	Organic Carbon	25		mg C/L	P439359	
	EPA 200.7 Rev. 4.4	Calcium	15.4		mg/L	P439098	
		Iron	390		ug/L	P439098	
		Magnesium	5.49		mg/L	P439098	
		Potassium	2.1		mg/L	P439098	
		Sodium	6.3		mg/L	P439098	
		Strontium	22.8		ug/L	P439098	
		Tin	3.0	U	ug/L	P439098	
		Titanium	1.2	I	ug/L	P439098	
		Vanadium	2.0	U	ug/L	P439098	
		Zinc	5.0	U	ug/L	P439098	
	EPA 200.8 Rev. 5.4	Aluminum	194		ug/L	P439098	
		Antimony	0.052	I	ug/L	P439098	
		Arsenic	0.55		ug/L	P439098	
		Barium	8.49		ug/L	P439098	
		Beryllium	0.024	I	ug/L	P439098	
		Boron	24.9		ug/L	P439098	
		Cadmium	0.020	U	ug/L	P439098	
		Chromium	0.92	I	ug/L	P439098	
		Cobalt	0.086		ug/L	P439098	
		Copper	0.40	U	ug/L	P439098	
		Lead	0.20	U	ug/L	P439098	
		Manganese	1.86		ug/L	P439098	
		Molybdenum	0.15	U	ug/L	P439098	
		Nickel	0.56	I	ug/L	P439098	
		Selenium	0.20	U	ug/L	P439098	
		Silver	0.010	U	ug/L	P439098	
		Thallium	0.10	U	ug/L	P439098	
	SM 2340 B-2011	Hardness	60.9		mg/L	P439098	

Ref. Method and Comment:

EPA 180.1 Rev. 2.0: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P439000

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P439416

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P439098

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: P439098

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: P439205

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: P439409

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P439219

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P439488

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P439165

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P439047

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

Reference Method: EPA 8270E
Batch ID: P439022

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: P439022

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: P439022

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	12	I	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: P439306

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P439306

Component	Result	Code	Units
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: P439306

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

Reference Method: EPA 8321B

Batch ID: P438952

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P438952

Component	Result	Code	Units
Propoxur	0.0020	U	ug/L

Reference Method: EPA 8321B
Batch ID: P439028

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: P439060

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: SM 2320 B-2011
Batch ID: P439285

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: P439432

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P439347

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P439291

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2014
Batch ID: P439359

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: P439000

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: P439416

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P439098

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Iron	103		P	85 - 115
Magnesium	105		P	85 - 115
Potassium	98.4		P	85 - 115
Sodium	99.3		P	85 - 115
Strontium	96.5		P	85 - 115
Tin	96.4		P	85 - 115
Titanium	98.6		P	85 - 115
Vanadium	98.5		P	85 - 115
Zinc	95.5		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P439098

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	103		P	85 - 115
Antimony	103		P	85 - 115
Arsenic	103		P	85 - 115
Barium	103		P	85 - 115
Beryllium	97.2		P	85 - 115
Boron	105		P	85 - 115
Cadmium	102		P	85 - 115
Chromium	106		P	85 - 115
Cobalt	102		P	85 - 115
Copper	101		P	85 - 115
Lead	97.9		P	85 - 115
Manganese	104		P	85 - 115
Molybdenum	100		P	85 - 115
Nickel	102		P	85 - 115
Selenium	101		P	85 - 115
Silver	103		P	85 - 115
Thallium	102		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439205

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439409

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P439219

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P439488

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P439165

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P439047

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

Reference Method: EPA 8270E
Batch ID: P439022

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	93.9		P	37 - 154
Acetochlor	68.2		P	64 - 124
Alachlor	66.9		P	61 - 118
Ametryn	93.7		P	47 - 158
Atrazine	109		P	68 - 121
Atrazine Desethyl	73.6		P	30 - 119
Avobenzone	112		P	48 - 193
Azinphos Methyl	119		P	30 - 194
Azoxystrobin	102		P	58 - 154
Bromacil	65.0		P	47 - 126
Butylate	61.2		P	31 - 83.0
Caffeine	108		P	10 - 180
Carbophenothion	64.2		P	59 - 133
Carfentrazone Ethyl	128		P	59 - 147
Chlorfenapyr	63.7		P	52 - 118
Chlorpyrifos Ethyl	61.9		P	59 - 119
Chlorpyrifos Methyl	63.4		F	65 - 123
Coumaphos	137		P	11 - 223
Cyanazine	165		P	63 - 250
Cyprodinil	87.1		P	52 - 143
Dechlorane 602	57.2		P	23 - 142
Dechlorane 603	95.2		P	51 - 171

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P439022

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dechlorane Plus	99.9		P	46 - 161
Demeton	114		P	42 - 119
Diazinon	70.1		P	67 - 132
Difenoconazole	101		P	12 - 204
Dimethenamid	71.6		P	53 - 113
Dimethomorph	158		P	13 - 238
Disulfoton	73.0		P	56 - 126
Dithiopyr	56.4		F	58 - 127
EPTC	59.2		P	31 - 78.0
Ethion	81.4		P	24 - 127
Ethoprop	95.5		P	60 - 118
Etridiazole	66.3		P	32 - 91.0
Fenamiphos	85.7		P	54 - 129
Fenbuconazole	130		P	31 - 162
Fipronil	66.2		P	56 - 131
Fipronil Desulfinyl	98.6		P	58 - 132
Fipronil Sulfide	64.3		P	51 - 123
Fipronil Sulfone	77.4		P	50 - 125
Fluazifop-P-butyl	82.9		P	52 - 132
Fludioxonil	65.4		P	52 - 129
Flumioxazin	124		P	34 - 250
Flutolanil	70.2		P	45 - 128
Fluxapyroxad	107		P	31 - 150
Fonofos	75.3		P	60 - 116
Hexabromobenzene	75.2		P	52 - 165
Hexazinone	90.2		P	59 - 120
Imazalil	78.0		P	39 - 134
Iprodione	81.5		P	39 - 243
Loratadine	144		P	10 - 240
Malathion	112		P	53 - 145
Metalaxyl	94.0		P	59 - 120
Metolachlor	60.5		F	64 - 122
Metribuzin	105		P	33 - 128
Mevinphos	73.1		P	48 - 119
Molinate	69.2		P	42 - 89.0
Myclobutanil	87.6		P	54 - 129
Naled	64.7		P	10 - 138
Napropamide	48.2		P	40 - 122
Norflurazon	67.1		P	49 - 132
Octinoxate	90.0		P	29 - 176
Oxadiazon	60.5		P	50 - 115
Oxybenzone	104		P	45 - 145
Oxyfluorfen	85.7		P	62 - 149
Parathion Ethyl	105		P	68 - 119
Parathion Methyl	118		P	68 - 147
PBB-153	95.3		P	42 - 179
PBDE-47	76.9		P	44 - 141
PBDE-99	79.8		P	36 - 141
Pendimethalin	115		P	59 - 158
Pentabromotoluene	83.3		P	58 - 148
Phenytoin	15.3		P	10 - 151
Phorate	70.0		P	44 - 124

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P439022

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Prodiamine	62.2		P	10 - 136
Prometon	91.2		P	45 - 131
Prometryn	96.5		P	52 - 140
Pronamide	77.0		P	70 - 129
Propanil	115		P	54 - 144
Propargite	53.3		P	10 - 191
Propiconazole	83.9		P	49 - 128
Pyraflufen Ethyl	114		P	46 - 141
Pyridaben	131		P	29 - 198
Pyriproxyfen	133		P	33 - 221
Simazine	109		P	62 - 119
Stirophos	48.8		P	13 - 144
Sulfentrazone	99.9		P	12 - 152
Tebuconazole	57.7		P	10 - 135
Terbufos	83.2		P	67 - 136
Terbutylazine	59.0		F	66 - 113
Tetradecachloro-m-terphenyl	150		P	30 - 235
Thiobencarb	66.8		P	51 - 125
Tri-o-cresyl Phosphate	97.8		P	50 - 150
Triadimefon	52.4		F	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	134		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	113		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	141		P	59 - 166

Reference Method: EPA 8270E

Batch ID: P439306

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	47.6		P	30 - 96.0
Alpha-BHC	103		P	70 - 109
Alpha-Chlordane	53.0		P	45 - 107
Beta-BHC	112		P	64 - 138
Beta-Cyfluthrin	108		P	17 - 141
Bifenthrin	55.6		P	10 - 113
Chlorothalonil	72.6		P	26 - 180
Cis-Nonachlor	75.8		P	37 - 102
Cypermethrin	84.7		P	20 - 133
Dacthal	110		P	69 - 114
DDD-p,p'	76.0		P	42 - 105
DDE-p,p'	75.5		P	42 - 106
DDT-p,p'	68.3		P	42 - 107
Delta-BHC	68.6		P	67 - 144
Deltamethrin	140		P	15 - 149
Dichlobenil	90.5		P	46 - 117
Dicofol	74.3		P	34 - 114
Dieldrin	79.1		P	50 - 108
Endosulfan I	56.8		P	55 - 104
Endosulfan II	73.8		P	51 - 111
Endosulfan Sulfate	116		P	56 - 121
Endrin	67.8		P	10 - 106
Endrin Aldehyde	101		P	34 - 114
Endrin Ketone	94.7		P	63 - 177

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P439306

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Esfenvalerate	122		P	29 - 143
Ethalfuralin	87.9		P	46 - 96.0
Fenpropathrin	62.3		P	28 - 115
Gamma-BHC	115		P	65 - 121
Gamma-Chlordane	86.4		P	39 - 103
Heptachlor	56.2		P	39 - 94.0
Heptachlor Epoxide	92.5		P	54 - 104
Hexachlorobenzene	49.2		P	36 - 100
Kepone	157		P	10 - 225
Lambda-Cyhalothrin	68.6		P	10 - 135
Methoprene	62.0		P	10 - 109
Methoxychlor	83.7		P	52 - 112
MGK-264	119		F	44 - 117
Mirex	60.1		P	20 - 90.0
Oxychlordane	70.7		P	44 - 102
PCB-1016	76.9		P	45 - 107
PCB-1260	68.6		P	40 - 112
Permethrin	99.4		P	18 - 135
Phenothrin	81.5		P	10 - 102
Piperonyl Butoxide	96.2		P	28 - 156
Prallethrin	85.4		P	28 - 113
Tau-Fluvalinate	79.0		P	10 - 123
Tetramethrin	121		P	18 - 158
Trans-Nonachlor	51.8		P	39 - 104
Triclosan Methyl	48.0		F	54 - 108
Trifluralin	78.1		P	46 - 97.0

Reference Method: EPA 8276

Batch ID: P439306

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	99.0		P	52 - 117
Toxaphene	95.9		P	44 - 125

Reference Method: EPA 8321B

Batch ID: P438952

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	62.1		P	40 - 150
Aldicarb	60.9		P	30 - 150
Aldicarb Sulfone	88.5		P	40 - 150
Aldicarb Sulfoxide	103		P	40 - 150
Carbaryl	62.5		P	40 - 150
Carbofuran	65.7		P	40 - 150
Methiocarb	51.5		P	40 - 150
Methomyl	78.9		P	40 - 150
Oxamyl	81.3		P	40 - 150
Propoxur	63.8		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P439028

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	133		P	40 - 150
AMPA	58.3		P	40 - 160
Endothall	45.4		P	40 - 160
Glufosinate	59.2		P	40 - 160
Glyphosate	47.4		P	40 - 160
Sucralose	83.5		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P439060

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	109		P	40 - 150
2,4,5-T	105		P	40 - 150
Acetaminophen	76.3		P	30 - 150
Acetamiprid	82.4		P	40 - 150
Afidopyropen	68.6		P	30 - 150
Bentazon	56.0		P	30 - 150
Benzovindiflupyr	78.4		P	40 - 150
Carbamazepine	70.7		P	40 - 150
Clothianidin	89.6		P	40 - 150
Dinotefuran	92.9		P	40 - 150
Diuron	66.7		P	40 - 150
Fenuron	140		P	40 - 150
Fluridone	82.1		P	40 - 150
Hydrocodone	89.3		P	40 - 150
Ibuprofen	68.4		P	40 - 150
Imazapyr	90.1		P	40 - 150
Imidacloprid	86.9		P	40 - 150
Linuron	66.5		P	40 - 150
Mandestrobin	84.5		P	40 - 150
MCPP	96.3		P	40 - 150
Naproxen	66.0		P	40 - 150
Primidone	85.0		P	40 - 150
Pyraclostrobin	71.9		P	40 - 150
Silvex	84.7		P	40 - 150
Thiamethoxam	86.7		P	40 - 150
Tolfenpyrad	43.5		P	30 - 150
Triclopyr	121		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P439285

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

Reference Method: SM 2540 C-2015

Batch ID: P439432

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	96.4		P	85 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2540 D-2015
Batch ID: P439347

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	95.2		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P439291

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

Reference Method: SM 5310 B-2014
Batch ID: P439359

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	102		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P439098

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456988	Calcium	103		P	80 - 120
2456988	Iron	109	105	P/P	80 - 120
2456988	Magnesium	109	104	P/P	80 - 120
2456988	Potassium	104	100	P/P	80 - 120
2456988	Sodium	98.2		P	80 - 120
2456988	Strontium	97.8	97.9	P/P	80 - 120
2456988	Tin	99.9	99.4	P/P	80 - 120
2456988	Titanium	103	102	P/P	80 - 120
2456988	Vanadium	103	102	P/P	80 - 120
2456988	Zinc	99.4	98.9	P/P	80 - 120
2457243	Calcium	110		P	80 - 120
2457243	Iron	109		P	80 - 120
2457243	Magnesium	112		P	80 - 120
2457243	Potassium	101		P	80 - 120
2457243	Sodium	100		P	80 - 120
2457243	Strontium	99.1		P	80 - 120
2457243	Tin	101		P	80 - 120
2457243	Titanium	104		P	80 - 120
2457243	Vanadium	103		P	80 - 120
2457243	Zinc	101		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P439098

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456988	Aluminum	102	102	P/P	80 - 120
2456988	Antimony	106	106	P/P	80 - 120
2456988	Arsenic	104	105	P/P	80 - 120
2456988	Barium	104	105	P/P	80 - 120
2456988	Beryllium	98.5	98.8	P/P	80 - 120
2456988	Boron	105	106	P/P	80 - 120
2456988	Cadmium	107	104	P/P	80 - 120
2456988	Chromium	104	104	P/P	80 - 120
2456988	Cobalt	101	100	P/P	80 - 120
2456988	Copper	99.7	99.5	P/P	80 - 120
2456988	Lead	100	99.6	P/P	80 - 120
2456988	Manganese	101	101	P/P	80 - 120
2456988	Molybdenum	105	104	P/P	80 - 120
2456988	Nickel	101	101	P/P	80 - 120
2456988	Selenium	89.3	87.9	P/P	80 - 120
2456988	Silver	104	104	P/P	80 - 120
2456988	Thallium	106	106	P/P	80 - 120
2457243	Aluminum	102		P	80 - 120
2457243	Antimony	104		P	80 - 120
2457243	Arsenic	101		P	80 - 120
2457243	Barium	104		P	80 - 120
2457243	Beryllium	95.1		P	80 - 120
2457243	Boron	107		P	80 - 120
2457243	Cadmium	101		P	80 - 120
2457243	Chromium	106		P	80 - 120
2457243	Cobalt	99.9		P	80 - 120
2457243	Copper	99.2		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P439098

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457243	Lead	98.8		P	80 - 120
2457243	Manganese	102		P	80 - 120
2457243	Molybdenum	101		P	80 - 120
2457243	Nickel	99.7		P	80 - 120
2457243	Selenium	101		P	80 - 120
2457243	Silver	103		P	80 - 120
2457243	Thallium	104		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439205

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457093	Chloride	100		P	90 - 110
2457262	Chloride	106		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439409

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457040	Sulfate	100		P	90 - 110
2457220	Sulfate	99.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P439219

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457043	Ammonia-N	104	99.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P439488

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457268	Kjeldahl Nitrogen	103	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P439165

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457227	NO2NO3-N	96.1	96.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P439047

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457042	Total-P	109	108	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P439022

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457308	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	93.0	91.8	P/P	29 - 155
2457308	Acetochlor	73.4	83.9	P/P	60 - 124

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P439022

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457308	Alachlor	63.4	73.9	P/P	54 - 122
2457308	Ametryn	121	120	P/P	51 - 208
2457308	Atrazine	112	109	P/P	57 - 131
2457308	Atrazine Desethyl	56.7	69.8	P/P	13 - 124
2457308	Avobenzone	112	110	P/P	35 - 187
2457308	Azinphos Methyl	130	122	P/P	43 - 276
2457308	Azoxystrobin	106	119	P/P	52 - 300
2457308	Bromacil	59.3	88.6	P/P	44 - 134
2457308	Butylate	64.4	76.7	P/P	23 - 82.0
2457308	Caffeine	120	117	P/P	10 - 277
2457308	Carbophenothion	69.6	79.9	P/P	47 - 135
2457308	Carfentrazone Ethyl	141	129	P/P	46 - 147
2457308	Chlorfenapyr	62.0	75.3	P/P	43 - 114
2457308	Chlorpyrifos Ethyl	75.1	77.9	P/P	47 - 124
2457308	Chlorpyrifos Methyl	80.5	93.1	P/P	60 - 135
2457308	Coumaphos	147	173	P/P	10 - 222
2457308	Cyanazine	169	196	P/P	10 - 257
2457308	Cyprodinil	122	142	P/P	42 - 148
2457308	Dechlorane 602	58.9	51.0	P/P	14 - 133
2457308	Dechlorane 603	89.4	82.5	P/P	18 - 191
2457308	Dechlorane Plus	92.3	85.1	P/P	23 - 154
2457308	Demeton	134	117	P/P	41 - 137
2457308	Diazinon	74.9	93.6	P/P	64 - 139
2457308	Difenoconazole	111	120	P/P	46 - 254
2457308	Dimethenamid	82.6	93.8	P/P	47 - 117
2457308	Dimethomorph	168	169	P/P	14 - 255
2457308	Disulfoton	80.4	93.2	P/P	52 - 130
2457308	Dithiopyr	64.8	82.8	P/P	40 - 121
2457308	EPTC	62.6	64.9	P/P	19 - 78.0
2457308	Ethion	106	86.7	P/P	12 - 124
2457308	Ethoprop	99.9	99.1	P/P	68 - 144
2457308	Etridiazole	67.3	71.6	P/P	26 - 96.0
2457308	Fenamiphos	72.9	76.9	P/P	41 - 129
2457308	Fenbuconazole	118	146	P/P	26 - 169
2457308	Fipronil	75.1	91.7	P/P	46 - 145
2457308	Fipronil Desulfinyl	122	121	P/P	47 - 136
2457308	Fipronil Sulfide	77.4	86.4	P/P	41 - 127
2457308	Fipronil Sulfone	78.3	92.8	P/P	35 - 133
2457308	Fluazifop-P-butyl	77.2	88.8	P/P	46 - 131
2457308	Fludioxonil	91.7	90.1	P/P	51 - 124
2457308	Flumioxazin	126	147	P/P	10 - 289
2457308	Flutolanil	72.0	83.4	P/P	34 - 130
2457308	Fluxapyroxad	151	158	P/P	10 - 197
2457308	Fonofos	77.5	90.6	P/P	42 - 131
2457308	Hexabromobenzene	79.4	76.0	P/P	47 - 178
2457308	Hexazinone	95.8	98.3	P/P	64 - 125
2457308	Imazalil	72.8	89.5	P/P	37 - 252
2457308	Iprodione	109	113	P/P	34 - 265
2457308	Loratadine	177	173	P/P	20 - 231
2457308	Malathion	133	136	P/P	34 - 164
2457308	Metalaxyl	106	110	P/P	49 - 125
2457308	Metolachlor	56.3	76.7	P/P	54 - 125

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P439022

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457308	Metribuzin	105	110	P/P	51 - 139
2457308	Mevinphos	83.2	90.1	P/P	46 - 130
2457308	Molinate	78.1	83.3	P/P	39 - 93.0
2457308	Myclobutanil	98.2	93.6	P/P	50 - 130
2457308	Naled	63.8	68.6	P/P	10 - 150
2457308	Napropamide	57.7	62.3	P/P	10 - 109
2457308	Octinoxate	92.7	92.7	P/P	18 - 170
2457308	Oxadiazon	61.5	64.4	P/P	43 - 112
2457308	Oxybenzone	102	102	P/P	33 - 154
2457308	Oxyfluorfen	84.0	100	P/P	62 - 154
2457308	Parathion Ethyl	107	96.8	P/P	65 - 120
2457308	Parathion Methyl	154	166	P/P	77 - 185
2457308	PBB-153	87.9	89.1	P/P	23 - 193
2457308	PBDE-47	81.4	74.5	P/P	31 - 139
2457308	PBDE-99	80.5	77.6	P/P	24 - 138
2457308	Pendimethalin	131	97.3	P/P	50 - 146
2457308	Pentabromotoluene	87.6	87.2	P/P	54 - 152
2457308	Phenytoin	22.8	17.8	P/P	10 - 157
2457308	Phorate	89.1	106	P/P	54 - 161
2457308	Prodiamine	64.4	98.6	P/P	29 - 160
2457308	Prometon	68.3	74.3	P/P	38 - 145
2457308	Prometryn	89.9	105	P/P	32 - 151
2457308	Pronamide	79.7	80.0	P/P	61 - 140
2457308	Propanil	134	122	P/P	50 - 147
2457308	Propargite	55.1	47.8	P/P	10 - 190
2457308	Propiconazole	84.0	95.2	P/P	30 - 146
2457308	Pyraflufen Ethyl	87.7	91.0	P/P	30 - 147
2457308	Pyridaben	158	166	P/P	15 - 195
2457308	Pyriproxyfen	195	114	P/P	31 - 218
2457308	Simazine	112	106	P/P	45 - 139
2457308	Stiropfos	39.3	63.4	P/P	10 - 134
2457308	Sulfentrazone	117	132	P/P	53 - 186
2457308	Tebuconazole	76.6	62.4	P/P	10 - 133
2457308	Terbufos	89.6	100	P/P	65 - 151
2457308	Terbuthylazine	60.4	68.9	F/P	62 - 117
2457308	Tetradecachloro-m-terphenyl	167	149	P/P	10 - 260
2457308	Thiobencarb	60.8	76.2	P/P	48 - 122
2457308	Tri-o-cresyl Phosphate	103	98.5	P/P	32 - 151
2457308	Triadimefon	71.6	77.7	P/P	46 - 124
2457308	Tris(1-chloro-2-propyl) phosphate (TCPP)	134	120	P/P	51 - 154
2457308	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	118	109	P/P	59 - 147
2457308	Tris(2-chloroethyl) phosphate (TCEP)	157	137	F/P	65 - 156

Reference Method: EPA 8270E

Batch ID: P439306

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456889	PCB-1016	64.8	61.1	P/P	45 - 107
2456889	PCB-1260	80.8	70.5	P/P	40 - 112
2457418	Aldrin	69.7	68.6	P/P	24 - 81.0
2457418	Alpha-BHC	74.4	72.2	P/P	65 - 110
2457418	Alpha-Chlordane	72.0	72.4	P/P	43 - 119

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P439306

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457418	Beta-BHC	73.9	81.1	P/P	54 - 165
2457418	Beta-Cyfluthrin	122	129	P/P	27 - 165
2457418	Bifenthrin	87.3	89.6	P/P	17 - 117
2457418	Chlorothalonil	103	103	P/P	10 - 255
2457418	Cis-Nonachlor	82.7	78.8	P/P	34 - 98.0
2457418	Cypermethrin	101	81.6	P/P	25 - 143
2457418	Dacthal	100	70.7	P/P	55 - 139
2457418	DDD-p,p'	83.9	75.0	P/P	30 - 109
2457418	DDE-p,p'	85.0	73.2	P/P	35 - 106
2457418	DDT-p,p'	74.4	77.5	P/P	41 - 101
2457418	Delta-BHC	75.8	78.7	P/P	58 - 165
2457418	Deltamethrin	178	140	P/P	10 - 194
2457418	Dichlobenil	53.1	41.0	P/P	22 - 114
2457418	Dicofol	81.7	88.4	P/P	17 - 133
2457418	Dieldrin	90.4	78.4	P/P	45 - 129
2457418	Endosulfan I	71.5	83.2	P/P	49 - 104
2457418	Endosulfan II	71.3	77.3	P/P	37 - 117
2457418	Endosulfan Sulfate	67.5	67.0	P/P	38 - 128
2457418	Endrin	81.0	77.7	P/P	35 - 116
2457418	Endrin Aldehyde	54.6	55.4	P/P	19 - 108
2457418	Endrin Ketone	82.6	95.9	P/P	44 - 134
2457418	Esfenvalerate	137	135	P/P	27 - 176
2457418	Ethalfuralin	105	110	F/F	49 - 100
2457418	Fenpropathrin	67.9	91.6	P/P	34 - 117
2457418	Gamma-BHC	93.2	85.0	P/P	59 - 129
2457418	Gamma-Chlordane	82.9	105	P/P	33 - 107
2457418	Heptachlor	63.6	91.5	P/P	37 - 94.0
2457418	Heptachlor Epoxide	106	123	P/F	38 - 118
2457418	Hexachlorobenzene	55.5	57.2	P/P	35 - 97.0
2457418	Kepone	99.4	102	P/P	10 - 221
2457418	Lambda-Cyhalothrin	101	103	P/P	23 - 190
2457418	Methoprene	81.7	116	P/F	21 - 109
2457418	Methoxychlor	72.7	91.8	P/P	46 - 118
2457418	MGK-264	89.3	81.2	P/P	39 - 122
2457418	Mirex	80.5	84.8	P/P	25 - 90.0
2457418	Oxychlordane	76.7	102	P/F	42 - 100
2457418	Permethrin	126	121	P/P	33 - 181
2457418	Phenothrin	110	95.1	P/P	12 - 125
2457418	Piperonyl Butoxide	81.6	97.7	P/P	10 - 178
2457418	Prallethrin	77.4	47.3	P/P	24 - 122
2457418	Tau-Fluvalinate	119	99.0	P/P	13 - 151
2457418	Tetramethrin	103	111	P/P	16 - 172
2457418	Trans-Nonachlor	74.6	86.9	P/P	39 - 100
2457418	Triclosan Methyl	65.7	85.3	P/P	43 - 110
2457418	Trifluralin	74.3	71.6	P/P	45 - 94.0

Reference Method: EPA 8276

Batch ID: P439306

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456889	Chlordane	91.2	113	P/P	43 - 123
2456889	Toxaphene	89.4	112	P/P	27 - 156

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P438952

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456407	3-Hydroxycarbofuran	84.2	71.9	P/P	40 - 150
2456407	Aldicarb	57.4	63.4	P/P	30 - 150
2456407	Aldicarb Sulfone	83.8	90.8	P/P	40 - 150
2456407	Aldicarb Sulfoxide	40.7	43.9	P/P	40 - 150
2456407	Carbaryl	59.1	62.5	P/P	40 - 150
2456407	Carbofuran	62.0	63.0	P/P	40 - 150
2456407	Methiocarb	61.8	61.3	P/P	40 - 150
2456407	Methomyl	75.2	75.4	P/P	40 - 150
2456407	Oxamyl	70.9	73.6	P/P	40 - 150
2456407	Propoxur	58.4	62.5	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P439028

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456963	Acesulfame K	123	126	P/P	40 - 150
2456963	AMPA	72.3	45.4	P/P	40 - 160
2456963	Endothall	65.0	50.4	P/P	40 - 160
2456963	Glufosinate	74.6	64.9	P/P	40 - 160
2456963	Sucralose	64.6	65.5	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P439060

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456963	2,4-D	93.2	94.3	P/P	40 - 150
2456963	2,4,5-T	72.0	76.3	P/P	40 - 150
2456963	Acetaminophen	84.1	95.8	P/P	30 - 150
2456963	Acetamiprid	63.5	69.2	P/P	40 - 150
2456963	Afidopyropen	66.6	73.5	P/P	30 - 150
2456963	Benzovindiflupyr	75.8	82.6	P/P	40 - 150
2456963	Carbamazepine	57.1	62.9	P/P	40 - 150
2456963	Clothianidin	88.7	98.1	P/P	40 - 150
2456963	Dinotefuran	77.8	81.7	P/P	40 - 150
2456963	Diuron	54.6	58.6	P/P	40 - 150
2456963	Fenuron	91.4	94.1	P/P	40 - 150
2456963	Fluridone	55.0	78.2	P/P	40 - 150
2456963	Hydrocodone	72.3	75.5	P/P	40 - 150
2456963	Ibuprofen	59.9	62.3	P/P	40 - 150
2456963	Imidacloprid	104	115	P/P	40 - 150
2456963	Linuron	59.4	63.3	P/P	40 - 150
2456963	Mandestrobin	77.4	85.4	P/P	40 - 150
2456963	MCPP	84.5	88.6	P/P	40 - 150
2456963	Naproxen	59.4	78.2	P/P	40 - 150
2456963	Primidone	88.8	100	P/P	40 - 150
2456963	Pyraclostrobin	72.3	80.0	P/P	40 - 150
2456963	Silvex	83.0	87.7	P/P	40 - 150
2456963	Thiamethoxam	74.8	82.3	P/P	40 - 150
2456963	Tolfenpyrad	46.6	54.5	P/P	30 - 150
2456963	Triclopyr	76.2	79.6	P/P	40 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P439291

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457220	Fluoride	101	102	P/P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P439359

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457094	Organic Carbon	102	102	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P439000

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457040	Color (true)	1.83	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P439098

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456988	Calcium	1.03	Spike	P	0 - 20
2456988	Iron	2.97	Spike	P	0 - 20
2456988	Magnesium	2.64	Spike	P	0 - 20
2456988	Potassium	3.28	Spike	P	0 - 20
2456988	Sodium	0.517	Spike	P	0 - 20
2456988	Strontium	0.151	Spike	P	0 - 20
2456988	Tin	0.523	Spike	P	0 - 20
2456988	Titanium	0.650	Spike	P	0 - 20
2456988	Vanadium	0.876	Spike	P	0 - 20
2456988	Zinc	0.453	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P439098

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456988	Aluminum	0.0377	Spike	P	0 - 20
2456988	Antimony	0.0544	Spike	P	0 - 20
2456988	Arsenic	1.42	Spike	P	0 - 20
2456988	Barium	0.537	Spike	P	0 - 20
2456988	Beryllium	0.269	Spike	P	0 - 20
2456988	Boron	0.752	Spike	P	0 - 20
2456988	Cadmium	2.79	Spike	P	0 - 20
2456988	Chromium	0.239	Spike	P	0 - 20
2456988	Cobalt	0.819	Spike	P	0 - 20
2456988	Copper	0.123	Spike	P	0 - 20
2456988	Lead	0.718	Spike	P	0 - 20
2456988	Manganese	0.262	Spike	P	0 - 20
2456988	Molybdenum	0.217	Spike	P	0 - 20
2456988	Nickel	0.549	Spike	P	0 - 20
2456988	Selenium	1.58	Spike	P	0 - 20
2456988	Silver	0.480	Spike	P	0 - 20
2456988	Thallium	0.0550	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439205

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457093	Chloride	0.908	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439409

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457040	Sulfate	1.17	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P439219

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457043	Ammonia-N	3.15	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P439488

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457268	Kjeldahl Nitrogen	1.06	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P439165

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457227	NO2NO3-N	0.426	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P439047

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457042	Total-P	1.08	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P439022

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457308	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	1.34	Spike	P	0 - 35
2457308	Acetochlor	13.3	Spike	P	0 - 28
2457308	Alachlor	15.3	Spike	P	0 - 30
2457308	Ametryn	0.470	Spike	P	0 - 32
2457308	Atrazine	2.45	Spike	P	0 - 33
2457308	Atrazine Desethyl	20.8	Spike	P	0 - 36
2457308	Avobenzone	1.76	Spike	P	0 - 35
2457308	Azinphos Methyl	6.05	Spike	P	0 - 62
2457308	Azoxystrobin	12.1	Spike	P	0 - 39
2457308	Bromacil	29.0	Spike	P	0 - 33
2457308	Butylate	17.5	Spike	P	0 - 51
2457308	Caffeine	2.77	Spike	P	0 - 100
2457308	Carbophenothion	13.7	Spike	P	0 - 34
2457308	Carfentrazone Ethyl	9.20	Spike	P	0 - 33
2457308	Chlorfenapyr	19.4	Spike	P	0 - 28
2457308	Chlorpyrifos Ethyl	3.65	Spike	P	0 - 31

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P439022

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457308	Chlorpyrifos Methyl	14.6	Spike	P	0 - 27
2457308	Coumaphos	16.3	Spike	P	0 - 62
2457308	Cyanazine	14.7	Spike	P	0 - 48
2457308	Cyprodinil	15.2	Spike	P	0 - 29
2457308	Dechlorane 602	14.5	Spike	P	0 - 60
2457308	Dechlorane 603	8.02	Spike	P	0 - 40
2457308	Dechlorane Plus	8.17	Spike	P	0 - 38
2457308	Demeton	13.7	Spike	P	0 - 33
2457308	Diazinon	22.3	Spike	P	0 - 32
2457308	Difenoconazole	7.81	Spike	P	0 - 71
2457308	Dimethenamid	12.7	Spike	P	0 - 60
2457308	Dimethomorph	0.187	Spike	P	0 - 61
2457308	Disulfoton	14.6	Spike	P	0 - 30
2457308	Dithiopyr	24.4	Spike	P	0 - 28
2457308	EPTC	3.62	Spike	P	0 - 56
2457308	Ethion	19.7	Spike	P	0 - 79
2457308	Ethoprop	0.834	Spike	P	0 - 31
2457308	Etridiazole	6.26	Spike	P	0 - 43
2457308	Fenamiphos	5.43	Spike	P	0 - 43
2457308	Fenbuconazole	21.5	Spike	P	0 - 79
2457308	Fipronil	19.9	Spike	P	0 - 46
2457308	Fipronil Desulfinyf	0.553	Spike	P	0 - 36
2457308	Fipronil Sulfide	11.0	Spike	P	0 - 34
2457308	Fipronil Sulfone	16.8	Spike	P	0 - 47
2457308	Fluazifop-P-butyl	13.9	Spike	P	0 - 38
2457308	Fludioxonil	1.79	Spike	P	0 - 29
2457308	Flumioxazin	15.6	Spike	P	0 - 63
2457308	Flutolanil	14.8	Spike	P	0 - 36
2457308	Fluxapyroxad	4.52	Spike	P	0 - 65
2457308	Fonofos	15.6	Spike	P	0 - 35
2457308	Hexabromobenzene	4.39	Spike	P	0 - 41
2457308	Hexazinone	2.61	Spike	P	0 - 31
2457308	Imazalil	20.5	Spike	P	0 - 52
2457308	Iprodione	3.78	Spike	P	0 - 49
2457308	Loratadine	2.50	Spike	P	0 - 59
2457308	Malathion	2.04	Spike	P	0 - 77
2457308	Metalaxyl	3.19	Spike	P	0 - 76
2457308	Metolachlor	27.7	Spike	P	0 - 29
2457308	Metribuzin	4.73	Spike	P	0 - 51
2457308	Mevinphos	7.98	Spike	P	0 - 31
2457308	Molinate	6.41	Spike	P	0 - 39
2457308	Myclobutanil	4.79	Spike	P	0 - 34
2457308	Naled	7.21	Spike	P	0 - 37
2457308	Napropamide	7.60	Spike	P	0 - 100
2457308	Norflurazon	14.1	Spike	P	0 - 54
2457308	Octinoxate	0.0438	Spike	P	0 - 35
2457308	Oxadiazon	4.58	Spike	P	0 - 34
2457308	Oxybenzone	0.147	Spike	P	0 - 35
2457308	Oxyfluorfen	17.6	Spike	P	0 - 28
2457308	Parathion Ethyl	10.2	Spike	P	0 - 31
2457308	Parathion Methyl	7.55	Spike	P	0 - 29

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P439022

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457308	PBB-153	1.29	Spike	P	0 - 49
2457308	PBDE-47	8.90	Spike	P	0 - 36
2457308	PBDE-99	3.70	Spike	P	0 - 46
2457308	Pendimethalin	29.7	Spike	P	0 - 31
2457308	Pentabromotoluene	0.496	Spike	P	0 - 16
2457308	Phenytoin	24.9	Spike	P	0 - 100
2457308	Phorate	17.4	Spike	P	0 - 36
2457308	Prodiamine	37.8	Spike	P	0 - 68
2457308	Prometon	8.34	Spike	P	0 - 35
2457308	Prometryn	15.7	Spike	P	0 - 33
2457308	Pronamide	0.374	Spike	P	0 - 24
2457308	Propanil	9.46	Spike	P	0 - 28
2457308	Propargite	14.2	Spike	P	0 - 53
2457308	Propiconazole	12.5	Spike	P	0 - 44
2457308	Pyraflufen Ethyl	2.17	Spike	P	0 - 61
2457308	Pyridaben	5.10	Spike	P	0 - 43
2457308	Pyriproxyfen	45.1	Spike	P	0 - 82
2457308	Simazine	5.23	Spike	P	0 - 29
2457308	Stirophos	47.0	Spike	P	0 - 100
2457308	Sulfentrazone	12.1	Spike	P	0 - 64
2457308	Tebuconazole	20.5	Spike	P	0 - 76
2457308	Terbufos	11.0	Spike	P	0 - 29
2457308	Terbuthylazine	13.2	Spike	P	0 - 28
2457308	Tetradecachloro-m-terphenyl	11.5	Spike	P	0 - 42
2457308	Thiobencarb	22.5	Spike	P	0 - 26
2457308	Tri-o-cresyl Phosphate	4.12	Spike	P	0 - 24
2457308	Triadimefon	8.15	Spike	P	0 - 40
2457308	Tris(1-chloro-2-propyl) phosphate (TCPP)	10.9	Spike	P	0 - 30
2457308	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	7.96	Spike	P	0 - 22
2457308	Tris(2-chloroethyl) phosphate (TCEP)	13.1	Spike	P	0 - 15

Reference Method: EPA 8270E

Batch ID: P439306

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456889	PCB-1016	5.95	Spike	P	0 - 25
2456889	PCB-1260	13.7	Spike	P	0 - 30
2457418	Aldrin	1.60	Spike	P	0 - 41
2457418	Alpha-BHC	3.09	Spike	P	0 - 25
2457418	Alpha-Chlordane	0.530	Spike	P	0 - 32
2457418	Beta-BHC	9.33	Spike	P	0 - 33
2457418	Beta-Cyfluthrin	6.33	Spike	P	0 - 43
2457418	Bifenthrin	2.49	Spike	P	0 - 52
2457418	Chlorothalonil	0.0174	Spike	P	0 - 82
2457418	Cis-Nonachlor	4.84	Spike	P	0 - 33
2457418	Cypermethrin	21.6	Spike	P	0 - 51
2457418	Dacthal	34.6	Spike	F	0 - 27
2457418	DDD-p,p'	11.3	Spike	P	0 - 39
2457418	DDE-p,p'	14.9	Spike	P	0 - 31
2457418	DDT-p,p'	4.12	Spike	P	0 - 29

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P439306

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457418	Delta-BHC	3.64	Spike	P	0 - 35
2457418	Deltamethrin	23.8	Spike	P	0 - 100
2457418	Dichlobenil	25.8	Spike	P	0 - 40
2457418	Dicofol	7.87	Spike	P	0 - 37
2457418	Dieldrin	14.1	Spike	P	0 - 27
2457418	Endosulfan I	15.2	Spike	P	0 - 23
2457418	Endosulfan II	8.09	Spike	P	0 - 34
2457418	Endosulfan Sulfate	0.690	Spike	P	0 - 36
2457418	Endrin	4.15	Spike	P	0 - 45
2457418	Endrin Aldehyde	1.48	Spike	P	0 - 76
2457418	Endrin Ketone	15.0	Spike	P	0 - 43
2457418	Esfenvalerate	1.73	Spike	P	0 - 51
2457418	Ethalfuralin	4.40	Spike	P	0 - 22
2457418	Fenpropathrin	29.6	Spike	P	0 - 49
2457418	Gamma-BHC	9.20	Spike	P	0 - 28
2457418	Gamma-Chlordane	23.1	Spike	P	0 - 40
2457418	Heptachlor	35.9	Spike	F	0 - 29
2457418	Heptachlor Epoxide	14.1	Spike	P	0 - 33
2457418	Hexachlorobenzene	2.95	Spike	P	0 - 36
2457418	Kepone	2.52	Spike	P	0 - 85
2457418	Lambda-Cyhalothrin	2.07	Spike	P	0 - 55
2457418	Methoprene	34.2	Spike	P	0 - 53
2457418	Methoxychlor	23.2	Spike	P	0 - 50
2457418	MGK-264	9.51	Spike	P	0 - 43
2457418	Mirex	5.29	Spike	P	0 - 40
2457418	Oxychlordane	28.4	Spike	P	0 - 31
2457418	Permethrin	4.15	Spike	P	0 - 50
2457418	Phenothrin	14.4	Spike	P	0 - 58
2457418	Piperonyl Butoxide	17.9	Spike	P	0 - 100
2457418	Prallethrin	48.2	Spike	F	0 - 39
2457418	Tau-Fluvalinate	18.2	Spike	P	0 - 54
2457418	Tetramethrin	7.50	Spike	P	0 - 51
2457418	Trans-Nonachlor	15.2	Spike	P	0 - 39
2457418	Triclosan Methyl	25.9	Spike	P	0 - 31
2457418	Trifluralin	3.73	Spike	P	0 - 22

Reference Method: EPA 8276

Batch ID: P439306

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456889	Chlordane	21.7	Spike	P	0 - 28
2456889	Toxaphene	22.7	Spike	P	0 - 27

Reference Method: EPA 8321B

Batch ID: P438952

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456407	3-Hydroxycarbofuran	15.8	Spike	P	0 - 30
2456407	Aldicarb	9.98	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P438952

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456407	Aldicarb Sulfone	7.92	Spike	P	0 - 30
2456407	Aldicarb Sulfoxide	7.62	Spike	P	0 - 30
2456407	Carbaryl	5.56	Spike	P	0 - 30
2456407	Carbofuran	1.70	Spike	P	0 - 30
2456407	Methiocarb	0.819	Spike	P	0 - 30
2456407	Methomyl	0.285	Spike	P	0 - 30
2456407	Oxamyl	3.81	Spike	P	0 - 30
2456407	Propoxur	6.70	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P439028

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456963	Acesulfame K	2.29	Spike	P	0 - 30
2456963	AMPA	24.3	Spike	P	0 - 30
2456963	Endothall	25.2	Spike	P	0 - 30
2456963	Glufosinate	13.9	Spike	P	0 - 30
2456963	Glyphosate	17.3	Spike	P	0 - 30
2456963	Sucralose	1.15	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P439060

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456963	2,4-D	0.986	Spike	P	0 - 30
2456963	2,4,5-T	5.69	Spike	P	0 - 30
2456963	Acetaminophen	13.1	Spike	P	0 - 30
2456963	Acetamiprid	8.64	Spike	P	0 - 30
2456963	Afidopyropen	9.82	Spike	P	0 - 30
2456963	Bentazon	3.83	Spike	P	0 - 30
2456963	Benzovindiflupyr	8.56	Spike	P	0 - 30
2456963	Carbamazepine	7.99	Spike	P	0 - 30
2456963	Clothianidin	10.0	Spike	P	0 - 30
2456963	Dinotefuran	4.53	Spike	P	0 - 30
2456963	Diuron	6.14	Spike	P	0 - 30
2456963	Fenuron	2.92	Spike	P	0 - 30
2456963	Fluridone	6.02	Spike	P	0 - 30
2456963	Hydrocodone	4.46	Spike	P	0 - 30
2456963	Ibuprofen	3.91	Spike	P	0 - 30
2456963	Imazapyr	1.95	Spike	P	0 - 30
2456963	Imidacloprid	7.89	Spike	P	0 - 30
2456963	Linuron	6.42	Spike	P	0 - 30
2456963	Mandestrobin	9.82	Spike	P	0 - 30
2456963	MCCP	4.68	Spike	P	0 - 30
2456963	Naproxen	27.4	Spike	P	0 - 30
2456963	Primidone	12.2	Spike	P	0 - 30
2456963	Pyraclostrobin	10.1	Spike	P	0 - 30
2456963	Silvex	5.61	Spike	P	0 - 30
2456963	Thiamethoxam	9.43	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P439060

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456963	Tolfenpyrad	15.7	Spike	P	0 - 30
2456963	Triclopyr	4.33	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P439285

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457220	Total Alkalinity	3.36	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P439432

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456919	TDS	0.766	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P439291

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457220	Fluoride	0.500	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2014
Batch ID: P439359

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457094	Organic Carbon	0.0455	Spike	P	0 - 15

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

Quality Assurance Report Surrogates

Lab Sample ID: 2457100
Field Sample ID: 21030071

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	44.2	P	30 - 160

Lab Sample ID: 2457101
Field Sample ID: 21030071

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	70.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	80.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	47.7	P	30 - 160
EPA 8321B	Diuron-d6	41.9	P	30 - 160
EPA 8321B	Endothall-d6	140	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	60.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	65.6	P	30 - 160
EPA 8321B	Primidone-d5	47.6	P	30 - 160
EPA 8321B	Sucralose-d6	90.1	P	30 - 160

Lab Sample ID: 2457102
Field Sample ID: FB_12132023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	76.6	P	30 - 160

Lab Sample ID: 2457103
Field Sample ID: 21030071

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	49.9	P	37 - 129
EPA 8270E	Decachlorobiphenyl	106	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	53.6	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	91.4	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	93.6	P	28 - 102
EPA 8276	PCNB	99.6	P	49 - 115

Lab Sample ID: 2457104
Field Sample ID: 21030071

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	89.9	P	20 - 200
EPA 8270E	Simazine-d10	109	P	58 - 137
EPA 8270E	Terbufos-d10	72.5	P	50 - 134
EPA 8270E	Terphenyl-d14	91.2	P	44 - 134

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A123236

Included Lab Sample IDs: 2457093

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A123238

Included Lab Sample IDs: 2457093

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

Reference Method: EPA 8321B

Run ID: A123270

Included Lab Sample IDs: 2457101

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	132	128	P/P	60 - 160
Sucralose	87.9	84.8	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A123293

Included Lab Sample IDs: 2457094

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

Reference Method: EPA 8321B

Run ID: A123301

Included Lab Sample IDs: 2457101

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	127	135	P/P	60 - 160
Endothall	127	109	P/P	60 - 160
Glufosinate	136	144	P/P	60 - 160
Glyphosate	138	150	P/P	60 - 160

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A123302

Included Lab Sample IDs: 2457094

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.5	96.5	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A123310

Included Lab Sample IDs: 2457101

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	96.9	108	P/P	50 - 150
2,4,5-T	101	101	P/P	50 - 150
Acetaminophen	109	114	P/P	60 - 160
Acetamiprid	109	112	P/P	50 - 150
Afidopyropen	112	99.7	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A123310
Included Lab Sample IDs: 2457101

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bentazon	96.1	93.1	P/P	50 - 160
Benzovindiflupyr	108	112	P/P	50 - 150
Carbamazepine	108	108	P/P	60 - 150
Clothianidin	107	110	P/P	60 - 150
Dinotefuran	104	112	P/P	50 - 150
Diuron	110	113	P/P	60 - 160
Fenuron	106	109	P/P	60 - 150
Fluridone	116	112	P/P	60 - 160
Hydrocodone	112	114	P/P	60 - 150
Ibuprofen	103	104	P/P	50 - 160
Imazapyr	88.8	86.4	P/P	50 - 150
Imidacloprid	99.0	104	P/P	60 - 150
Linuron	101	113	P/P	60 - 150
Mandestrobin	114	112	P/P	50 - 150
MCPP	101	97.9	P/P	50 - 150
Naproxen	92.6	98.8	P/P	50 - 160
Primidone	94.3	102	P/P	60 - 150
Pyraclostrobin	109	112	P/P	60 - 150
Silvex	104	105	P/P	50 - 150
Thiamethoxam	113	120	P/P	50 - 150
Tolfenpyrad	101	100	P/P	60 - 150
Triclopyr	98.3	105	P/P	50 - 150

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A123321
Included Lab Sample IDs: 2457093

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A123325
Included Lab Sample IDs: 2457094

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

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A123332
Included Lab Sample IDs: 2457105

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	103	104	P/P	90 - 110
Iron	103	105	P/P	90 - 110
Magnesium	103	104	P/P	90 - 110
Potassium	99.6	101	P/P	90 - 110
Sodium	98.9	99.5	P/P	90 - 110
Strontium	99.1	98.2	P/P	90 - 110
Tin	100	102	P/P	90 - 110
Titanium	101	102	P/P	90 - 110
Vanadium	101	102	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A123332

Included Lab Sample IDs: 2457105

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A123335

Included Lab Sample IDs: 2457105

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.5	99.9	P/P	90 - 110
Antimony	101	101	P/P	90 - 110
Arsenic	99.1	98.6	P/P	90 - 110
Barium	100	99.3	P/P	90 - 110
Beryllium	99.7	98.9	P/P	90 - 110
Boron	99.5	99.4	P/P	90 - 110
Cadmium	98.8	99.4	P/P	90 - 110
Chromium	98.1	100	P/P	90 - 110
Cobalt	95.9	97.5	P/P	90 - 110
Copper	97.0	97.1	P/P	90 - 110
Lead	96.7	96.4	P/P	90 - 110
Manganese	97.4	99.8	P/P	90 - 110
Molybdenum	100	100	P/P	90 - 110
Nickel	96.8	97.3	P/P	90 - 110
Selenium	99.1	101	P/P	90 - 110
Silver	101	102	P/P	90 - 110
Thallium	102	102	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A123338

Included Lab Sample IDs: 2457093

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

Reference Method: SM 2320 B-2011

Run ID: A123353

Included Lab Sample IDs: 2457093

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.0	95.8	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A123353

Included Lab Sample IDs: 2457093

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

Reference Method: SM 5310 B-2014

Run ID: A123379

Included Lab Sample IDs: 2457094

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

Reference Method: SM 5310 B-2014

Run ID: A123379

Included Lab Sample IDs: 2457094

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	101	120	P/P	85 - 115

Reference Method: EPA 8321B

Run ID: A123422

Included Lab Sample IDs: 2457100, 2457102

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	102	107	P/P	60 - 150
Aldicarb	114	93.2	P/P	60 - 150
Aldicarb Sulfone	110	112	P/P	50 - 150
Aldicarb Sulfoxide	113	116	P/P	50 - 150
Carbaryl	116	114	P/P	60 - 150
Carbofuran	115	109	P/P	50 - 150
Methiocarb	106	103	P/P	50 - 150
Methomyl	107	111	P/P	50 - 150
Oxamyl	108	107	P/P	50 - 150
Propoxur	121	115	P/P	50 - 150

Reference Method: EPA 8276

Run ID: A123442

Included Lab Sample IDs: 2457103

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	99.7		P	80 - 120
Toxaphene	94.7		P	80 - 120

Reference Method: EPA 8270E

Run ID: A123446

Included Lab Sample IDs: 2457103

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	105		P	80 - 120
Alpha-BHC	115		P	80 - 120
Alpha-Chlordane	106		P	80 - 120
Beta-BHC	106		P	80 - 120
Beta-Cyfluthrin	103		P	80 - 120
Bifenthrin	111		P	80 - 120
Chlorothalonil	98.8		P	80 - 120
Cis-Nonachlor	106		P	80 - 120
Cypermethrin	101		P	80 - 120
Dacthal	113		P	80 - 120
DDD-p,p'	116		P	80 - 120
DDE-p,p'	104		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	97.2		P	80 - 120
Deltamethrin	102		P	80 - 120
Dichlobenil	96.9		P	80 - 120
Dicofol	96.3		P	80 - 120
Dieldrin	96.2		P	80 - 120
Endosulfan I	98.1		P	80 - 120
Endosulfan II	96.0		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A123446
Included Lab Sample IDs: 2457103

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endosulfan Sulfate	101		P	80 - 120
Endrin	101		P	80 - 120
Endrin Aldehyde	102		P	80 - 120
Endrin Ketone	98.8		P	80 - 120
Esfenvalerate	103		P	80 - 120
Ethalfuralin	101		P	80 - 120
Fenpropathrin	100		P	80 - 120
Gamma-BHC	100		P	80 - 120
Gamma-Chlordane	89.1		P	80 - 120
Heptachlor	91.2		P	80 - 120
Heptachlor Epoxide	87.2		P	80 - 120
Hexachlorobenzene	96.4		P	80 - 120
Kepone	95.5		P	80 - 120
Lambda-Cyhalothrin	98.0		P	80 - 120
Methoprene	98.7		P	80 - 120
Methoxychlor	98.5		P	80 - 120
MGK-264	115		P	80 - 120
Mirex	105		P	80 - 120
Oxychlordane	106		P	80 - 120
Permethrin	101		P	80 - 120
Phenothrin	100		P	80 - 120
Piperonyl Butoxide	95.5		P	80 - 120
Prallethrin	102		P	80 - 120
Tau-Fluvalinate	105		P	80 - 120
Tetramethrin	98.5		P	80 - 120
Trans-Nonachlor	104		P	80 - 120
Triclosan Methyl	96.3		P	80 - 120
Trifluralin	99.5		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A123480
Included Lab Sample IDs: 2457094

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	108	104	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A123481
Included Lab Sample IDs: 2457103

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	92.8		P	80 - 120
PCB-1260	83.2		P	80 - 120

Reference Method: EPA 8270E
Run ID: A123579
Included Lab Sample IDs: 2457104

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.3		P	80 - 120
Avobenzone	100		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A123579
Included Lab Sample IDs: 2457104

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dechlorane 602	96.7		P	80 - 120
Dechlorane 603	94.2		P	80 - 120
Dechlorane Plus	97.1		P	80 - 120
Hexabromobenzene	81.7		P	80 - 120
Octinoxate	95.7		P	80 - 120
Oxybenzone	97.7		P	80 - 120
PBB-153	94.4		P	80 - 120
PBDE-47	95.5		P	80 - 120
PBDE-99	97.1		P	80 - 120
Pentabromotoluene	93.6		P	80 - 120
Tetradecachloro-m-terphenyl	106		P	80 - 120
Tri-o-cresyl Phosphate	99.3		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	102		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	97.5		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	105		P	80 - 120

Reference Method: EPA 8270E
Run ID: A123584
Included Lab Sample IDs: 2457104

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	105		P	80 - 120
Alachlor	105		P	80 - 120
Ametryn	111		P	80 - 120
Atrazine	101		P	80 - 120
Atrazine Desethyl	112		P	80 - 120
Azinphos Methyl	110		P	80 - 120
Azoxystrobin	101		P	80 - 120
Bromacil	102		P	80 - 120
Butylate	90.2		P	80 - 120
Caffeine	104		P	80 - 120
Carbophenothion	92.6		P	80 - 120
Carfentrazone Ethyl	82.4		P	80 - 120
Chlorfenapyr	104		P	80 - 120
Chlorpyrifos Ethyl	112		P	80 - 120
Chlorpyrifos Methyl	98.3		P	80 - 120
Coumaphos	102		P	80 - 120
Cyanazine	121*		F	80 - 120
Cyprodinil	97.9		P	80 - 120
Demeton	94.0		P	80 - 120
Diazinon	87.8		P	80 - 120
Difenoconazole	98.1		P	80 - 120
Dimethenamid	108		P	80 - 120
Dimethomorph	97.8		P	80 - 120
Disulfoton	100		P	80 - 120
Dithiopyr	120*		F	80 - 120
EPTC	105		P	80 - 120
Ethion	81.4		P	80 - 120
Ethoprop	99.4		P	80 - 120
Etridiazole	95.7		P	80 - 120
Fenamiphos	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A123584
Included Lab Sample IDs: 2457104

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fenbuconazole	118		P	80 - 120
Fipronil	108		P	80 - 120
Fipronil Desulfinyl	98.2		P	80 - 120
Fipronil Sulfide	117		P	80 - 120
Fipronil Sulfone	111		P	80 - 120
Fluazifop-P-butyl	103		P	80 - 120
Fludioxonil	104		P	80 - 120
Flumioxazin	93.0		P	80 - 120
Flutolanil	106		P	80 - 120
Fluxapyroxad	94.5		P	80 - 120
Fonofos	87.9		P	80 - 120
Hexazinone	97.8		P	80 - 120
Imazalil	113		P	80 - 120
Iprodione	101		P	80 - 120
Loratadine	102		P	80 - 120
Malathion	93.6		P	80 - 120
Metaxyl	107		P	80 - 120
Metolachlor	105		P	80 - 120
Metribuzin	106		P	80 - 120
Mevinphos	98.3		P	80 - 120
Molinate	94.4		P	80 - 120
Myclobutanil	108		P	80 - 120
Naled	113		P	80 - 120
Napropamide	102		P	80 - 120
Norflurazon	92.9		P	80 - 120
Oxadiazon	103		P	80 - 120
Oxyfluorfen	110		P	80 - 120
Parathion Ethyl	108		P	80 - 120
Parathion Methyl	99.3		P	80 - 120
Pendimethalin	84.0		P	80 - 120
Phenytoin	88.9		P	80 - 120
Phorate	106		P	80 - 120
Prodiamine	107		P	80 - 120
Prometon	118		P	80 - 120
Prometryn	112		P	80 - 120
Pronamide	99.5		P	80 - 120
Propanil	88.9		P	80 - 120
Propargite	96.8		P	80 - 120
Propiconazole	89.3		P	80 - 120
Pyraflufen Ethyl	75.2*		F	80 - 120
Pyridaben	127*		F	80 - 120
Pyriproxyfen	91.6		P	80 - 120
Simazine	90.4		P	80 - 120
Stirophos	91.8		P	80 - 120
Sulfentrazone	103		P	80 - 120
Tebuconazole	91.1		P	80 - 120
Terbufos	96.5		P	80 - 120
Terbuthylazine	93.8		P	80 - 120
Thiobencarb	109		P	80 - 120
Triadimefon	118		P	80 - 120

Quality Assurance Report

Calibration Verification

* 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					1.83	
EPA 180.1 Rev. 2.0	Turbidity	103						
EPA 200.7 Rev. 4.4	Calcium	104	103	110				1.03
	Iron	103	109	105	109			2.97
	Magnesium	105	109	104	112			2.64
	Potassium	98.4	104	100	101			3.28
	Sodium	99.3	98.2	100				0.517
	Strontium	96.5	97.8	97.9	99.1			0.151
	Tin	96.4	99.9	99.4	101			0.523
	Titanium	98.6	103	102	104			0.650
	Vanadium	98.5	103	102	103			0.876
	Zinc	95.5	99.4	98.9	101			0.453
EPA 200.8 Rev. 5.4	Aluminum	103	102	102	102			0.0377
	Antimony	103	106	106	104			0.0544
	Arsenic	103	104	105	101			1.42
	Barium	103	104	105	104			0.537
	Beryllium	97.2	98.5	98.8	95.1			0.269
	Boron	105	105	106	107			0.752
	Cadmium	102	107	104	101			2.79
	Chromium	106	104	104	106			0.239
	Cobalt	102	101	100	99.9			0.819
	Copper	101	99.7	99.5	99.2			0.123
	Lead	97.9	100	99.6	98.8			0.718
	Manganese	104	101	101	102			0.262
	Molybdenum	100	105	104	101			0.217
	Nickel	102	101	101	99.7			0.549
	Selenium	101	89.3	87.9	101			1.58
	Silver	103	104	104	103			0.480
	Thallium	102	106	106	104			0.0550
EPA 300.0 Rev. 2.1	Chloride	105	100	106			0.908	
	Sulfate	104	100	99.7			1.17	
EPA 350.1 Rev. 2.0	Ammonia-N	96.8	104	99.2				3.15
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	103	104				1.06
EPA 353.2 Rev. 2.0	NO2NO3-N	97.5	96.1	96.6				0.426
EPA 365.1 Rev. 2.0	Total-P	103	109	108				1.08
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	93.9	93.0	91.8				1.34
	Acetochlor	68.2	73.4	83.9				13.3
	Alachlor	66.9	63.4	73.9				15.3
	Aldrin	47.6	69.7	68.6				1.60
	Alpha-BHC	103	74.4	72.2				3.09
	Alpha-Chlordane	53.0	72.0	72.4				0.530
	Ametryn	93.7	121	120				0.470
	Atrazine	109	112	109				2.45
	Atrazine Desethyl	73.6	69.8	56.7				20.8
	Avobenzone	112	112	110				1.76
	Azinphos Methyl	119	122	130				6.05
	Azoxystrobin	102	119	106				12.1
	Beta-BHC	112	73.9	81.1				9.33
	Beta-Cyfluthrin	108	122	129				6.33
	Bifenthrin	55.6	87.3	89.6				2.49
	Bromacil	65.0	88.6	59.3				29.0
	Butylate	61.2	76.7	64.4				17.5

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Caffeine	108	117	120		2.77
	Carbophenothion	64.2	79.9	69.6		13.7
	Carfentrazone Ethyl	128	129	141		9.20
	Chlorfenapyr	63.7	75.3	62.0		19.4
	Chlorothalonil	72.6	103	103		0.0174
	Chlorpyrifos Ethyl	61.9	77.9	75.1		3.65
	Chlorpyrifos Methyl	63.4	93.1	80.5		14.6
	Cis-Nonachlor	75.8	82.7	78.8		4.84
	Coumaphos	137	173	147		16.3
	Cyanazine	165	196	169		14.7
	Cypermethrin	84.7	101	81.6		21.6
	Cyprodinil	87.1	142	122		15.2
	Dacthal	110	100	70.7		34.6
	DDD-p,p'	76.0	83.9	75.0		11.3
	DDE-p,p'	75.5	85.0	73.2		14.9
	DDT-p,p'	68.3	74.4	77.5		4.12
	Dechlorane 602	57.2	58.9	51.0		14.5
	Dechlorane 603	95.2	89.4	82.5		8.02
	Dechlorane Plus	99.9	92.3	85.1		8.17
	Delta-BHC	68.6	75.8	78.7		3.64
	Deltamethrin	140	178	140		23.8
	Demeton	114	117	134		13.7
	Diazinon	70.1	93.6	74.9		22.3
	Dichlobenil	90.5	53.1	41.0		25.8
	Dicofol	74.3	81.7	88.4		7.87
	Dieldrin	79.1	90.4	78.4		14.1
	Difenoconazole	101	120	111		7.81
	Dimethenamid	71.6	93.8	82.6		12.7
	Dimethomorph	158	169	168		0.187
	Disulfoton	73.0	93.2	80.4		14.6
	Dithiopyr	56.4	82.8	64.8		24.4
	Endosulfan I	56.8	71.5	83.2		15.2
	Endosulfan II	73.8	71.3	77.3		8.09
	Endosulfan Sulfate	116	67.5	67.0		0.690
	Endrin	67.8	81.0	77.7		4.15
	Endrin Aldehyde	101	54.6	55.4		1.48
	Endrin Ketone	94.7	82.6	95.9		15.0
	EPTC	59.2	62.6	64.9		3.62
	Esfenvalerate	122	137	135		1.73
	Ethalfuralin	87.9	105	110		4.40
	Ethion	81.4	106	86.7		19.7
	Ethoprop	95.5	99.9	99.1		0.834
	Etridiazole	66.3	67.3	71.6		6.26
	Fenamiphos	85.7	72.9	76.9		5.43
	Fenbuconazole	130	118	146		21.5
	Fenpropathrin	62.3	67.9	91.6		29.6
	Fipronil	66.2	75.1	91.7		19.9
	Fipronil Desulfinyl	98.6	122	121		0.553
	Fipronil Sulfide	64.3	77.4	86.4		11.0
	Fipronil Sulfone	77.4	78.3	92.8		16.8
	Fluazifop-P-butyl	82.9	77.2	88.8		13.9
	Fludioxonil	65.4	91.7	90.1		1.79
	Flumioxazin	124	126	147		15.6
	Flutolanil	70.2	72.0	83.4		14.8

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Fluxapyroxad	107	151	158			4.52
	Fonofos	75.3	77.5	90.6			15.6
	Gamma-BHC	115	93.2	85.0			9.20
	Gamma-Chlordane	86.4	82.9	105			23.1
	Heptachlor	56.2	63.6	91.5			35.9
	Heptachlor Epoxide	92.5	106	123			14.1
	Hexabromobenzene	75.2	79.4	76.0			4.39
	Hexachlorobenzene	49.2	55.5	57.2			2.95
	Hexazinone	90.2	95.8	98.3			2.61
	Imazalil	78.0	72.8	89.5			20.5
	Iprodione	81.5	109	113			3.78
	Kepone	157	99.4	102			2.52
	Lambda-Cyhalothrin	68.6	101	103			2.07
	Loratadine	144	177	173			2.50
	Malathion	112	133	136			2.04
	Metalaxyl	94.0	106	110			3.19
	Methoprene	62.0	81.7	116			34.2
	Methoxychlor	83.7	72.7	91.8			23.2
	Metolachlor	60.5	56.3	76.7			27.7
	Metribuzin	105	105	110			4.73
	Mevinphos	73.1	83.2	90.1			7.98
	MGK-264	119	89.3	81.2			9.51
	Mirex	60.1	80.5	84.8			5.29
	Molinate	69.2	78.1	83.3			6.41
	Myclobutanil	87.6	98.2	93.6			4.79
	Naled	64.7	63.8	68.6			7.21
	Napropamide	48.2	57.7	62.3			7.60
	Norflurazon	67.1					14.1
	Octinoxate	90.0	92.7	92.7			0.0438
	Oxadiazon	60.5	61.5	64.4			4.58
	Oxybenzone	104	102	102			0.147
	Oxychlordane	70.7	76.7	102			28.4
	Oxyfluorfen	85.7	84.0	100			17.6
	Parathion Ethyl	105	107	96.8			10.2
	Parathion Methyl	118	154	166			7.55
	PBB-153	95.3	87.9	89.1			1.29
	PBDE-47	76.9	81.4	74.5			8.90
	PBDE-99	79.8	80.5	77.6			3.70
	PCB-1016	76.9	61.1	64.8			5.95
	PCB-1260	68.6	70.5	80.8			13.7
	Pendimethalin	115	131	97.3			29.7
	Pentabromotoluene	83.3	87.6	87.2			0.496
	Permethrin	99.4	126	121			4.15
	Phenothrin	81.5	110	95.1			14.4
	Phenytoin	15.3	22.8	17.8			24.9
	Phorate	70.0	89.1	106			17.4
	Piperonyl Butoxide	96.2	81.6	97.7			17.9
	Prallethrin	85.4	77.4	47.3			48.2
	Prodiamine	62.2	64.4	98.6			37.8
	Prometon	91.2	68.3	74.3			8.34
	Prometryn	96.5	89.9	105			15.7
	Pronamide	77.0	79.7	80.0			0.374
	Propanil	115	134	122			9.46
	Propargite	53.3	55.1	47.8			14.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Propiconazole	83.9	84.0	95.2			12.5
	Pyraflufen Ethyl	114	87.7	91.0			2.17
	Pyridaben	131	158	166			5.10
	Pyriproxyfen	133	195	114			45.1
	Simazine	109	112	106			5.23
	Stirophos	48.8	39.3	63.4			47.0
	Sulfentrazone	99.9	117	132			12.1
	Tau-Fluvalinate	79.0	119	99.0			18.2
	Tebuconazole	57.7	76.6	62.4			20.5
	Terbufos	83.2	89.6	100			11.0
	Terbutylazine	59.0	60.4	68.9			13.2
	Tetradecachloro-m-terphenyl	150	167	149			11.5
	Tetramethrin	121	103	111			7.50
	Thiobencarb	66.8	60.8	76.2			22.5
	Trans-Nonachlor	51.8	74.6	86.9			15.2
	Tri-o-cresyl Phosphate	97.8	103	98.5			4.12
	Triadimefon	52.4	71.6	77.7			8.15
	Triclosan Methyl	48.0	65.7	85.3			25.9
	Trifluralin	78.1	74.3	71.6			3.73
	Tris(1-chloro-2-propyl) phosphate (TCPP)	134	134	120			10.9
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	113	118	109			7.96
	Tris(2-chloroethyl) phosphate (TCEP)	141	157	137			13.1
EPA 8276	Chlordane	99.0	91.2	113			21.7
	Toxaphene	95.9	89.4	112			22.7
EPA 8321B	2,4-D	109	93.2	94.3			0.986
	2,4,5-T	105	72.0	76.3			5.69
	3-Hydroxycarbofuran	62.1	84.2	71.9			15.8
	Acesulfame K	133	123	126			2.29
	Acetaminophen	76.3	84.1	95.8			13.1
	Acetamiprid	82.4	63.5	69.2			8.64
	Afidopyropen	68.6	66.6	73.5			9.82
	Aldicarb	60.9	57.4	63.4			9.98
	Aldicarb Sulfone	88.5	83.8	90.8			7.92
	Aldicarb Sulfoxide	103	40.7	43.9			7.62
	AMPA	58.3	72.3	45.4			24.3
	Bentazon	56.0					3.83
	Benzovindiflupyr	78.4	75.8	82.6			8.56
	Carbamazepine	70.7	57.1	62.9			7.99
	Carbaryl	62.5	59.1	62.5			5.56
	Carbofuran	65.7	62.0	63.0			1.70
	Clothianidin	89.6	88.7	98.1			10.0
	Dinotefuran	92.9	77.8	81.7			4.53
	Diuron	66.7	54.6	58.6			6.14
	Endothall	45.4	65.0	50.4			25.2
	Fenuron	140	91.4	94.1			2.92
	Fluridone	82.1	55.0	78.2			6.02
	Glufosinate	59.2	74.6	64.9			13.9
	Glyphosate	47.4					17.3
	Hydrocodone	89.3	72.3	75.5			4.46
	Ibuprofen	68.4	59.9	62.3			3.91
	Imazapyr	90.1					1.95

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 8321B	Imidacloprid	86.9	104	115		7.89
	Linuron	66.5	59.4	63.3		6.42
	Mandestrobin	84.5	77.4	85.4		9.82
	MCPP	96.3	84.5	88.6		4.68
	Methiocarb	51.5	61.8	61.3		0.819
	Methomyl	78.9	75.2	75.4		0.285
	Naproxen	66.0	59.4	78.2		27.4
	Oxamyl	81.3	70.9	73.6		3.81
	Primidone	85.0	88.8	100		12.2
	Propoxur	63.8	58.4	62.5		6.70
	Pyraclostrobin	71.9	72.3	80.0		10.1
	Silvex	84.7	83.0	87.7		5.61
	Sucralose	83.5	64.6	65.5		1.15
	Thiamethoxam	86.7	74.8	82.3		9.43
	Tolfenpyrad	43.5	46.6	54.5		15.7
	Triclopyr	121	76.2	79.6		4.33
SM 2320 B-2011	Total Alkalinity	100				3.36
SM 2540 C-2015	TDS	96.4				0.766
SM 2540 D-2015	TSS	95.2				
SM 4500-F- C-2011	Fluoride	102	101	102		0.500
SM 5310 B-2014	Organic Carbon	102	102	102		0.0455

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2457093
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2457093
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2457105
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2457105
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2457093
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2457093
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2457094
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2457094
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2457094
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2457094
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2457104
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2457103
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2457104
EPA 8270E	PCBs in water matrices by GC/MS/MS	2457103
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2457103
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2457100, 2457102
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2457101
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2457093
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2457105
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2457093
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2457093
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2457093
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2457094

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	12/14/2023			12/14/2023 15:40	Samantha L Bates	2457093
EPA 180.1 Rev. 2.0	12/14/2023			12/14/2023 15:23	Anna M. Plaviak	2457093
EPA 200.7 Rev. 4.4	12/14/2023	12/18/2023 11:15	George D Taylor	12/19/2023 13:58	Samatha Luckman	2457105
EPA 200.8 Rev. 5.4	12/14/2023	12/18/2023 11:15	George D Taylor	12/19/2023 17:49	Emily M Philpot	2457105
EPA 300.0 Rev. 2.1	12/14/2023			12/19/2023 00:37	James L Waggeberby	2457093
	12/14/2023			12/21/2023 21:39	James L Waggeberby	2457093
EPA 350.1 Rev. 2.0	12/14/2023			12/19/2023 14:03	Khloe J Berg	2457094
EPA 351.2 Rev. 2.0	12/14/2023	12/28/2023 12:25	Simonne.V. Calhoun	01/03/2024 15:32	Samantha L Bates	2457094
EPA 353.2 Rev. 2.0	12/14/2023			12/18/2023 12:53	Anna M. Plaviak	2457094
EPA 365.1 Rev. 2.0	12/14/2023	12/15/2023 12:55	Adam P Silver	12/18/2023 15:03	Chandler E Cox	2457094
EPA 8270E	12/14/2023	12/19/2023 08:00	Fe-Val Siddell	01/10/2024 17:39	Arthur Maknenko	2457104
	12/14/2023	12/19/2023 08:00	Fe-Val Siddell	12/22/2023 23:40	Vandana T. Nagar	2457104
	12/14/2023	12/20/2023 08:00	Fe-Val Siddell	01/03/2024 16:04	Lipi Saha	2457103
	12/14/2023	12/20/2023 08:00	Fe-Val Siddell	12/28/2023 06:42	Julie Wi	2457103
EPA 8276	12/14/2023	12/20/2023 08:00	Fe-Val Siddell	12/23/2023 10:49	Kenedi Mills	2457103
EPA 8321B	12/14/2023	12/15/2023 12:00	Hana Lee	12/15/2023 16:24	Hana Lee	2457101
	12/14/2023	12/15/2023 12:00	Hana Lee	12/16/2023 08:20	Tae K Lee	2457101
	12/14/2023	12/18/2023 09:00	Hoor Shaik	12/18/2023 19:13	Juyoung Kim	2457101
	12/14/2023	12/19/2023 08:30	Hoor Shaik	12/19/2023 19:47	Juyoung Kim	2457100
	12/14/2023	12/19/2023 08:30	Hoor Shaik	12/19/2023 20:05	Juyoung Kim	2457102
SM 2320 B-2011	12/14/2023			12/19/2023 21:29	Dale L. Simmons	2457093
SM 2340 B-2011	12/14/2023			12/19/2023 13:58	Samatha Luckman	2457105
SM 2540 C-2015	12/14/2023			12/19/2023 15:26	Yijie Li	2457093
SM 2540 D-2015	12/14/2023			12/19/2023 15:26	Yijie Li	2457093
SM 4500-F- C-2011	12/14/2023			12/19/2023 21:29	Dale L. Simmons	2457093
SM 5310 B-2014	12/14/2023			12/20/2023 13:20	Kenneth H Lee	2457094