

Chemical Analysis Report

SE-DIST-2024-06-11-03

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

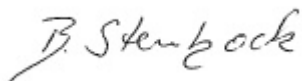
Event Description: **SMP - Palm Beach/Broward (Blank nuts/pest)**
Request ID: **RQ-2024-04-29-39**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 08-JUL-2024 12:37



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: SOSPIRO AT LAS OLAS

Collection Date/Time: 06/10/2024 10:40

Field ID: G4SE0032

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2492986	EPA 200.7 Rev. 4.4	Calcium	360		mg/L	P446590	
		Chromium	4.0	U	ug/L	P446590	
		Iron	120	U	ug/L	P446590	
		Magnesium	1.10E+03		mg/L	P446590	
		Potassium	332		mg/L	P446590	
		Sodium	8.78E+03		mg/L	P446590	
		Strontium	6.52E+03		ug/L	P446590	
		Tin	12	U	ug/L	P446590	
		Titanium	3.0	U	ug/L	P446590	
		Vanadium	8.0	U	ug/L	P446590	
		Zinc	44	I	ug/L	P446590	
	EPA 200.8 Rev. 5.4	Aluminum	20	U	ug/L	P446590	
		Antimony	0.20	U	ug/L	P446590	
		Arsenic	2.19		ug/L	P446590	
		Barium	17.9		ug/L	P446590	
		Beryllium	0.040	U	ug/L	P446590	
		Boron	3.67E+03		ug/L	P446590	
		Cadmium	0.080	U	ug/L	P446590	
		Cobalt	0.24	I	ug/L	P446590	
		Copper	12.8		ug/L	P446590	
		Lead	0.80	U	ug/L	P446590	
		Manganese	6.8		ug/L	P446590	
		Molybdenum	11.2		ug/L	P446590	
		Nickel	2.3	I	ug/L	P446590	
		Selenium	0.80	U	ug/L	P446590	
		Silver	0.040	U	ug/L	P446802	
		Thallium	0.40	U	ug/L	P446590	
	SM 2340 B-2011	Hardness	5.43E+03		mg/L	P446590	

Ref. Method and Comment:
 EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for magnesium, potassium and sodium are unavailable because of high analyte concentration in the QC sample.
 EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for boron are unavailable because of high analyte concentration in the QC sample. The copper result was confirmed in the undigested sample on 06/19/2024.

Sample Location: E 1 WEST AT GLADES

Collection Date/Time: 06/10/2024 12:10

Field ID: G3SE0033

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2492954	DEP SOP: NU-094-1	Color (true)	35		PCU	P446346	
	EPA 180.1 Rev. 2.0	Turbidity	3.3		NTU	P446355	
	EPA 300.0 Rev. 2.1	Chloride	48		mg Cl/L	P446807	
		Sulfate	30		mg SO4/L	P446812	
	SM 2320 B-2011	Total Alkalinity	116		mg CaCO3/L	P446597	
	SM 2540 C-2015	TDS	264	A	mg/L	P446678	
	SM 2540 D-2015	TSS	5	IA	mg/L	P446670	
	SM 4500-F- C-2011	Fluoride	0.22		mg F/L	P446600	
2492955	EPA 350.1 Rev. 2.0	Ammonia-N	0.010		mg N/L	P446751	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P446717	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P446476	
	EPA 365.1 Rev. 2.0	Total-P	0.051		mg P/L	P446573	
	SM 5310 B-2014	Organic Carbon	12		mg C/L	P446603	
2492985	EPA 200.7 Rev. 4.4	Calcium	52.5		mg/L	P446595	
		Chromium	1.0	U	ug/L	P446595	
		Iron	30	U	ug/L	P446595	
		Magnesium	5.34		mg/L	P446595	
		Potassium	5.6		mg/L	P446595	
		Sodium	29.5		mg/L	P446595	
		Strontium	573		ug/L	P446595	
		Tin	3.0	U	ug/L	P446595	
		Titanium	0.75	U	ug/L	P446595	
		Vanadium	2.9	I	ug/L	P446595	
		Zinc	6.4	I	ug/L	P446595	
	EPA 200.8 Rev. 5.4	Aluminum	29		ug/L	P446595	
		Antimony	0.39		ug/L	P446595	
		Arsenic	1.73		ug/L	P446595	
		Barium	13.6		ug/L	P446595	
		Beryllium	0.010	U	ug/L	P446595	
		Boron	58.1		ug/L	P446595	
		Cadmium	0.020	U	ug/L	P446595	
		Cobalt	0.043	I	ug/L	P446595	
		Copper	5.26		ug/L	P446595	
		Lead	0.20	U	ug/L	P446595	
		Manganese	9.13		ug/L	P446595	
		Molybdenum	1.67		ug/L	P446595	
		Nickel	1.1	I	ug/L	P446595	
		Selenium	0.20	U	ug/L	P446595	
		Silver	0.010	U	ug/L	P446913	
		Thallium	0.10	U	ug/L	P446595	
		Hardness	153		mg/L	P446595	

Ref. Method and Comment:

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

Sample Location: E 4 AT CLINT MOORE

Collection Date/Time: 06/10/2024 12:40

Field ID: G3SE0019

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2492956	DEP SOP: NU-094-1	Color (true)	72	A	PCU	P446346	
	EPA 180.1 Rev. 2.0	Turbidity	1.6		NTU	P446355	
	EPA 300.0 Rev. 2.1	Chloride	40		mg Cl/L	P446807	
		Sulfate	7.9		mg SO4/L	P446812	
	SM 2320 B-2011	Total Alkalinity	168		mg CaCO3/L	P446597	
	SM 2540 C-2015	TDS	268		mg/L	P446678	
	SM 2540 D-2015	TSS	4	I	mg/L	P446670	
	SM 4500-F- C-2011	Fluoride	0.14		mg F/L	P446600	
2492957	EPA 350.1 Rev. 2.0	Ammonia-N	0.25		mg N/L	P446751	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P446717	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.048		mg N/L	P446476	
	EPA 365.1 Rev. 2.0	Total-P	0.13		mg P/L	P446573	
	SM 5310 B-2014	Organic Carbon	14		mg C/L	P446603	
2492974	EPA 8321B	Aldicarb	0.020	U	ug/L	P446388	
		Aldicarb Sulfone	0.0020	U	ug/L	P446388	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P446388	
		Carbaryl	0.0020	U	ug/L	P446388	
		Carbofuran	0.0020	U	ug/L	P446388	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P446388	
		Methiocarb	0.0020	U	ug/L	P446388	
		Methomyl	0.0020	U	ug/L	P446388	
		Oxamyl	0.0020	U	ug/L	P446388	
		Propoxur	0.0020	U	ug/L	P446388	
		2,4-D	0.0039	I	ug/L	P446387	
		Acesulfame K	0.15	I	ug/L	P446270	
		2,4,5-T	0.0040	U	ug/L	P446387	
2492975		AMPA	0.13	I	ug/L	P446270	
		Acetaminophen	0.0080	U	ug/L	P446387	
		Acetamiprid	0.0020	U	ug/L	P446387	
		Endothall	0.25	U	ug/L	P446270	
		Glufosinate	0.10	U	ug/L	P446270	
		Glyphosate	0.42		ug/L	P446270	
		Afidopyropen	0.0020	U	ug/L	P446387	
		Bentazon	0.36		ug/L	P446387	
		Sucralose	0.29		ug/L	P446270	
		Benzovindiflupyr	0.0020	U	ug/L	P446387	
		Carbamazepine	8.0E-04	U	ug/L	P446387	
		Clothianidin	0.0020	U	ug/L	P446387	
		Dinotefuran	0.0020	U	ug/L	P446387	
		Diuron	0.016		ug/L	P446387	
		Fenuron	0.032	U	ug/L	P446387	
		Fluridone	0.066		ug/L	P446387	
		Imazapyr	0.13		ug/L	P446387	
		Hydrocodone	0.0020	U	ug/L	P446387	

Field ID: G3SE0019

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2492975	EPA 8321B	Ibuprofen	0.080	U	ug/L	P446387	
		Imidacloprid	0.0064	I	ug/L	P446387	
		Linuron	0.0020	U	ug/L	P446387	
		Mandestrobin	0.0020	U	ug/L	P446387	
		MCP	0.0020	U	ug/L	P446387	
		Naproxen	0.0080	U	ug/L	P446387	
		Primidone	0.0040	U	ug/L	P446387	
		Pyraclostrobin	0.0020	U	ug/L	P446387	
		Silvex	0.0040	U	ug/L	P446387	
		Thiamethoxam	0.0043	I	ug/L	P446387	
		Tolfenpyrad	0.0020	U	ug/L	P446387	RPD
		Triclopyr	0.0040	U	ug/L	P446387	
2492980	EPA 8270E	Aldrin	0.68	U	ng/L	P446326	
		Alpha-BHC	0.10	U	ng/L	P446326	
		Alpha-Chlordane	0.21	U	ng/L	P446326	
		PCB-1016	2.1	U	ng/L	P446326	
		Beta-BHC	0.10	U	ng/L	P446326	
		PCB-1221	2.1	U	ng/L	P446326	
		Beta-Cyfluthrin	1.3	U	ng/L	P446326	
		PCB-1232	2.1	U	ng/L	P446326	
		Bifenthrin	0.52	U	ng/L	P446326	
		PCB-1242	2.1	U	ng/L	P446326	
		PCB-1248	2.1	U	ng/L	P446326	
		Chlorothalonil	3.8	U	ng/L	P446326	MS
		PCB-1254	2.1	U	ng/L	P446326	
		Cis-Nonachlor	0.21	U	ng/L	P446326	
		PCB-1260	2.1	U	ng/L	P446326	
		Cypermethrin	1.6	U	ng/L	P446326	
		Dacthal	0.16	U	ng/L	P446326	
		DDD-p,p'	0.26	U	ng/L	P446326	
		DDE-p,p'	0.21	U	ng/L	P446326	
		DDT-p,p'	0.84	U	ng/L	P446326	
		Delta-BHC	0.42	U	ng/L	P446326	
		Deltamethrin	1.3	U	ng/L	P446326	
		Dichlobenil	0.26	U	ng/L	P446326	
		Dicofol	1.3	U	ng/L	P446326	
		Dieldrin	0.42	U	ng/L	P446326	
		Endosulfan I	0.42	U	ng/L	P446326	
		Endosulfan II	0.94	U	ng/L	P446326	
		Endosulfan Sulfate	0.31	U	ng/L	P446326	
		Endrin	0.94	U	ng/L	P446326	
		Endrin Aldehyde	0.78	U	ng/L	P446326	
		Endrin Ketone	0.42	U	ng/L	P446326	
		Esfenvalerate	0.78	U	ng/L	P446326	
		Ethalfuralin	0.16	U	ng/L	P446326	

Field ID: G3SE0019

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2492980	EPA 8270E	Fenpropathrin	0.26	U	ng/L	P446326	
		Gamma-BHC	0.13	U	ng/L	P446326	
		Gamma-Chlordane	0.21	U	ng/L	P446326	
		Heptachlor	0.21	U	ng/L	P446326	
		Heptachlor Epoxide	0.26	U	ng/L	P446326	
		Hexachlorobenzene**	1.0	U	ng/L	P446326	
		Kepone	14	U	ng/L	P446326	
		Lambda-Cyhalothrin	0.78	U	ng/L	P446326	
		Methoprene	0.78	U	ng/L	P446326	
		Methoxychlor	0.31	U	ng/L	P446326	
		MGK-264	0.21	U	ng/L	P446326	
		Mirex	0.37	U	ng/L	P446326	
		Oxychlordane	0.31	U	ng/L	P446326	
		Permethrin	1.7	U	ng/L	P446326	
		Phenothrin	0.94	U	ng/L	P446326	
		Piperonyl Butoxide	0.16	U	ng/L	P446326	
		Prallethrin	2.1	U	ng/L	P446326	
		Tau-Fluvalinate	0.26	U	ng/L	P446326	
		Tetramethrin	0.78	U	ng/L	P446326	
		Trans-Nonachlor	0.21	U	ng/L	P446326	
		Triclosan Methyl	0.16	U	ng/L	P446326	
		Trifluralin	0.21	U	ng/L	P446326	
		Chlordane	2.1	U	ng/L	P446326	
		Toxaphene	16	U	ng/L	P446326	
2492981	EPA 8270E	Oxybenzone**	10	U	ng/L	P446557	
		Acetochlor	0.21	U	ng/L	P446557	
		Octinoxate**	160	U	ng/L	P446557	
		Alachlor	0.42	UJ	ng/L	P446557	MS
		Avobenzone**	100	U	ng/L	P446557	
		Ametryn	1.2	U	ng/L	P446557	
		Atrazine	3.5		ng/L	P446557	
		PBDE-47**	4.2	U	ng/L	P446557	
		Atrazine Desethyl	1.4	U	ng/L	P446557	
		PBDE-99**	5.2	U	ng/L	P446557	
		Azinphos Methyl	3.1	U	ng/L	P446557	
		Tri-o-cresyl Phosphate**	6.3	U	ng/L	P446557	
		Azoxystrobin	0.42	U	ng/L	P446557	
		Bromacil	0.63	U	ng/L	P446557	
		2-Ethylhexyl	13	U	ng/L	P446557	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.47	U	ng/L	P446557	
		Dechlorane Plus**	31	U	ng/L	P446557	
		Caffeine**	9.9	I	ng/L	P446557	
		Dechlorane 602**	5.2	U	ng/L	P446557	
		Carbophenothion	0.52	U	ng/L	P446557	

Field ID: G3SE0019

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2492981	EPA 8270E	Dechlorane 603**	4.2	U	ng/L	P446557	CCV
		Carfentrazone Ethyl	0.16	U	ng/L	P446557	
		Hexabromobenzene**	6.3	U	ng/L	P446557	
		Chlorfenapyr	0.31	UJ	ng/L	P446557	
		PBB-153**	6.3	U	ng/L	P446557	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P446557	
		Pentabromotoluene**	3.1	U	ng/L	P446557	
		Chlorpyrifos Methyl	0.10	U	ng/L	P446557	
		Tris(2-chloroethyl) phosphate (TCEP)**	58	U	ng/L	P446557	
		Coumaphos	1.1	U	ng/L	P446557	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	97		ng/L	P446557	
		Cyanazine	5.2	U	ng/L	P446557	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.9	I	ng/L	P446557	
		Cyprodinil	0.21	U	ng/L	P446557	
		Tetradecachloro-m-terphenyl**	7.9	U	ng/L	P446557	
		Demeton	3.7	U	ng/L	P446557	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	63	U	ng/L	P446557	
		Diazinon	0.13	U	ng/L	P446557	
		Difenoconazole	0.63	U	ng/L	P446557	
		Dimethenamid	0.10	U	ng/L	P446557	
		Dimethomorph	0.31	U	ng/L	P446557	
		Disulfoton	0.63	U	ng/L	P446557	
		Dithiopyr	1.0	U	ng/L	P446557	
		EPTC	0.52	U	ng/L	P446557	
		Ethion	0.31	U	ng/L	P446557	
		Ethoprop	0.13	U	ng/L	P446557	
		Etridiazole	0.10	U	ng/L	P446557	
		Fenamiphos	0.47	U	ng/L	P446557	
		Fenbuconazole	0.52	U	ng/L	P446557	
		Fipronil	0.29	I	ng/L	P446557	
		Fipronil Desulfinyl**	0.90		ng/L	P446557	
		Fipronil Sulfide	1.1		ng/L	P446557	
		Fipronil Sulfone	1.6		ng/L	P446557	
		Fluazifop-P-butyl	0.10	U	ng/L	P446557	
		Fludioxonil	0.10	U	ng/L	P446557	
		Flumioxazin	3.1	U	ng/L	P446557	
		Flutolanil	0.10	UJ	ng/L	P446557	MS
		Fluxapyroxad	0.55	I	ng/L	P446557	
		Fonofos	0.16	U	ng/L	P446557	
		Hexazinone	3.5		ng/L	P446557	
		Imazalil	0.68	U	ng/L	P446557	
		Iprodione	0.52	U	ng/L	P446557	
		Loratadine**	0.31	U	ng/L	P446557	
		Malathion	0.37	U	ng/L	P446557	

Field ID: G3SE0019

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2492981	EPA 8270E	Metalaxyl	0.73	I	ng/L	P446557	
		Metolachlor	0.79	U	ng/L	P446557	
		Metribuzin	1.2	I	ng/L	P446557	
		Mevinphos	1.0	U	ng/L	P446557	
		Molinate	0.26	U	ng/L	P446557	
		Myclobutanil	0.37	U	ng/L	P446557	
		Naled	2.6	U	ng/L	P446557	
		Napropamide	0.73	U	ng/L	P446557	
		Norflurazon	1.0	U	ng/L	P446557	
		Oxadiazon	26		ng/L	P446557	
		Oxyfluorfen	0.21	U	ng/L	P446557	
		Parathion Ethyl	0.16	U	ng/L	P446557	
		Parathion Methyl	0.21	UJ	ng/L	P446557	CCV
		Pendimethalin	1.8	UJ	ng/L	P446557	MS
		Phenytol**	5.6	U	ng/L	P446557	
		Phorate	0.26	U	ng/L	P446557	
		Prodiamine	0.21	U	ng/L	P446557	
		Prometon	3.1	U	ng/L	P446557	
		Prometryn	0.37	U	ng/L	P446557	
		Pronamide	0.10	U	ng/L	P446557	
		Propanil	0.10	U	ng/L	P446557	
		Propargite	0.84	U	ng/L	P446557	
		Propiconazole	0.63	U	ng/L	P446557	
		Pyraflufen Ethyl	0.31	U	ng/L	P446557	
		Pyridaben	1.5	U	ng/L	P446557	
		Pyriproxyfen	0.26	U	ng/L	P446557	
		Simazine	0.26	U	ng/L	P446557	
		Stirophos	0.42	U	ng/L	P446557	
		Sulfentrazone	160		ng/L	P446557	
		Tebuconazole	1.5	U	ng/L	P446557	
		Terbufos	0.21	U	ng/L	P446557	
		Terbutylazine	0.21	U	ng/L	P446557	
		Thiobencarb	0.52	U	ng/L	P446557	
		Triadimefon	0.16	U	ng/L	P446557	

Ref. Method and Comment:

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

EPA 8270E: MS accuracy for kepone not assessed due to high content of this parameter in the sample spiked. MS precision for chlorothalonil not assessed due to very low recoveries.

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

Sample Location: ICWW SOUTH OF HILLSBORO BLVD

Collection Date/Time: 06/10/2024 11:30

Field ID: G4SE0147

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2492958	DEP SOP: NU-094-1	Color (true)	25	U	PCU	P446346	
	EPA 180.1 Rev. 2.0	Turbidity	0.80	I	NTU	P446355	
	EPA 300.0 Rev. 2.1	Chloride	2.0E+04		mg Cl/L	P446807	
		Sulfate	2.7E+03		mg SO4/L	P446812	
	SM 2320 B-2011	Total Alkalinity	121		mg CaCO3/L	P446607	
	SM 2540 C-2015	TDS	3.42E+04		mg/L	P446678	
	SM 2540 D-2015	TSS	3	U	mg/L	P446671	
2492959	SM 4500-F- C-2011	Fluoride	1.2		mg F/L	P446602	RPD
	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P446753	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.30	I	mg N/L	P446716	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P446683	
	EPA 365.1 Rev. 2.0	Total-P	0.022		mg P/L	P446845	
2492982	SM 5310 B-2014	Organic Carbon	2.1	I	mg C/L	P446606	
	EPA 8270E	Aldrin	0.68	U	ng/L	P446326	
		Alpha-BHC	0.11	U	ng/L	P446326	
		Alpha-Chlordane	0.21	U	ng/L	P446326	
		PCB-1016	2.1	U	ng/L	P446326	
		Beta-BHC	0.11	U	ng/L	P446326	
		PCB-1221	2.1	U	ng/L	P446326	
		Beta-Cyfluthrin	1.3	U	ng/L	P446326	
		PCB-1232	2.1	U	ng/L	P446326	
		Bifenthrin	0.53	U	ng/L	P446326	
		PCB-1242	2.1	U	ng/L	P446326	
		PCB-1248	2.1	U	ng/L	P446326	
		Chlorothalonil	3.8	U	ng/L	P446326	MS
		PCB-1254	2.1	U	ng/L	P446326	
		Cis-Nonachlor	0.21	U	ng/L	P446326	
		PCB-1260	2.1	U	ng/L	P446326	
		Cypermethrin	1.6	U	ng/L	P446326	
		Dacthal	0.16	U	ng/L	P446326	
		DDD-p,p'	0.26	U	ng/L	P446326	
		DDE-p,p'	0.21	U	ng/L	P446326	
		DDT-p,p'	0.84	U	ng/L	P446326	
		Delta-BHC	0.42	U	ng/L	P446326	
		Deltamethrin	1.3	U	ng/L	P446326	
		Dichlobenil	0.26	U	ng/L	P446326	
		Dicofol	1.3	U	ng/L	P446326	
		Diieldrin	0.42	U	ng/L	P446326	
		Endosulfan I	0.42	U	ng/L	P446326	
		Endosulfan II	0.95	U	ng/L	P446326	
		Endosulfan Sulfate	0.32	U	ng/L	P446326	
		Endrin	0.95	U	ng/L	P446326	
		Endrin Aldehyde	0.79	U	ng/L	P446326	
		Endrin Ketone	0.42	U	ng/L	P446326	

Field ID: G4SE0147

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2492982	EPA 8270E	Esfenvalerate	0.79	U	ng/L	P446326	
		Ethalfuralin	0.16	U	ng/L	P446326	
		Fenpropathrin	0.26	U	ng/L	P446326	
		Gamma-BHC	0.13	U	ng/L	P446326	
		Gamma-Chlordane	0.21	U	ng/L	P446326	
		Heptachlor	0.21	U	ng/L	P446326	
		Heptachlor Epoxide	0.26	U	ng/L	P446326	
		Hexachlorobenzene**	1.1	U	ng/L	P446326	
		Kepone	14	U	ng/L	P446326	
		Lambda-Cyhalothrin	0.79	U	ng/L	P446326	
		Methoprene	0.79	U	ng/L	P446326	
		Methoxychlor	0.32	U	ng/L	P446326	
		MGK-264	0.21	U	ng/L	P446326	
		Mirex	0.37	U	ng/L	P446326	
		Oxychlordane	0.32	U	ng/L	P446326	
		Permethrin	1.7	U	ng/L	P446326	
		Phenothrin	0.95	U	ng/L	P446326	
		Piperonyl Butoxide	0.22	I	ng/L	P446326	
		Prallethrin	2.1	U	ng/L	P446326	
		Tau-Fluvalinate	0.26	U	ng/L	P446326	
		Tetramethrin	0.79	U	ng/L	P446326	
		Trans-Nonachlor	0.21	U	ng/L	P446326	
		Triclosan Methyl	0.16	U	ng/L	P446326	
		Trifluralin	0.21	U	ng/L	P446326	
	EPA 8276	Chlordane	2.1	U	ng/L	P446326	
		Toxaphene	16	U	ng/L	P446326	

Ref. Method and Comment:
DEP SOP: NU-094-1: The MDL was elevated because of sample matrix interference.
EPA 8270E: MS accuracy for kepone not assessed due to high content of this parameter in the sample spiked. MS precision for chlorothalonil not assessed due to very low recoveries.

Sample Location: FB

Collection Date/Time: 06/10/2024 11:40

Field ID: FB_06102024

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2492960	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P446346	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P446355	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P446807	
		Sulfate	0.20	U	mg SO4/L	P446812	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P446597	
	SM 2540 C-2015	TDS	15	U	mg/L	P446677	
	SM 2540 D-2015	TSS	2	U	mg/L	P446669	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P446600	
2492961	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P446754	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P446717	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P446476	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P446573	
	SM 5310 B-2014	Organic Carbon	0.50	U	mg C/L	P446605	

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

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P446346

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P446355

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P446590

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Chromium	1.0	U	ug/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 200.7 Rev. 4.4
Batch ID: P446595

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Chromium	1.0	U	ug/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: P446590

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
Cobalt	0.020	U	ug/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P446590

Component	Result	Code	Units
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
Thallium	0.10	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P446595

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
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
Thallium	0.10	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P446802

Component	Result	Code	Units
Silver	0.010	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P446913

Component	Result	Code	Units
Silver	0.010	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P446807

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P446812

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: P446751

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446753

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446754

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446716

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446717

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446476

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446683

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446573

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446845

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P446326

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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P446326

Component	Result	Code	Units
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8270E

Batch ID: P446557

Component	Result	Code	Units
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	60	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.45	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P446557

Component	Result	Code	Units
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
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
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
Batch ID: P446557

Component	Result	Code	Units
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	55	U	ng/L

Reference Method: EPA 8276
Batch ID: P446326

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

Reference Method: EPA 8321B
Batch ID: P446270

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: P446387

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	4.0E-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	0.0020	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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P446388

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: P446597

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

Reference Method: SM 2320 B-2011
Batch ID: P446607

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

Reference Method: SM 2540 C-2015
Batch ID: P446677

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2015
Batch ID: P446678

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P446669

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P446670

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P446671

Component	Result	Code	Units
TSS	3	U	mg/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 4500-F- C-2011
Batch ID: P446600

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P446602

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2014
Batch ID: P446603

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Reference Method: SM 5310 B-2014
Batch ID: P446605

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Reference Method: SM 5310 B-2014
Batch ID: P446606

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: P446346

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.7		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P446355

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P446590

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	98.4		P	85 - 115
Chromium	98.7		P	85 - 115
Iron	103		P	85 - 115
Magnesium	98.3		P	85 - 115
Potassium	95.6		P	85 - 115
Sodium	97.7		P	85 - 115
Strontium	102		P	85 - 115
Tin	99.8		P	85 - 115
Titanium	98.4		P	85 - 115
Vanadium	101		P	85 - 115
Zinc	98.1		P	85 - 115

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P446595

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Chromium	101		P	85 - 115
Iron	112		P	85 - 115
Magnesium	105		P	85 - 115
Potassium	99.8		P	85 - 115
Sodium	101		P	85 - 115
Strontium	99.9		P	85 - 115
Tin	99.6		P	85 - 115
Titanium	101		P	85 - 115
Vanadium	100		P	85 - 115
Zinc	99.5		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P446590

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	103		P	85 - 115
Antimony	107		P	85 - 115
Arsenic	103		P	85 - 115
Barium	104		P	85 - 115
Beryllium	103		P	85 - 115
Boron	109		P	85 - 115
Cadmium	103		P	85 - 115
Cobalt	109		P	85 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P446590

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Copper	103		P	85 - 115
Lead	111		P	85 - 115
Manganese	105		P	85 - 115
Molybdenum	104		P	85 - 115
Nickel	104		P	85 - 115
Selenium	103		P	85 - 115
Thallium	106		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P446595

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	101		P	85 - 115
Antimony	107		P	85 - 115
Arsenic	103		P	85 - 115
Barium	104		P	85 - 115
Beryllium	111		P	85 - 115
Boron	107		P	85 - 115
Cadmium	104		P	85 - 115
Cobalt	109		P	85 - 115
Copper	104		P	85 - 115
Lead	110		P	85 - 115
Manganese	104		P	85 - 115
Molybdenum	102		P	85 - 115
Nickel	103		P	85 - 115
Selenium	104		P	85 - 115
Thallium	103		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P446802

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

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P446913

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P446807

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P446812

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446751

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446753

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446754

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446716

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	95.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446717

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	94.8		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446476

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446683

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446573

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446845

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P446326

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	56.3		P	30 - 96.0
Alpha-BHC	85.0		P	70 - 109
Alpha-Chlordane	65.0		P	45 - 107
Beta-BHC	107		P	64 - 138
Beta-Cyfluthrin	86.1		P	17 - 141
Bifenthrin	58.4		P	10 - 113
Chlorothalonil	104		P	26 - 180
Cis-Nonachlor	66.7		P	37 - 102
Cypermethrin	76.4		P	20 - 133
Dacthal	90.3		P	69 - 114
DDD-p,p'	72.1		P	42 - 105
DDE-p,p'	75.6		P	42 - 106
DDT-p,p'	62.5		P	42 - 107
Delta-BHC	112		P	67 - 144
Deltamethrin	102		P	15 - 149
Dichlobenil	74.1		P	46 - 117
Dicofol	59.3		P	34 - 114
Dieldrin	69.6		P	50 - 108
Endosulfan I	85.0		P	55 - 104
Endosulfan II	72.6		P	51 - 111
Endosulfan Sulfate	91.2		P	56 - 121
Endrin	81.2		P	10 - 106
Endrin Aldehyde	71.7		P	34 - 114
Endrin Ketone	87.2		P	63 - 177
Esfenvalerate	85.6		P	29 - 143
Ethalfuralin	55.9		P	46 - 96.0
Fenpropathrin	65.2		P	28 - 115
Gamma-BHC	86.3		P	65 - 121
Gamma-Chlordane	72.4		P	39 - 103
Heptachlor	57.1		P	39 - 94.0
Heptachlor Epoxide	78.3		P	54 - 104
Hexachlorobenzene	65.3		P	36 - 100
Kepone	142		P	10 - 225
Lambda-Cyhalothrin	61.9		P	10 - 135
Methoprene	64.8		P	10 - 109
Methoxychlor	75.4		P	52 - 112
MGK-264	86.5		P	44 - 117
Mirex	56.1		P	20 - 90.0
Oxychlordane	67.0		P	44 - 102
PCB-1016	74.7		P	45 - 107
PCB-1260	79.9		P	40 - 118
Permethrin	70.0		P	18 - 135
Phenothrin	52.4		P	10 - 102
Piperonyl Butoxide	78.4		P	28 - 156
Prallethrin	73.1		P	28 - 113
Tau-Fluvalinate	68.9		P	10 - 123
Tetramethrin	80.1		P	18 - 158
Trans-Nonachlor	72.3		P	39 - 104
Triclosan Methyl	84.5		P	54 - 108
Trifluralin	71.7		P	46 - 97.0

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P446557

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	83.7		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	118		P	37 - 154
Acetochlor	71.5		P	64 - 124
Alachlor	69.2		P	61 - 118
Ametryn	69.2		P	47 - 158
Atrazine	75.4		P	68 - 121
Atrazine Desethyl	64.4		P	30 - 119
Avobenzone	147		P	48 - 193
Azinphos Methyl	111		P	30 - 194
Azoxystrobin	83.5		P	58 - 154
Bromacil	83.9		P	47 - 126
Butylate	52.2		P	31 - 83.0
Caffeine	96.2		P	10 - 180
Carbophenothion	88.6		P	59 - 133
Carfentrazone Ethyl	86.2		P	59 - 147
Chlorfenapyr	87.1		P	52 - 118
Chlorpyrifos Ethyl	75.6		P	59 - 119
Chlorpyrifos Methyl	88.4		P	65 - 123
Coumaphos	143		P	11 - 223
Cyanazine	126		P	63 - 250
Cyprodinil	81.7		P	52 - 143
Dechlorane 602	92.1		P	23 - 142
Dechlorane 603	117		P	51 - 171
Dechlorane Plus	122		P	46 - 161
Demeton	68.5		P	42 - 119
Diazinon	80.5		P	67 - 132
Difenoconazole	139		P	12 - 204
Dimethenamid	79.3		P	53 - 113
Dimethomorph	118		P	13 - 238
Disulfoton	64.9		P	56 - 126
Dithiopyr	75.6		P	58 - 127
EPTC	47.6		P	31 - 78.0
Ethion	81.4		P	24 - 127
Ethoprop	75.2		P	60 - 118
Etridiazole	59.2		P	32 - 91.0
Fenamiphos	72.4		P	54 - 129
Fenbuconazole	37.9		P	31 - 162
Fipronil	69.9		P	56 - 131
Fipronil Desulfinyl	81.0		P	58 - 132
Fipronil Sulfide	79.5		P	51 - 123
Fipronil Sulfone	80.6		P	50 - 125
Fluazifop-P-butyl	86.4		P	52 - 132
Fludioxonil	82.0		P	52 - 129
Flumioxazin	167		P	34 - 250
Flutolanil	89.1		P	45 - 128
Fluxapyroxad	82.9		P	31 - 150
Fonofos	71.2		P	60 - 116
Hexabromobenzene	90.2		P	52 - 165
Hexazinone	82.5		P	59 - 120
Imazalil	66.1		P	39 - 134
Iprodione	77.2		P	39 - 243
Loratadine	126		P	10 - 240

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P446557

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Malathion	83.0		P	53 - 145
Metalaxyl	70.2		P	59 - 120
Metolachlor	86.3		P	64 - 122
Metribuzin	83.8		P	33 - 128
Mevinphos	77.3		P	48 - 119
Molinate	61.6		P	42 - 89.0
Myclobutanil	80.9		P	54 - 129
Naled	59.9		P	10 - 138
Napropamide	80.7		P	40 - 122
Norflurazon	84.5		P	49 - 132
Octinoxate	101		P	29 - 176
Oxadiazon	74.8		P	50 - 115
Oxybenzone	103		P	45 - 145
Oxyfluorfen	109		P	62 - 149
Parathion Ethyl	84.2		P	68 - 119
Parathion Methyl	112		P	68 - 147
PBB-153	119		P	42 - 179
PBDE-47	103		P	44 - 141
PBDE-99	103		P	36 - 141
Pendimethalin	119		P	59 - 158
Pentabromotoluene	94.4		P	58 - 148
Phenytoin	58.2		P	10 - 151
Phorate	68.1		P	44 - 124
Prodiamine	91.2		P	10 - 136
Prometon	80.3		P	45 - 131
Prometryn	76.8		P	52 - 140
Pronamide	80.6		P	70 - 129
Propanil	81.0		P	54 - 144
Propargite	104		P	10 - 191
Propiconazole	69.5		P	49 - 128
Pyraflufen Ethyl	88.9		P	46 - 141
Pyridaben	113		P	29 - 198
Pyriproxyfen	76.2		P	33 - 221
Simazine	75.9		P	62 - 119
Stirophos	90.8		P	13 - 144
Sulfentrazone	82.2		P	12 - 152
Tebuconazole	72.7		P	10 - 135
Terbufos	78.3		P	67 - 136
Terbutylazine	83.0		P	66 - 113
Tetradecachloro-m-terphenyl	115		P	30 - 235
Thiobencarb	86.7		P	51 - 125
Tri-o-cresyl Phosphate	115		P	50 - 150
Triadimefon	82.9		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	114		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	115		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	128		P	59 - 166

Reference Method: EPA 8276
Batch ID: P446326

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	79.5		P	52 - 117

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8276

Batch ID: P446326

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Toxaphene	61.2		P	44 - 125

Reference Method: EPA 8321B

Batch ID: P446270

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	104		P	40 - 150
AMPA	110		P	40 - 160
Endothall	117		P	40 - 160
Glufosinate	114		P	40 - 160
Glyphosate	110		P	40 - 160
Sucralose	98.9		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P446387

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	90.9		P	40 - 150
2,4,5-T	88.3		P	40 - 150
Acetaminophen	67.5		P	30 - 150
Acetamiprid	85.0		P	40 - 150
Afidopyropen	66.9		P	30 - 150
Bentazon	79.8		P	30 - 150
Benzovindiflupyr	78.9		P	40 - 150
Carbamazepine	81.9		P	40 - 150
Clothianidin	66.6		P	40 - 150
Dinotefuran	89.7		P	40 - 150
Diuron	77.0		P	40 - 150
Fenuron	92.6		P	40 - 150
Fluridone	90.3		P	40 - 150
Hydrocodone	96.6		P	40 - 150
Ibuprofen	57.9		P	40 - 150
Imazapyr	89.8		P	40 - 150
Imidacloprid	91.6		P	40 - 150
Linuron	75.3		P	40 - 150
Mandestrobin	90.7		P	40 - 150
MCPP	93.1		P	40 - 150
Naproxen	59.1		P	40 - 150
Primidone	86.1		P	40 - 150
Pyraclostrobin	81.3		P	40 - 150
Silvex	82.3		P	40 - 150
Thiamethoxam	89.4		P	40 - 150
Tolfenpyrad	40.2		P	30 - 150
Triclopyr	76.7		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P446388

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	73.9		P	40 - 150
Aldicarb	55.0		P	30 - 150
Aldicarb Sulfone	92.4		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P446388

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldicarb Sulfoxide	126		P	40 - 150
Carbaryl	82.8		P	40 - 150
Carbofuran	72.2		P	40 - 150
Methiocarb	77.7		P	40 - 150
Methomyl	97.1		P	40 - 150
Oxamyl	98.3		P	40 - 150
Propoxur	82.9		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P446597

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.5		P	93 - 103

Reference Method: SM 2320 B-2011
Batch ID: P446607

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	93 - 103

Reference Method: SM 2540 C-2015
Batch ID: P446677

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	96.8		P	85 - 115

Reference Method: SM 2540 C-2015
Batch ID: P446678

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	96.0		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P446669

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	88.8		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P446670

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

Reference Method: SM 2540 D-2015
Batch ID: P446671

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P446600

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.8		P	95 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P446602

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.3		P	95 - 106

Reference Method: SM 5310 B-2014
Batch ID: P446603

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.2		P	85 - 115

Reference Method: SM 5310 B-2014
Batch ID: P446605

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.0		P	85 - 115

Reference Method: SM 5310 B-2014
Batch ID: P446606

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.3		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P446590

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2493604	Calcium	101		P	70 - 130
2493604	Chromium	96.6	98.2	P/P	70 - 130
2493604	Iron	102	105	P/P	70 - 130
2493604	Strontium	96.7	97.0	P/P	70 - 130
2493604	Tin	100	102	P/P	70 - 130
2493604	Titanium	102	104	P/P	70 - 130
2493604	Vanadium	104	106	P/P	70 - 130
2493604	Zinc	105	107	P/P	70 - 130

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P446595

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492499	Calcium	105		P	80 - 120
2492499	Chromium	99.3	98.0	P/P	80 - 120
2492499	Iron	112	111	P/P	80 - 120
2492499	Magnesium	106		P	80 - 120
2492499	Potassium	102		P	80 - 120
2492499	Sodium	102		P	80 - 120
2492499	Strontium	98.1	98.6	P/P	80 - 120
2492499	Tin	97.5	97.6	P/P	80 - 120
2492499	Titanium	100	99.4	P/P	80 - 120
2492499	Vanadium	101	101	P/P	80 - 120
2492499	Zinc	98.7	98.9	P/P	80 - 120
2493960	Calcium	99.9		P	80 - 120
2493960	Chromium	98.8		P	80 - 120
2493960	Iron	108		P	80 - 120
2493960	Magnesium	106		P	80 - 120
2493960	Potassium	96.9		P	80 - 120
2493960	Sodium	99.2		P	80 - 120
2493960	Strontium	95.1		P	80 - 120
2493960	Tin	94.8		P	80 - 120
2493960	Titanium	98.4		P	80 - 120
2493960	Vanadium	100		P	80 - 120
2493960	Zinc	98.1		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P446590

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2493604	Aluminum	103	101	P/P	70 - 130
2493604	Antimony	112	111	P/P	70 - 130
2493604	Arsenic	110	110	P/P	70 - 130
2493604	Barium	104	105	P/P	70 - 130
2493604	Beryllium	103	102	P/P	70 - 130
2493604	Cadmium	101	102	P/P	70 - 130
2493604	Cobalt	109	109	P/P	70 - 130
2493604	Copper	109	109	P/P	70 - 130
2493604	Lead	114	115	P/P	70 - 130
2493604	Manganese	103	103	P/P	70 - 130
2493604	Molybdenum	109	110	P/P	70 - 130
2493604	Nickel	105	104	P/P	70 - 130

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P446590

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2493604	Selenium	106	104	P/P	70 - 130
2493604	Thallium	106	107	P/P	70 - 130

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P446595

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492499	Aluminum	103	102	P/P	80 - 120
2492499	Antimony	108	109	P/P	80 - 120
2492499	Arsenic	105	105	P/P	80 - 120
2492499	Barium	103	104	P/P	80 - 120
2492499	Beryllium	115	115	P/P	80 - 120
2492499	Boron	108	108	P/P	80 - 120
2492499	Cadmium	101	103	P/P	80 - 120
2492499	Cobalt	108	108	P/P	80 - 120
2492499	Copper	104	105	P/P	80 - 120
2492499	Lead	111	112	P/P	80 - 120
2492499	Manganese	104	105	P/P	80 - 120
2492499	Molybdenum	105	105	P/P	80 - 120
2492499	Nickel	103	103	P/P	80 - 120
2492499	Selenium	102	100	P/P	80 - 120
2492499	Thallium	107	108	P/P	80 - 120
2493960	Aluminum	101		P	80 - 120
2493960	Antimony	109		P	80 - 120
2493960	Arsenic	105		P	80 - 120
2493960	Barium	104		P	80 - 120
2493960	Beryllium	115		P	80 - 120
2493960	Boron	107		P	80 - 120
2493960	Cadmium	101		P	80 - 120
2493960	Cobalt	107		P	80 - 120
2493960	Copper	101		P	80 - 120
2493960	Lead	112		P	80 - 120
2493960	Manganese	104		P	80 - 120
2493960	Molybdenum	104		P	80 - 120
2493960	Nickel	103		P	80 - 120
2493960	Selenium	102		P	80 - 120
2493960	Thallium	107		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P446802

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2491146	Silver	99.2	98.5	P/P	70 - 130

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P446913

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2495037	Silver	104	104	P/P	80 - 120
2495218	Silver	104		P	80 - 120

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P446807

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492868	Chloride	101		P	90 - 110
2492998	Chloride	92.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P446812

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492868	Sulfate	102		P	90 - 110
2492998	Sulfate	105		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446751

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492896	Ammonia-N	91.6	95.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446753

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492915	Ammonia-N	93.6	95.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446754

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492999	Ammonia-N	95.0	96.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446716

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2493215	Kjeldahl Nitrogen	93.0	97.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446717

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492836	Kjeldahl Nitrogen	107	105	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446476

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492897	NO2NO3-N	96.0	97.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446683

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2491742	NO2NO3-N	91.9	91.9	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446573

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2493409	Total-P	103	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446845

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2494775	Total-P	96.0	96.1	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P446326

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2493607	Aldrin	58.5	61.3	P/P	24 - 81.0
2493607	Alpha-BHC	83.1	83.4	P/P	65 - 110
2493607	Alpha-Chlordane	63.1	66.7	P/P	43 - 119
2493607	Beta-BHC	116	126	P/P	54 - 165
2493607	Beta-Cyfluthrin	104	121	P/P	27 - 165
2493607	Bifenthrin	67.8	75.5	P/P	17 - 117
2493607	Chlorothalonil	3.71	1.62	F/F	10 - 255
2493607	Cis-Nonachlor	62.8	66.3	P/P	34 - 98.0
2493607	Cypermethrin	90.8	110	P/P	25 - 143
2493607	Dacthal	84.3	89.1	P/P	55 - 139
2493607	DDD-p,p'	64.3	66.8	P/P	30 - 109
2493607	DDE-p,p'	70.4	76.5	P/P	35 - 106
2493607	DDT-p,p'	58.8	62.3	P/P	41 - 101
2493607	Delta-BHC	132	137	P/P	58 - 165
2493607	Deltamethrin	130	156	P/P	10 - 194
2493607	Dichlobenil	30.8	27.6	P/P	22 - 114
2493607	Dicofol	58.0	62.9	P/P	17 - 133
2493607	Dieldrin	66.9	69.6	P/P	45 - 129
2493607	Endosulfan I	83.3	89.2	P/P	49 - 104
2493607	Endosulfan II	65.9	68.6	P/P	37 - 117
2493607	Endosulfan Sulfate	77.0	76.5	P/P	38 - 128
2493607	Endrin	61.7	76.2	P/P	35 - 116
2493607	Endrin Aldehyde	40.6	44.1	P/P	19 - 108
2493607	Endrin Ketone	91.4	83.8	P/P	44 - 134
2493607	Esfenvalerate	112	136	P/P	27 - 176
2493607	Ethalfuralin	67.8	67.0	P/P	49 - 100
2493607	Fenpropathrin	66.5	74.4	P/P	34 - 117
2493607	Gamma-BHC	82.3	80.2	P/P	59 - 129
2493607	Gamma-Chlordane	72.1	78.6	P/P	33 - 107
2493607	Heptachlor	54.0	54.7	P/P	37 - 94.0
2493607	Heptachlor Epoxide	76.2	82.9	P/P	38 - 118
2493607	Hexachlorobenzene	52.0	56.9	P/P	35 - 97.0
2493607	Lambda-Cyhalothrin	78.7	83.4	P/P	23 - 190
2493607	Methoprene	70.2	78.6	P/P	21 - 109
2493607	Methoxychlor	75.2	78.4	P/P	46 - 118
2493607	MGK-264	86.0	93.1	P/P	39 - 122
2493607	Mirex	59.5	63.6	P/P	25 - 90.0
2493607	Oxychlordane	67.8	72.5	P/P	42 - 100
2493607	Permethrin	78.6	91.3	P/P	33 - 181
2493607	Phenothrin	68.2	80.0	P/P	12 - 125

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P446326

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2493607	Piperonyl Butoxide	72.5	75.4	P/P	10 - 178
2493607	Prallethrin	78.4	74.5	P/P	24 - 122
2493607	Tau-Fluvalinate	96.7	114	P/P	13 - 151
2493607	Tetramethrin	86.3	93.4	P/P	16 - 172
2493607	Trans-Nonachlor	72.8	78.3	P/P	39 - 100
2493607	Triclosan Methyl	78.5	86.0	P/P	43 - 110
2493607	Trifluralin	67.8	74.1	P/P	45 - 94.0
2494013	PCB-1016	75.1	70.8	P/P	45 - 107
2494013	PCB-1260	82.6	83.7	P/P	40 - 112

Reference Method: EPA 8270E

Batch ID: P446557

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492981	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	70.7	69.8	P/P	50 - 150
2492981	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	73.8	80.8	P/P	29 - 155
2492981	Acetochlor	68.8	66.9	P/P	60 - 124
2492981	Alachlor	61.0	51.7	P/F	54 - 122
2492981	Ametryn	59.1	80.8	P/P	51 - 208
2492981	Atrazine	70.1	68.7	P/P	57 - 131
2492981	Atrazine Desethyl	68.5	69.3	P/P	13 - 124
2492981	Avobenzone	151	163	P/P	35 - 187
2492981	Azinphos Methyl	95.0	91.4	P/P	43 - 276
2492981	Azoxystrobin	89.1	85.9	P/P	52 - 300
2492981	Bromacil	80.7	78.4	P/P	44 - 134
2492981	Butylate	49.4	52.4	P/P	23 - 82.0
2492981	Caffeine	116	126	P/P	10 - 277
2492981	Carbophenothion	80.3	77.0	P/P	47 - 135
2492981	Carfentrazone Ethyl	80.0	74.8	P/P	46 - 147
2492981	Chlorfenapyr	84.7	77.6	P/P	43 - 114
2492981	Chlorpyrifos Ethyl	74.7	83.6	P/P	47 - 124
2492981	Chlorpyrifos Methyl	87.0	85.8	P/P	60 - 135
2492981	Coumaphos	132	111	P/P	10 - 222
2492981	Cyanazine	139	128	P/P	10 - 257
2492981	Cyprodinil	80.2	73.9	P/P	42 - 148
2492981	Dechlorane 602	65.2	67.5	P/P	14 - 133
2492981	Dechlorane 603	90.9	74.0	P/P	18 - 191
2492981	Dechlorane Plus	91.4	88.2	P/P	23 - 154
2492981	Demeton	75.0	74.0	P/P	41 - 137
2492981	Diazinon	84.9	83.0	P/P	64 - 139
2492981	Difenoconazole	131	88.5	P/P	46 - 254
2492981	Dimethenamid	77.1	75.3	P/P	47 - 117
2492981	Dimethomorph	195	144	P/P	14 - 255
2492981	Disulfoton	76.1	74.6	P/P	52 - 130
2492981	Dithiopyr	76.7	74.3	P/P	40 - 121
2492981	EPTC	41.6	43.8	P/P	19 - 78.0
2492981	Ethion	76.7	72.1	P/P	12 - 124
2492981	Ethoprop	78.8	76.8	P/P	68 - 144
2492981	Etridiazole	54.2	57.6	P/P	26 - 96.0
2492981	Fenamiphos	64.3	60.7	P/P	41 - 129
2492981	Fenbuconazole	45.5	47.7	P/P	26 - 169
2492981	Fipronil	69.2	67.0	P/P	46 - 145

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P446557

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492981	Fipronil Desulfinyl	81.0	76.3	P/P	47 - 136
2492981	Fipronil Sulfide	73.6	71.3	P/P	41 - 127
2492981	Fipronil Sulfone	74.1	70.6	P/P	35 - 133
2492981	Fluazifop-P-butyl	87.4	83.2	P/P	46 - 131
2492981	Fludioxonil	80.5	71.5	P/P	51 - 124
2492981	Flumioxazin	150	82.9	P/P	10 - 289
2492981	Flutolanil	136	125	F/P	34 - 130
2492981	Fluxapyroxad	73.3	65.0	P/P	10 - 197
2492981	Fonofos	73.8	73.5	P/P	42 - 131
2492981	Hexabromobenzene	62.2	88.7	P/P	47 - 178
2492981	Hexazinone	87.6	88.9	P/P	64 - 125
2492981	Imazalil	77.4	114	P/P	37 - 252
2492981	Iprodione	66.8	60.2	P/P	34 - 265
2492981	Loratadine	179	149	P/P	20 - 231
2492981	Malathion	84.1	82.5	P/P	34 - 164
2492981	Metalaxyl	74.7	62.7	P/P	49 - 125
2492981	Metolachlor	90.3	86.2	P/P	54 - 125
2492981	Metribuzin	81.7	77.9	P/P	51 - 139
2492981	Mevinphos	75.0	75.7	P/P	46 - 130
2492981	Molinate	59.3	60.6	P/P	39 - 93.0
2492981	Myclobutanil	88.9	81.8	P/P	50 - 130
2492981	Naled	50.7	50.1	P/P	10 - 150
2492981	Napropamide	75.5	69.3	P/P	10 - 109
2492981	Norflurazon	71.8	61.5	P/P	36 - 134
2492981	Octinoxate	102	106	P/P	18 - 170
2492981	Oxybenzone	106	110	P/P	33 - 154
2492981	Oxyfluorfen	111	107	P/P	62 - 154
2492981	Parathion Ethyl	83.2	85.6	P/P	65 - 120
2492981	Parathion Methyl	135	135	P/P	77 - 185
2492981	PBB-153	71.4	74.8	P/P	23 - 193
2492981	PBDE-47	92.4	102	P/P	31 - 139
2492981	PBDE-99	68.6	71.4	P/P	24 - 138
2492981	Pendimethalin	154	157	F/F	50 - 146
2492981	Pentabromotoluene	85.6	94.1	P/P	54 - 152
2492981	Phenytoin	49.2	43.3	P/P	10 - 157
2492981	Phorate	75.9	74.8	P/P	54 - 161
2492981	Prodiamine	98.9	52.2	P/P	29 - 160
2492981	Prometon	78.3	73.9	P/P	38 - 145
2492981	Prometryn	77.2	76.0	P/P	32 - 151
2492981	Pronamide	86.5	85.9	P/P	61 - 140
2492981	Propanil	77.4	73.7	P/P	50 - 147
2492981	Propargite	88.8	97.0	P/P	10 - 190
2492981	Propiconazole	66.5	65.8	P/P	30 - 146
2492981	Pyraflufen Ethyl	84.3	71.5	P/P	30 - 147
2492981	Pyridaben	111	84.8	P/P	15 - 195
2492981	Pyriproxyfen	65.6	63.5	P/P	31 - 218
2492981	Simazine	75.5	70.3	P/P	45 - 139
2492981	Stirophos	92.4	90.8	P/P	10 - 134
2492981	Tebuconazole	71.6	69.4	P/P	10 - 133
2492981	Terbufos	84.1	82.8	P/P	65 - 151
2492981	Terbutylazine	85.3	85.2	P/P	62 - 117
2492981	Tetradecachloro-m-terphenyl	132	131	P/P	10 - 260

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P446557

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492981	Thiobencarb	79.8	80.5	P/P	48 - 122
2492981	Tri-o-cresyl Phosphate	107	106	P/P	32 - 151
2492981	Triadimefon	85.8	84.2	P/P	46 - 124
2492981	Tris(1-chloro-2-propyl) phosphate (TCPP)	107	114	P/P	51 - 154
2492981	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	109	108	P/P	59 - 147
2492981	Tris(2-chloroethyl) phosphate (TCEP)	128	137	P/P	65 - 156

Reference Method: EPA 8276
Batch ID: P446326

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2494013	Chlordane	94.3	89.6	P/P	43 - 123
2494013	Toxaphene	68.4	65.6	P/P	27 - 156

Reference Method: EPA 8321B
Batch ID: P446270

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492714	Acesulfame K	123	126	P/P	40 - 150
2492714	AMPA	107	110	P/P	40 - 160
2492714	Endothall	133	136	P/P	40 - 160
2492714	Glufosinate	97.5	101	P/P	40 - 160
2492714	Glyphosate	103	101	P/P	40 - 160
2492714	Sucralose	89.6	93.1	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P446387

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492543	2,4-D	116	122	P/P	40 - 150
2492543	2,4,5-T	88.8	81.5	P/P	40 - 150
2492543	Acetaminophen	85.1	91.8	P/P	30 - 150
2492543	Acetamiprid	98.6	104	P/P	40 - 150
2492543	Afidopyropen	77.8	83.0	P/P	30 - 150
2492543	Bentazon	57.9	67.7	P/P	30 - 150
2492543	Benzovindiflupyr	77.9	84.9	P/P	40 - 150
2492543	Carbamazepine	88.2	84.8	P/P	40 - 150
2492543	Clothianidin	90.3	90.6	P/P	40 - 150
2492543	Dinotefuran	102	114	P/P	40 - 150
2492543	Diuron	69.1	83.0	P/P	40 - 150
2492543	Fenuron	80.5	84.8	P/P	40 - 150
2492543	Fluridone	83.5	81.7	P/P	40 - 150
2492543	Hydrocodone	103	115	P/P	40 - 150
2492543	Ibuprofen	58.2	71.4	P/P	40 - 150
2492543	Imazapyr	109	119	P/P	40 - 150
2492543	Imidacloprid	122	114	P/P	40 - 150
2492543	Linuron	80.6	75.6	P/P	40 - 150
2492543	Mandestrobin	87.1	92.5	P/P	40 - 150
2492543	MCPP	90.5	103	P/P	40 - 150
2492543	Naproxen	83.6	69.9	P/P	40 - 150
2492543	Primidone	107	86.0	P/P	40 - 150
2492543	Pyraclostrobin	91.1	95.7	P/P	40 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P446387

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492543	Silvex	86.9	81.4	P/P	40 - 150
2492543	Thiamethoxam	107	99.0	P/P	40 - 150
2492543	Tolfenpyrad	58.7	40.7	P/P	30 - 150
2492543	Triclopyr	77.8	72.6	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P446388

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492713	3-Hydroxycarbofuran	83.2	103	P/P	40 - 150
2492713	Aldicarb	71.4	76.5	P/P	30 - 150
2492713	Aldicarb Sulfone	113	111	P/P	40 - 150
2492713	Aldicarb Sulfoxide	40.5	47.9	P/P	40 - 150
2492713	Carbaryl	69.9	74.2	P/P	40 - 150
2492713	Carbofuran	57.5	65.6	P/P	40 - 150
2492713	Methiocarb	63.5	75.2	P/P	40 - 150
2492713	Methomyl	95.7	89.7	P/P	40 - 150
2492713	Oxamyl	102	100	P/P	40 - 150
2492713	Propoxur	72.2	70.5	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P446600

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492837	Fluoride	98.4	100	P/P	95 - 107

Reference Method: SM 4500-F- C-2011
Batch ID: P446602

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492910	Fluoride	99.1	102	P/P	95 - 107

Reference Method: SM 5310 B-2014
Batch ID: P446603

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492573	Organic Carbon	97.0	97.5	P/P	85 - 115

Reference Method: SM 5310 B-2014
Batch ID: P446605

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492999	Organic Carbon	98.7	101	P/P	85 - 115

Reference Method: SM 5310 B-2014
Batch ID: P446606

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492914	Organic Carbon	91.4	91.4	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P446346

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492956	Color (true)	2.60	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P446355

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492941	Turbidity	3.53	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P446590

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2493604	Calcium	2.30	Spike	P	0 - 20
2493604	Chromium	1.60	Spike	P	0 - 20
2493604	Iron	3.32	Spike	P	0 - 20
2493604	Magnesium	3.98	Spike	P	0 - 20
2493604	Potassium	0.760	Spike	P	0 - 20
2493604	Sodium	1.75	Spike	P	0 - 20
2493604	Strontium	0.242	Spike	P	0 - 20
2493604	Tin	1.63	Spike	P	0 - 20
2493604	Titanium	1.36	Spike	P	0 - 20
2493604	Vanadium	1.55	Spike	P	0 - 20
2493604	Zinc	1.13	Spike	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P446595

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492499	Calcium	1.08	Spike	P	0 - 20
2492499	Chromium	1.34	Spike	P	0 - 20
2492499	Iron	0.852	Spike	P	0 - 20
2492499	Magnesium	0.484	Spike	P	0 - 20
2492499	Potassium	1.10	Spike	P	0 - 20
2492499	Sodium	0.915	Spike	P	0 - 20
2492499	Strontium	0.506	Spike	P	0 - 20
2492499	Tin	0.0883	Spike	P	0 - 20
2492499	Titanium	0.657	Spike	P	0 - 20
2492499	Vanadium	0.110	Spike	P	0 - 20
2492499	Zinc	0.247	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P446590

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2493604	Aluminum	1.91	Spike	P	0 - 20
2493604	Antimony	0.250	Spike	P	0 - 20
2493604	Arsenic	0.584	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P446590

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2493604	Barium	0.901	Spike	P	0 - 20
2493604	Beryllium	1.33	Spike	P	0 - 20
2493604	Boron	0.728	Spike	P	0 - 20
2493604	Cadmium	0.544	Spike	P	0 - 20
2493604	Cobalt	0.521	Spike	P	0 - 20
2493604	Copper	0.513	Spike	P	0 - 20
2493604	Lead	0.584	Spike	P	0 - 20
2493604	Manganese	0.0207	Spike	P	0 - 20
2493604	Molybdenum	1.10	Spike	P	0 - 20
2493604	Nickel	0.575	Spike	P	0 - 20
2493604	Selenium	1.91	Spike	P	0 - 20
2493604	Thallium	1.09	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P446595

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492499	Aluminum	1.23	Spike	P	0 - 20
2492499	Antimony	0.676	Spike	P	0 - 20
2492499	Arsenic	0.277	Spike	P	0 - 20
2492499	Barium	1.12	Spike	P	0 - 20
2492499	Beryllium	0.350	Spike	P	0 - 20
2492499	Boron	0.0780	Spike	P	0 - 20
2492499	Cadmium	1.68	Spike	P	0 - 20
2492499	Cobalt	0.206	Spike	P	0 - 20
2492499	Copper	1.06	Spike	P	0 - 20
2492499	Lead	0.743	Spike	P	0 - 20
2492499	Manganese	0.466	Spike	P	0 - 20
2492499	Molybdenum	0.382	Spike	P	0 - 20
2492499	Nickel	0.104	Spike	P	0 - 20
2492499	Selenium	1.32	Spike	P	0 - 20
2492499	Thallium	0.927	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P446802

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2491146	Silver	0.664	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P446913

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2495037	Silver	0.278	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P446807

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492868	Chloride	3.39	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P446812

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492868	Sulfate	3.76	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446751

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492896	Ammonia-N	3.19	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446753

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492915	Ammonia-N	1.47	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446754

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492999	Ammonia-N	1.13	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446716

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2493215	Kjeldahl Nitrogen	4.30	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446717

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492836	Kjeldahl Nitrogen	1.34	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446476

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492897	NO2NO3-N	0.971	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446683

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2491742	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446573

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2493409	Total-P	0.821	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446845

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2494775	Total-P	0.0729	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P446326

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2493607	Aldrin	4.64	Spike	P	0 - 41
2493607	Alpha-BHC	0.435	Spike	P	0 - 25
2493607	Alpha-Chlordane	5.52	Spike	P	0 - 32
2493607	Beta-BHC	8.09	Spike	P	0 - 33
2493607	Beta-Cyfluthrin	14.7	Spike	P	0 - 43
2493607	Bifenthrin	10.7	Spike	P	0 - 52
2493607	Cis-Nonachlor	5.33	Spike	P	0 - 33
2493607	Cypermethrin	19.2	Spike	P	0 - 51
2493607	Dacthal	5.48	Spike	P	0 - 27
2493607	DDD-p,p'	3.70	Spike	P	0 - 39
2493607	DDE-p,p'	8.31	Spike	P	0 - 31
2493607	DDT-p,p'	5.70	Spike	P	0 - 29
2493607	Delta-BHC	3.52	Spike	P	0 - 35
2493607	Deltamethrin	17.8	Spike	P	0 - 100
2493607	Dichlobenil	10.8	Spike	P	0 - 40
2493607	Dicofol	8.16	Spike	P	0 - 37
2493607	Dieldrin	3.93	Spike	P	0 - 27
2493607	Endosulfan I	6.83	Spike	P	0 - 23
2493607	Endosulfan II	4.04	Spike	P	0 - 34
2493607	Endosulfan Sulfate	0.724	Spike	P	0 - 36
2493607	Endrin	21.1	Spike	P	0 - 45
2493607	Endrin Aldehyde	8.23	Spike	P	0 - 76
2493607	Endrin Ketone	8.70	Spike	P	0 - 43
2493607	Esfenvalerate	19.6	Spike	P	0 - 51
2493607	Ethalfuralin	1.16	Spike	P	0 - 22
2493607	Fenpropathrin	11.3	Spike	P	0 - 49
2493607	Gamma-BHC	2.57	Spike	P	0 - 28
2493607	Gamma-Chlordane	8.71	Spike	P	0 - 40
2493607	Heptachlor	1.34	Spike	P	0 - 29
2493607	Heptachlor Epoxide	8.43	Spike	P	0 - 33

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P446326

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2493607	Hexachlorobenzene	9.09	Spike	P	0 - 36
2493607	Kepone	6.96	Spike	P	0 - 85
2493607	Lambda-Cyhalothrin	5.85	Spike	P	0 - 55
2493607	Methoprene	11.3	Spike	P	0 - 53
2493607	Methoxychlor	4.18	Spike	P	0 - 50
2493607	MGK-264	7.86	Spike	P	0 - 43
2493607	Mirex	6.60	Spike	P	0 - 40
2493607	Oxychlorthane	6.72	Spike	P	0 - 31
2493607	Permethrin	15.0	Spike	P	0 - 50
2493607	Phenothrin	15.9	Spike	P	0 - 58
2493607	Piperonyl Butoxide	3.87	Spike	P	0 - 100
2493607	Prallethrin	5.17	Spike	P	0 - 39
2493607	Tau-Fluvalinate	16.5	Spike	P	0 - 54
2493607	Tetramethrin	7.91	Spike	P	0 - 51
2493607	Trans-Nonachlor	7.31	Spike	P	0 - 39
2493607	Triclosan Methyl	9.08	Spike	P	0 - 31
2493607	Trifluralin	8.90	Spike	P	0 - 22
2494013	PCB-1016	5.86	Spike	P	0 - 25
2494013	PCB-1260	1.29	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P446557

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492981	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	1.35	Spike	P	0 - 30
2492981	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	9.10	Spike	P	0 - 35
2492981	Acetochlor	2.82	Spike	P	0 - 28
2492981	Alachlor	16.6	Spike	P	0 - 30
2492981	Ametryn	31.0	Spike	P	0 - 32
2492981	Atrazine	1.17	Spike	P	0 - 33
2492981	Atrazine Desethyl	1.17	Spike	P	0 - 36
2492981	Avobenzene	7.66	Spike	P	0 - 35
2492981	Azinphos Methyl	3.91	Spike	P	0 - 62
2492981	Azoxystrobin	3.68	Spike	P	0 - 39
2492981	Bromacil	2.99	Spike	P	0 - 33
2492981	Butylate	5.94	Spike	P	0 - 51
2492981	Caffeine	7.00	Spike	P	0 - 100
2492981	Carbophenothion	4.19	Spike	P	0 - 34
2492981	Carfentrazone Ethyl	6.71	Spike	P	0 - 33
2492981	Chlorfenapyr	8.82	Spike	P	0 - 28
2492981	Chlorpyrifos Ethyl	11.3	Spike	P	0 - 31
2492981	Chlorpyrifos Methyl	1.33	Spike	P	0 - 27
2492981	Coumaphos	17.2	Spike	P	0 - 62
2492981	Cyanazine	8.45	Spike	P	0 - 48
2492981	Cyprodinil	8.08	Spike	P	0 - 29
2492981	Dechlorane 602	3.37	Spike	P	0 - 60
2492981	Dechlorane 603	20.4	Spike	P	0 - 40
2492981	Dechlorane Plus	3.55	Spike	P	0 - 38
2492981	Demeton	1.34	Spike	P	0 - 33
2492981	Diazinon	2.23	Spike	P	0 - 32

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P446557

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492981	Difenoconazole	38.8	Spike	P	0 - 71
2492981	Dimethenamid	2.44	Spike	P	0 - 60
2492981	Dimethomorph	30.4	Spike	P	0 - 61
2492981	Disulfoton	2.08	Spike	P	0 - 30
2492981	Dithiopyr	3.14	Spike	P	0 - 28
2492981	EPTC	5.01	Spike	P	0 - 56
2492981	Ethion	6.23	Spike	P	0 - 79
2492981	Ethoprop	2.54	Spike	P	0 - 31
2492981	Etridiazole	5.99	Spike	P	0 - 43
2492981	Fenamiphos	5.67	Spike	P	0 - 43
2492981	Fenbuconazole	4.70	Spike	P	0 - 79
2492981	Fipronil	3.03	Spike	P	0 - 46
2492981	Fipronil Desulfinyl	4.43	Spike	P	0 - 36
2492981	Fipronil Sulfide	2.26	Spike	P	0 - 34
2492981	Fipronil Sulfone	2.88	Spike	P	0 - 47
2492981	Fluazifop-P-butyl	4.92	Spike	P	0 - 38
2492981	Fludioxonil	11.9	Spike	P	0 - 29
2492981	Flumioxazin	57.5	Spike	P	0 - 63
2492981	Flutolanil	8.88	Spike	P	0 - 36
2492981	Fluxapyroxad	9.73	Spike	P	0 - 65
2492981	Fonofos	0.437	Spike	P	0 - 35
2492981	Hexabromobenzene	35.2	Spike	P	0 - 41
2492981	Hexazinone	1.19	Spike	P	0 - 31
2492981	Imazalil	38.0	Spike	P	0 - 52
2492981	Iprodione	10.4	Spike	P	0 - 49
2492981	Loratadine	18.4	Spike	P	0 - 59
2492981	Malathion	1.93	Spike	P	0 - 77
2492981	Metalaxyl	15.0	Spike	P	0 - 76
2492981	Metolachlor	4.76	Spike	P	0 - 29
2492981	Metribuzin	4.28	Spike	P	0 - 51
2492981	Mevinphos	0.911	Spike	P	0 - 31
2492981	Molinate	2.23	Spike	P	0 - 39
2492981	Myclobutanil	8.29	Spike	P	0 - 34
2492981	Naled	1.21	Spike	P	0 - 37
2492981	Napropamide	8.63	Spike	P	0 - 100
2492981	Norflurazon	15.5	Spike	P	0 - 54
2492981	Octinoxate	3.54	Spike	P	0 - 35
2492981	Oxadiazon	0.923	Spike	P	0 - 34
2492981	Oxybenzone	4.36	Spike	P	0 - 35
2492981	Oxyfluorfen	3.60	Spike	P	0 - 28
2492981	Parathion Ethyl	2.86	Spike	P	0 - 31
2492981	Parathion Methyl	0.212	Spike	P	0 - 29
2492981	PBB-153	4.62	Spike	P	0 - 49
2492981	PBDE-47	9.49	Spike	P	0 - 36
2492981	PBDE-99	4.04	Spike	P	0 - 46
2492981	Pendimethalin	1.90	Spike	P	0 - 31
2492981	Pentabromotoluene	9.47	Spike	P	0 - 16
2492981	Phenytoin	12.8	Spike	P	0 - 100
2492981	Phorate	1.56	Spike	P	0 - 36
2492981	Prodiamine	61.8	Spike	P	0 - 68
2492981	Prometon	5.66	Spike	P	0 - 35

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P446557

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492981	Prometryn	1.63	Spike	P	0 - 33
2492981	Pronamide	0.673	Spike	P	0 - 24
2492981	Propanil	4.86	Spike	P	0 - 28
2492981	Propargite	8.89	Spike	P	0 - 53
2492981	Propiconazole	0.991	Spike	P	0 - 44
2492981	Pyraflufen Ethyl	16.4	Spike	P	0 - 61
2492981	Pyridaben	26.3	Spike	P	0 - 43
2492981	Pyriproxyfen	3.35	Spike	P	0 - 82
2492981	Simazine	7.08	Spike	P	0 - 29
2492981	Stiropfos	1.74	Spike	P	0 - 100
2492981	Sulfentrazone	6.72	Spike	P	0 - 64
2492981	Tebuconazole	3.17	Spike	P	0 - 76
2492981	Terbufos	1.57	Spike	P	0 - 29
2492981	Terbuthylazine	0.0825	Spike	P	0 - 28
2492981	Tetradecachloro-m-terphenyl	1.07	Spike	P	0 - 42
2492981	Thiobencarb	0.811	Spike	P	0 - 26
2492981	Tri-o-cresyl Phosphate	1.27	Spike	P	0 - 24
2492981	Triadimefon	1.88	Spike	P	0 - 40
2492981	Tris(1-chloro-2-propyl) phosphate (TCPP)	5.31	Spike	P	0 - 30
2492981	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	1.04	Spike	P	0 - 22
2492981	Tris(2-chloroethyl) phosphate (TCEP)	6.91	Spike	P	0 - 15

Reference Method: EPA 8276
Batch ID: P446326

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2494013	Chlordane	5.06	Spike	P	0 - 28
2494013	Toxaphene	4.19	Spike	P	0 - 27

Reference Method: EPA 8321B
Batch ID: P446270

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492714	Acesulfame K	2.73	Spike	P	0 - 30
2492714	AMPA	2.72	Spike	P	0 - 30
2492714	Endothall	2.34	Spike	P	0 - 30
2492714	Glufosinate	3.94	Spike	P	0 - 30
2492714	Glyphosate	1.55	Spike	P	0 - 30
2492714	Sucralose	3.84	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P446387

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492543	2,4-D	4.20	Spike	P	0 - 30
2492543	2,4,5-T	8.50	Spike	P	0 - 30
2492543	Acetaminophen	7.52	Spike	P	0 - 30
2492543	Acetamiprid	5.20	Spike	P	0 - 30

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Reference Method: EPA 8321B
Batch ID: P446387

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492543	Afidopyropen	6.47	Spike	P	0 - 30
2492543	Bentazon	11.0	Spike	P	0 - 30
2492543	Benzovindiflupyr	8.66	Spike	P	0 - 30
2492543	Carbamazepine	3.88	Spike	P	0 - 30
2492543	Clothianidin	0.382	Spike	P	0 - 30
2492543	Dinotefuran	11.6	Spike	P	0 - 30
2492543	Diuron	18.4	Spike	P	0 - 30
2492543	Fenuron	5.19	Spike	P	0 - 30
2492543	Fluridone	2.08	Spike	P	0 - 30
2492543	Hydrocodone	10.8	Spike	P	0 - 30
2492543	Ibuprofen	20.3	Spike	P	0 - 30
2492543	Imazapyr	7.36	Spike	P	0 - 30
2492543	Imidacloprid	6.62	Spike	P	0 - 30
2492543	Linuron	6.42	Spike	P	0 - 30
2492543	Mandestrobin	5.97	Spike	P	0 - 30
2492543	MCCP	13.4	Spike	P	0 - 30
2492543	Naproxen	17.8	Spike	P	0 - 30
2492543	Primidone	19.1	Spike	P	0 - 30
2492543	Pyraclostrobin	4.96	Spike	P	0 - 30
2492543	Silvex	6.53	Spike	P	0 - 30
2492543	Thiamethoxam	7.84	Spike	P	0 - 30
2492543	Tolfenpyrad	36.2	Spike	F	0 - 30
2492543	Triclopyr	6.96	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P446388

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492713	3-Hydroxycarbofuran	21.2	Spike	P	0 - 30
2492713	Aldicarb	6.84	Spike	P	0 - 30
2492713	Aldicarb Sulfone	1.94	Spike	P	0 - 30
2492713	Aldicarb Sulfoxide	16.8	Spike	P	0 - 30
2492713	Carbaryl	6.08	Spike	P	0 - 30
2492713	Carbofuran	13.1	Spike	P	0 - 30
2492713	Methiocarb	16.9	Spike	P	0 - 30
2492713	Methomyl	6.48	Spike	P	0 - 30
2492713	Oxamyl	1.38	Spike	P	0 - 30
2492713	Propoxur	2.42	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P446597

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492837	Total Alkalinity	2.37	Sample	P	0 - 4.1

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Reference Method: SM 2320 B-2011
Batch ID: P446607

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492910	Total Alkalinity	0.738	Sample	P	0 - 4.1

Reference Method: SM 2540 C-2015
Batch ID: P446677

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492635	TDS	4.82	Sample	P	0 - 10

Reference Method: SM 2540 C-2015
Batch ID: P446678

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492954	TDS	7.58	Sample	P	0 - 10

Reference Method: SM 2540 D-2015
Batch ID: P446671

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492994	TSS	7.59	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P446600

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492837	Fluoride	1.48	Spike	P	0 - 1.7

Reference Method: SM 4500-F- C-2011
Batch ID: P446602

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492910	Fluoride	1.93	Spike	F	0 - 1.7

Reference Method: SM 5310 B-2014
Batch ID: P446603

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492573	Organic Carbon	0.582	Spike	P	0 - 15

Reference Method: SM 5310 B-2014
Batch ID: P446605

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492999	Organic Carbon	1.93	Spike	P	0 - 15

Quality Assurance Report
Precision

Reference Method: SM 5310 B-2014
Batch ID: P446606

Replicated					
Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492914	Organic Carbon	0.0494	Spike	P	0 - 15

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

Quality Assurance Report

Surrogates

Lab Sample ID: 2492974

Field Sample ID: G3SE0019

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	50.6	P	30 - 160

Lab Sample ID: 2492975

Field Sample ID: G3SE0019

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	127	P	30 - 160
EPA 8321B	Acetaminophen-d4	86.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	61.4	P	30 - 160
EPA 8321B	Diuron-d6	53.6	P	30 - 160
EPA 8321B	Endothall-d6	125	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	112	P	30 - 160
EPA 8321B	Ibuprofen-d3	63.3	P	30 - 160
EPA 8321B	Primidone-d5	64.8	P	30 - 160
EPA 8321B	Sucralose-d6	94.7	P	30 - 160

Lab Sample ID: 2492980

Field Sample ID: G3SE0019

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	109	P	37 - 129
EPA 8270E	Decachlorobiphenyl	80.7	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	63.8	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	48.2	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	54.7	P	23 - 110
EPA 8276	PCNB	69.6	P	51 - 130

Lab Sample ID: 2492981

Field Sample ID: G3SE0019

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	54.1	P	20 - 200
EPA 8270E	Simazine-d10	89.6	P	58 - 137
EPA 8270E	Terbufos-d10	84.1	P	50 - 134
EPA 8270E	Terphenyl-d14	98.5	P	44 - 134

Lab Sample ID: 2492982

Field Sample ID: G4SE0147

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	102	P	37 - 129
EPA 8270E	Decachlorobiphenyl	70.1	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	68.8	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	50.5	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	49.2	P	23 - 110
EPA 8276	PCNB	72.6	P	51 - 130

Quality Assurance Report
Calibration Verification

Reference Method: DEP SOP: NU-094-1
Run ID: A126094
Included Lab Sample IDs: 2492954, 2492956, 2492960

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.7	99.1	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1
Run ID: A126096
Included Lab Sample IDs: 2492958

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.3	98.5	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A126098
Included Lab Sample IDs: 2492954, 2492956, 2492958, 2492960

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

Reference Method: EPA 8321B
Run ID: A126126
Included Lab Sample IDs: 2492975

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	107	113	P/P	60 - 160
Endothall	122	117	P/P	60 - 160
Glufosinate	104	106	P/P	60 - 160
Glyphosate	109	106	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A126128
Included Lab Sample IDs: 2492975

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	107	121	P/P	60 - 160
Sucralose	102	107	P/P	60 - 160

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A126144
Included Lab Sample IDs: 2492955, 2492957, 2492961

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

Reference Method: EPA 8321B
Run ID: A126178
Included Lab Sample IDs: 2492975

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	91.8	84.9	P/P	50 - 150
2,4,5-T	89.5	75.7	P/P	50 - 150
3-Hydroxycarbofuran	100	88.3	P/P	60 - 150
Acetaminophen	92.3	67.4	P/P	60 - 160
Acetamiprid	107	111	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A126178
Included Lab Sample IDs: 2492975

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Afidopyropen	104	91.4	P/P	50 - 150
Aldicarb	110	113	P/P	60 - 150
Aldicarb Sulfone	102	106	P/P	50 - 150
Aldicarb Sulfoxide	110	103	P/P	50 - 150
Bentazon	93.0	102	P/P	50 - 160
Benzovindiflupyr	102	107	P/P	50 - 150
Carbamazepine	120	79.8	P/P	60 - 150
Carbaryl	92.3	92.2	P/P	60 - 150
Carbofuran	94.3	107	P/P	50 - 150
Clothianidin	91.0	74.7	P/P	60 - 150
Dinotefuran	96.3	79.6	P/P	50 - 150
Diuron	119	98.0	P/P	60 - 160
Fenuron	103	89.6	P/P	60 - 150
Fluridone	108	115	P/P	60 - 160
Hydrocodone	110	104	P/P	60 - 150
Ibuprofen	96.7	67.9	P/P	50 - 160
Imazapyr	87.9	85.9	P/P	50 - 150
Imidacloprid	91.6	97.1	P/P	60 - 150
Linuron	91.6	87.2	P/P	60 - 150
Mandestrobin	113	117	P/P	50 - 150
MCPP	94.0	93.1	P/P	50 - 150
Methiocarb	94.5	82.8	P/P	50 - 150
Methomyl	109	112	P/P	50 - 150
Naproxen	73.8	136	P/P	50 - 160
Oxamyl	111	110	P/P	50 - 150
Primidone	107	77.6	P/P	60 - 150
Propoxur	127	110	P/P	50 - 150
Pyraclostrobin	116	127	P/P	60 - 150
Silvex	79.7	77.6	P/P	50 - 150
Thiamethoxam	94.6	83.8	P/P	50 - 150
Tolfenpyrad	85.0	82.8	P/P	60 - 150
Triclopyr	80.5	80.8	P/P	50 - 150

Reference Method: SM 2320 B-2011
Run ID: A126180
Included Lab Sample IDs: 2492954, 2492956, 2492958, 2492960

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.6	99.6	P/P	90 - 110
Total Alkalinity	98.7	100	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A126180
Included Lab Sample IDs: 2492954, 2492956, 2492958, 2492960

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	99.0	P/P	90 - 110
Fluoride	98.0	99.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2014

Run ID: A126183

Included Lab Sample IDs: 2492955, 2492957, 2492959, 2492961

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	103	98.4	P/P	70 - 130
Organic Carbon	106	99.0	P/P	70 - 130
Organic Carbon	95.3	103	P/P	85 - 115

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A126202

Included Lab Sample IDs: 2492957

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A126216

Included Lab Sample IDs: 2492955, 2492961

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.0	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A126218

Included Lab Sample IDs: 2492959

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A126219

Included Lab Sample IDs: 2492986

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	98.5	P/P	90 - 110
Chromium	102	98.4	P/P	90 - 110
Iron	100	98.1	P/P	90 - 110
Magnesium	100	98.1	P/P	90 - 110
Potassium	101	98.6	P/P	90 - 110
Sodium	99.7	97.6	P/P	90 - 110
Strontium	101	99.4	P/P	90 - 110
Tin	104	101	P/P	90 - 110
Titanium	100	96.9	P/P	90 - 110
Vanadium	99.3	98.5	P/P	90 - 110
Zinc	103	99.3	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A126222

Included Lab Sample IDs: 2492985

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	103	102	P/P	90 - 110
Chromium	103	102	P/P	90 - 110
Iron	104	103	P/P	90 - 110
Magnesium	104	103	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A126222

Included Lab Sample IDs: 2492985

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Potassium	103	99.4	P/P	90 - 110
Sodium	101	99.0	P/P	90 - 110
Strontium	102	101	P/P	90 - 110
Tin	104	104	P/P	90 - 110
Titanium	102	101	P/P	90 - 110
Vanadium	101	99.3	P/P	90 - 110
Zinc	103	101	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A126228

Included Lab Sample IDs: 2492985, 2492986

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	101	100	P/P	90 - 110
Aluminum	99.5	101	P/P	90 - 110
Antimony	98.2	98.5	P/P	90 - 110
Antimony	98.5	97.1	P/P	90 - 110
Arsenic	101	102	P/P	90 - 110
Arsenic	102	100	P/P	90 - 110
Barium	100	99.8	P/P	90 - 110
Barium	99.8	99.2	P/P	90 - 110
Beryllium	97.6	97.7	P/P	90 - 110
Boron	102	102	P/P	90 - 110
Cadmium	102	103	P/P	90 - 110
Cadmium	103	102	P/P	90 - 110
Cobalt	106	107	P/P	90 - 110
Cobalt	107	105	P/P	90 - 110
Copper	102	103	P/P	90 - 110
Copper	103	99.9	P/P	90 - 110
Lead	108	107	P/P	90 - 110
Lead	108	108	P/P	90 - 110
Manganese	100	99.6	P/P	90 - 110
Manganese	101	100	P/P	90 - 110
Molybdenum	101	99.9	P/P	90 - 110
Molybdenum	101	101	P/P	90 - 110
Nickel	102	103	P/P	90 - 110
Nickel	103	101	P/P	90 - 110
Selenium	100	100	P/P	90 - 110
Selenium	100	98.2	P/P	90 - 110
Thallium	99.2	99.1	P/P	90 - 110
Thallium	99.3	99.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A126238

Included Lab Sample IDs: 2492955, 2492957, 2492959, 2492961

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.3	97.5	P/P	90 - 110
Ammonia-N	97.5	97.6	P/P	90 - 110
Ammonia-N	97.8	97.9	P/P	90 - 110
Ammonia-N	99.0	98.0	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A126257

Included Lab Sample IDs: 2492985, 2492986

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beryllium	108	108	P/P	90 - 110
Boron	102	105	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A126266

Included Lab Sample IDs: 2492954, 2492956, 2492958, 2492960

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	95.1	97.8	P/P	90 - 110
Sulfate	95.9	98.6	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A126284

Included Lab Sample IDs: 2492981

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	95.3		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	102		P	80 - 120
Avobenzone	106		P	80 - 120
Dechlorane 602	105		P	80 - 120
Dechlorane 603	107		P	80 - 120
Dechlorane Plus	111		P	80 - 120
Hexabromobenzene	100		P	80 - 120
Octinoxate	100		P	80 - 120
Oxybenzone	100		P	80 - 120
PBB-153	101		P	80 - 120
PBDE-47	101		P	80 - 120
PBDE-99	103		P	80 - 120
Pentabromotoluene	96.5		P	80 - 120
Tetradecachloro-m-terphenyl	111		P	80 - 120
Tri-o-cresyl Phosphate	101		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	99.3		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	100		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	99.7		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A126285

Included Lab Sample IDs: 2492986

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Silver	97.0	98.2	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A126310

Included Lab Sample IDs: 2492980, 2492982

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A126313

Included Lab Sample IDs: 2492955, 2492957, 2492959, 2492961

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	98.9	P/P	90 - 110
Kjeldahl Nitrogen	97.1	97.6	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A126314

Included Lab Sample IDs: 2492980, 2492982

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	100		P	80 - 120
Alpha-BHC	102		P	80 - 120
Alpha-Chlordane	97.5		P	80 - 120
Beta-BHC	104		P	80 - 120
Beta-Cyfluthrin	109		P	80 - 120
Bifenthrin	102		P	80 - 120
Chlorothalonil	118		P	80 - 120
Cis-Nonachlor	96.9		P	80 - 120
Cypermethrin	104		P	80 - 120
Dacthal	102		P	80 - 120
DDD-p,p'	97.4		P	80 - 120
DDE-p,p'	102		P	80 - 120
DDT-p,p'	93.8		P	80 - 120
Delta-BHC	113		P	80 - 120
Deltamethrin	115		P	80 - 120
Dichlobenil	103		P	80 - 120
Dicofol	96.2		P	80 - 120
Dieldrin	97.7		P	80 - 120
Endosulfan I	106		P	80 - 120
Endosulfan II	94.6		P	80 - 120
Endosulfan Sulfate	97.8		P	80 - 120
Endrin	102		P	80 - 120
Endrin Aldehyde	101		P	80 - 120
Endrin Ketone	98.9		P	80 - 120
Esfenvalerate	113		P	80 - 120
Ethalfuralin	101		P	80 - 120
Fenpropathrin	98.7		P	80 - 120
Gamma-BHC	104		P	80 - 120
Gamma-Chlordane	102		P	80 - 120
Heptachlor	101		P	80 - 120
Heptachlor Epoxide	101		P	80 - 120
Hexachlorobenzene	99.8		P	80 - 120
Kepone	104		P	80 - 120
Lambda-Cyhalothrin	103		P	80 - 120
Methoprene	104		P	80 - 120
Methoxychlor	101		P	80 - 120
MGK-264	101		P	80 - 120
Mirex	100		P	80 - 120
Oxychlordane	98.6		P	80 - 120
Permethrin	101		P	80 - 120
Phenothrin	98.8		P	80 - 120
Piperonyl Butoxide	96.1		P	80 - 120
Prallethrin	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A126314

Included Lab Sample IDs: 2492980, 2492982

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tau-Fluvalinate	108		P	80 - 120
Tetramethrin	103		P	80 - 120
Trans-Nonachlor	101		P	80 - 120
Triclosan Methyl	101		P	80 - 120
Trifluralin	100		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A126329

Included Lab Sample IDs: 2492985

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Silver	94.9	95.7	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A126335

Included Lab Sample IDs: 2492980, 2492982

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	99.1		P	80 - 120
PCB-1260	97.7		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A126390

Included Lab Sample IDs: 2492959

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	99.8	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A126445

Included Lab Sample IDs: 2492981

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	82.8		P	80 - 120
Alachlor	87.9		P	80 - 120
Ametryn	96.4		P	80 - 120
Atrazine	91.9		P	80 - 120
Atrazine Desethyl	93.6		P	80 - 120
Azinphos Methyl	95.4		P	80 - 120
Azoxystrobin	97.8		P	80 - 120
Bromacil	101		P	80 - 120
Butylate	95.7		P	80 - 120
Caffeine	95.3		P	80 - 120
Carbophenothion	91.8		P	80 - 120
Carfentrazone Ethyl	93.9		P	80 - 120
Chlorfenapyr	75.5*		F	80 - 120
Chlorpyrifos Ethyl	82.1		P	80 - 120
Chlorpyrifos Methyl	94.2		P	80 - 120
Coumaphos	88.8		P	80 - 120
Cyanazine	101		P	80 - 120
Cyprodinil	97.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A126445
Included Lab Sample IDs: 2492981

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Demeton	93.8		P	80 - 120
Diazinon	97.7		P	80 - 120
Difenoconazole	95.7		P	80 - 120
Dimethenamid	103		P	80 - 120
Dimethomorph	81.7		P	80 - 120
Disulfoton	94.1		P	80 - 120
Dithiopyr	98.6		P	80 - 120
EPTC	96.3		P	80 - 120
Ethion	80.7		P	80 - 120
Ethoprop	95.3		P	80 - 120
Etridiazole	96.2		P	80 - 120
Fenamiphos	86.4		P	80 - 120
Fenbuconazole	91.7		P	80 - 120
Fipronil	87.7		P	80 - 120
Fipronil Desulfinyl	97.3		P	80 - 120
Fipronil Sulfide	103		P	80 - 120
Fipronil Sulfone	102		P	80 - 120
Fluazifop-P-butyl	97.2		P	80 - 120
Fludioxonil	94.6		P	80 - 120
Flumioxazin	91.7		P	80 - 120
Flutolanil	101		P	80 - 120
Fluxapyroxad	104		P	80 - 120
Fonofos	98.0		P	80 - 120
Hexazinone	97.6		P	80 - 120
Imazalil	97.6		P	80 - 120
Iprodione	82.7		P	80 - 120
Loratadine	81.0		P	80 - 120
Malathion	81.3		P	80 - 120
Metaxyl	92.6		P	80 - 120
Metolachlor	97.9		P	80 - 120
Metribuzin	96.1		P	80 - 120
Mevinphos	94.9		P	80 - 120
Molinate	97.9		P	80 - 120
Myclobutanil	97.8		P	80 - 120
Naled	101		P	80 - 120
Napropamide	99.6		P	80 - 120
Norflurazon	96.2		P	80 - 120
Oxadiazon	97.3		P	80 - 120
Oxyfluorfen	88.5		P	80 - 120
Parathion Ethyl	96.7		P	80 - 120
Parathion Methyl	72.1*		F	80 - 120
Pendimethalin	87.1		P	80 - 120
Phenytoin	103		P	80 - 120
Phorate	95.1		P	80 - 120
Prodiamine	83.4		P	80 - 120
Prometon	96.7		P	80 - 120
Prometryn	102		P	80 - 120
Pronamide	99.5		P	80 - 120
Propanil	92.4		P	80 - 120
Propargite	97.0		P	80 - 120
Propiconazole	84.9		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A126445
Included Lab Sample IDs: 2492981

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraflufen Ethyl	99.6		P	80 - 120
Pyridaben	88.1		P	80 - 120
Pyriproxyfen	103		P	80 - 120
Simazine	92.2		P	80 - 120
Stirophos	81.5		P	80 - 120
Sulfentrazone	97.6		P	80 - 120
Tebuconazole	102		P	80 - 120
Terbufos	95.5		P	80 - 120
Terbuthylazine	97.7		P	80 - 120
Thiobencarb	101		P	80 - 120
Triadimefon	96.6		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision SMP	MS
			LCS				
DEP SOP: NU-094-1	Color (true)	97.7				2.60	
EPA 180.1 Rev. 2.0	Turbidity	100				3.53	
EPA 200.7 Rev. 4.4	Calcium	98.4	101				2.30
	Calcium	104	105	99.9			1.08
	Chromium	98.7	96.6	98.2			1.60
	Chromium	101	99.3	98.0	98.8		1.34
	Iron	103	102	105			3.32
	Iron	112	112	111	108		0.852
	Magnesium	98.3					3.98
	Magnesium	105	106	106			0.484
	Potassium	95.6					0.760
	Potassium	99.8	102	96.9			1.10
	Sodium	97.7					1.75
	Sodium	101	102	99.2			0.915
	Strontium	102	96.7	97.0			0.242
	Strontium	99.9	98.1	98.6	95.1		0.506
	Tin	99.8	100	102			1.63
	Tin	99.6	97.5	97.6	94.8		0.0883
	Titanium	98.4	102	104			1.36
	Titanium	101	100	99.4	98.4		0.657
	Vanadium	101	104	106			1.55
	Vanadium	100	101	101	100		0.110
	Zinc	98.1	105	107			1.13
	Zinc	99.5	98.7	98.9	98.1		0.247
EPA 200.8 Rev. 5.4	Aluminum	103	103	101			1.91
	Aluminum	101	103	102	101		1.23
	Antimony	107	112	111			0.250
	Antimony	107	108	109	109		0.676
	Arsenic	103	110	110			0.584
	Arsenic	103	105	105	105		0.277
	Barium	104	104	105			0.901
	Barium	104	103	104	104		1.12
	Beryllium	103	103	102			1.33
	Beryllium	111	115	115	115		0.350
	Boron	109					0.728
	Boron	107	108	108	107		0.0780
	Cadmium	103	101	102			0.544
	Cadmium	104	101	103	101		1.68
	Cobalt	109	109	109			0.521
	Cobalt	109	108	108	107		0.206
	Copper	103	109	109			0.513
	Copper	104	104	105	101		1.06
	Lead	111	114	115			0.584
	Lead	110	111	112	112		0.743
	Manganese	105	103	103			0.0207
	Manganese	104	104	105	104		0.466
	Molybdenum	104	109	110			1.10
	Molybdenum	102	105	105	104		0.382
	Nickel	104	105	104			0.575
	Nickel	103	103	103	103		0.104
	Selenium	103	106	104			1.91
	Selenium	104	102	100	102		1.32
	Silver	106	99.2	98.5			0.664
	Silver	106	104	104	104		0.278

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision SMP	MS
			LCS				
EPA 200.8 Rev. 5.4	Thallium	106	106	107	107		1.09
	Thallium	103	107	108			0.927
EPA 300.0 Rev. 2.1	Chloride	102	101	92.4		3.39	
	Sulfate	104	102	105		3.76	
EPA 350.1 Rev. 2.0	Ammonia-N	97.2	91.6	95.4			3.19
	Ammonia-N	95.8	93.6	95.2			1.47
	Ammonia-N	96.2	95.0	96.2			1.13
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	95.4	93.0	97.7			4.30
	Kjeldahl Nitrogen	94.8	107	105			1.34
EPA 353.2 Rev. 2.0	NO2NO3-N	99.0	96.0	97.0			0.971
	NO2NO3-N	99.0	91.9	91.9			0.0
EPA 365.1 Rev. 2.0	Total-P	101	103	104			0.821
	Total-P	104	96.0	96.1			0.0729
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntyphenol (UV-328)	83.7	70.7	69.8			1.35
	2-Ethylhexyl	118	73.8	80.8			9.10
	2,3,4,5-tetrabromobenzoate (EHTBB)						
	Acetochlor	71.5	68.8	66.9			2.82
	Alachlor	69.2	61.0	51.7			16.6
	Aldrin	56.3	58.5	61.3			4.64
	Alpha-BHC	85.0	83.1	83.4			0.435
	Alpha-Chlordane	65.0	63.1	66.7			5.52
	Ametryn	69.2	59.1	80.8			31.0
	Atrazine	75.4	70.1	68.7			1.17
	Atrazine Desethyl	64.4	68.5	69.3			1.17
	Avobenzone	147	151	163			7.66
	Azinphos Methyl	111	95.0	91.4			3.91
	Azoxystrobin	83.5	89.1	85.9			3.68
	Beta-BHC	107	116	126			8.09
	Beta-Cyfluthrin	86.1	104	121			14.7
	Bifenthrin	58.4	67.8	75.5			10.7
	Bromacil	83.9	80.7	78.4			2.99
	Butylate	52.2	49.4	52.4			5.94
	Caffeine	96.2	116	126			7.00
	Carbophenothion	88.6	80.3	77.0			4.19
	Carfentrazone Ethyl	86.2	80.0	74.8			6.71
	Chlorfenapyr	87.1	84.7	77.6			8.82
	Chlorothalonil	104	3.71	1.62			
	Chlorpyrifos Ethyl	75.6	74.7	83.6			11.3
	Chlorpyrifos Methyl	88.4	87.0	85.8			1.33
	Cis-Nonachlor	66.7	62.8	66.3			5.33
	Coumaphos	143	132	111			17.2
	Cyanazine	126	139	128			8.45
	Cypermethrin	76.4	90.8	110			19.2
	Cyprodinil	81.7	80.2	73.9			8.08
	Dacthal	90.3	84.3	89.1			5.48
	DDD-p,p'	72.1	64.3	66.8			3.70
	DDE-p,p'	75.6	70.4	76.5			8.31
	DDT-p,p'	62.5	58.8	62.3			5.70
	Dechlorane 602	92.1	65.2	67.5			3.37
	Dechlorane 603	117	90.9	74.0			20.4
	Dechlorane Plus	122	91.4	88.2			3.55
	Delta-BHC	112	132	137			3.52

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Deltamethrin	102	130	156			17.8
	Demeton	68.5	75.0	74.0			1.34
	Diazinon	80.5	84.9	83.0			2.23
	Dichlobenil	74.1	30.8	27.6			10.8
	Dicofol	59.3	58.0	62.9			8.16
	Dieldrin	69.6	66.9	69.6			3.93
	Difenoconazole	139	131	88.5			38.8
	Dimethenamid	79.3	77.1	75.3			2.44
	Dimethomorph	118	195	144			30.4
	Disulfoton	64.9	76.1	74.6			2.08
	Dithiopyr	75.6	76.7	74.3			3.14
	Endosulfan I	85.0	83.3	89.2			6.83
	Endosulfan II	72.6	65.9	68.6			4.04
	Endosulfan Sulfate	91.2	77.0	76.5			0.724
	Endrin	81.2	61.7	76.2			21.1
	Endrin Aldehyde	71.7	40.6	44.1			8.23
	Endrin Ketone	87.2	91.4	83.8			8.70
	EPTC	47.6	41.6	43.8			5.01
	Esfenvalerate	85.6	112	136			19.6
	Ethalfuralin	55.9	67.8	67.0			1.16
	Ethion	81.4	76.7	72.1			6.23
	Ethoprop	75.2	78.8	76.8			2.54
	Etridiazole	59.2	54.2	57.6			5.99
	Fenamiphos	72.4	64.3	60.7			5.67
	Fenbuconazole	37.9	45.5	47.7			4.70
	Fenpropathrin	65.2	66.5	74.4			11.3
	Fipronil	69.9	69.2	67.0			3.03
	Fipronil Desulfinyl	81.0	81.0	76.3			4.43
	Fipronil Sulfide	79.5	73.6	71.3			2.26
	Fipronil Sulfone	80.6	74.1	70.6			2.88
	Fluazifop-P-butyl	86.4	87.4	83.2			4.92
	Fludioxonil	82.0	80.5	71.5			11.9
	Flumioxazin	167	150	82.9			57.5
	Flutolanil	89.1	136	125			8.88
	Fluxapyroxad	82.9	73.3	65.0			9.73
	Fonofos	71.2	73.8	73.5			0.437
	Gamma-BHC	86.3	82.3	80.2			2.57
	Gamma-Chlordane	72.4	72.1	78.6			8.71
	Heptachlor	57.1	54.0	54.7			1.34
	Heptachlor Epoxide	78.3	76.2	82.9			8.43
	Hexabromobenzene	90.2	62.2	88.7			35.2
	Hexachlorobenzene	65.3	52.0	56.9			9.09
	Hexazinone	82.5	87.6	88.9			1.19
	Imazalil	66.1	77.4	114			38.0
	Iprodione	77.2	66.8	60.2			10.4
	Kepone	142					6.96
	Lambda-Cyhalothrin	61.9	78.7	83.4			5.85
	Loratadine	126	179	149			18.4
	Malathion	83.0	84.1	82.5			1.93
	Metalaxyl	70.2	74.7	62.7			15.0
	Methoprene	64.8	70.2	78.6			11.3
	Methoxychlor	75.4	75.2	78.4			4.18
	Metolachlor	86.3	90.3	86.2			4.76
	Metribuzin	83.8	81.7	77.9			4.28

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Mevinphos	77.3	75.0	75.7		0.911
	MGK-264	86.5	86.0	93.1		7.86
	Mirex	56.1	59.5	63.6		6.60
	Molinate	61.6	59.3	60.6		2.23
	Myclobutanil	80.9	88.9	81.8		8.29
	Naled	59.9	50.7	50.1		1.21
	Napropamide	80.7	75.5	69.3		8.63
	Norflurazon	84.5	71.8	61.5		15.5
	Octinoxate	101	102	106		3.54
	Oxadiazon	74.8				0.923
	Oxybenzone	103	106	110		4.36
	Oxychlordane	67.0	67.8	72.5		6.72
	Oxyfluorfen	109	111	107		3.60
	Parathion Ethyl	84.2	83.2	85.6		2.86
	Parathion Methyl	112	135	135		0.212
	PBB-153	119	71.4	74.8		4.62
	PBDE-47	103	92.4	102		9.49
	PBDE-99	103	68.6	71.4		4.04
	PCB-1016	74.7	75.1	70.8		5.86
	PCB-1260	79.9	82.6	83.7		1.29
	Pendimethalin	119	154	157		1.90
	Pentabromotoluene	94.4	85.6	94.1		9.47
	Permethrin	70.0	78.6	91.3		15.0
	Phenothrin	52.4	68.2	80.0		15.9
	Phenytol	58.2	49.2	43.3		12.8
	Phorate	68.1	75.9	74.8		1.56
	Piperonyl Butoxide	78.4	72.5	75.4		3.87
	Prallethrin	73.1	78.4	74.5		5.17
	Prodiamine	91.2	98.9	52.2		61.8
	Prometon	80.3	78.3	73.9		5.66
	Prometryn	76.8	77.2	76.0		1.63
	Pronamide	80.6	86.5	85.9		0.673
	Propanil	81.0	77.4	73.7		4.86
	Propargite	104	88.8	97.0		8.89
	Propiconazole	69.5	66.5	65.8		0.991
	Pyraflufen Ethyl	88.9	84.3	71.5		16.4
	Pyridaben	113	111	84.8		26.3
	Pyriproxyfen	76.2	65.6	63.5		3.35
	Simazine	75.9	75.5	70.3		7.08
	Stirophos	90.8	92.4	90.8		1.74
	Sulfentrazone	82.2				6.72
	Tau-Fluvalinate	68.9	96.7	114		16.5
	Tebuconazole	72.7	71.6	69.4		3.17
	Terbufos	78.3	84.1	82.8		1.57
	Terbuthylazine	83.0	85.3	85.2		0.0825
	Tetradecachloro-m-terphenyl	115	132	131		1.07
	Tetramethrin	80.1	86.3	93.4		7.91
	Thiobencarb	86.7	79.8	80.5		0.811
	Trans-Nonachlor	72.3	72.8	78.3		7.31
	Tri-o-cresyl Phosphate	115	107	106		1.27
	Triadimefon	82.9	85.8	84.2		1.88
	Triclosan Methyl	84.5	78.5	86.0		9.08
	Trifluralin	71.7	67.8	74.1		8.90

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Tris(1-chloro-2-propyl) phosphate (TCPP)	114	107	114			5.31
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	115	109	108			1.04
	Tris(2-chloroethyl) phosphate (TCEP)	128	128	137			6.91
EPA 8276	Chlordane	79.5	94.3	89.6			5.06
	Toxaphene	61.2	68.4	65.6			4.19
EPA 8321B	2,4-D	90.9	116	122			4.20
	2,4,5-T	88.3	88.8	81.5			8.50
	3-Hydroxycarbofuran	73.9	83.2	103			21.2
	Acesulfame K	104	123	126			2.73
	Acetaminophen	67.5	85.1	91.8			7.52
	Acetamiprid	85.0	98.6	104			5.20
	Afidopyropen	66.9	77.8	83.0			6.47
	Aldicarb	55.0	71.4	76.5			6.84
	Aldicarb Sulfone	92.4	113	111			1.94
	Aldicarb Sulfoxide	126	40.5	47.9			16.8
	AMPA	110	107	110			2.72
	Bentazon	79.8	57.9	67.7			11.0
	Benzovindiflupyr	78.9	77.9	84.9			8.66
	Carbamazepine	81.9	88.2	84.8			3.88
	Carbaryl	82.8	69.9	74.2			6.08
	Carbofuran	72.2	57.5	65.6			13.1
	Clothianidin	66.6	90.3	90.6			0.382
	Dinotefuran	89.7	102	114			11.6
	Diuron	77.0	69.1	83.0			18.4
	Endothall	117	133	136			2.34
	Fenuron	92.6	80.5	84.8			5.19
	Fluridone	90.3	83.5	81.7			2.08
	Glufosinate	114	97.5	101			3.94
	Glyphosate	110	103	101			1.55
	Hydrocodone	96.6	103	115			10.8
	Ibuprofen	57.9	58.2	71.4			20.3
	Imazapyr	89.8	109	119			7.36
	Imidacloprid	91.6	122	114			6.62
	Linuron	75.3	80.6	75.6			6.42
	Mandestrobin	90.7	87.1	92.5			5.97
	MCPP	93.1	90.5	103			13.4
	Methiocarb	77.7	63.5	75.2			16.9
	Methomyl	97.1	95.7	89.7			6.48
	Naproxen	59.1	83.6	69.9			17.8
	Oxamyl	98.3	102	100			1.38
	Primidone	86.1	107	86.0			19.1
	Propoxur	82.9	72.2	70.5			2.42
	Pyraclostrobin	81.3	91.1	95.7			4.96
	Silvex	82.3	86.9	81.4			6.53
	Sucralose	98.9	89.6	93.1			3.84
	Thiamethoxam	89.4	107	99.0			7.84
	Tolfenpyrad	40.2	58.7	40.7			36.2
	Triclopyr	76.7	77.8	72.6			6.96
SM 2320 B-2011	Total Alkalinity	98.5				2.37	
	Total Alkalinity	101				0.738	
SM 2540 C-2015	TDS	96.8				4.82	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
SM 2540 C-2015	TDS	96.0			7.58	
SM 2540 D-2015	TSS	88.8				
	TSS	102				
	TSS	102			7.59	
SM 4500-F- C-2011	Fluoride	98.8	98.4	100		1.48
	Fluoride	98.3	99.1	102		1.93
SM 5310 B-2014	Organic Carbon	99.2	97.0	97.5		0.582
	Organic Carbon	99.0	98.7	101		1.93
	Organic Carbon	97.3	91.4	91.4		0.0494

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2492954, 2492956, 2492958, 2492960
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2492954, 2492956, 2492958, 2492960
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2492985, 2492986
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2492985, 2492986
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2492954, 2492956, 2492958, 2492960
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2492954, 2492956, 2492958, 2492960
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2492955, 2492957, 2492959, 2492961
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2492955, 2492957, 2492959, 2492961
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2492955, 2492957, 2492959, 2492961
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2492955, 2492957, 2492959, 2492961
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2492981
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2492980, 2492982
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2492981
EPA 8270E	PCBs in water matrices by GC/MS/MS	2492980, 2492982
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2492980, 2492982
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2492974
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2492975
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2492954, 2492956, 2492958, 2492960
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2492985, 2492986
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2492954, 2492956, 2492958, 2492960
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2492954, 2492956, 2492958, 2492960
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2492954, 2492956, 2492958, 2492960
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2492955, 2492957, 2492959, 2492961

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	06/11/2024			06/11/2024 13:35	Jessica K Wilks	2492954
	06/11/2024			06/11/2024 13:36	Jessica K Wilks	2492956
	06/11/2024			06/11/2024 13:37	Jessica K Wilks	2492960
	06/11/2024			06/11/2024 14:26	Jessica K Wilks	2492958
EPA 180.1 Rev. 2.0	06/11/2024			06/11/2024 14:49	Jessica K Wilks	2492954, 2492956
	06/11/2024			06/11/2024 14:52	Jessica K Wilks	2492958, 2492960
EPA 200.7 Rev. 4.4	06/11/2024	06/17/2024 14:15	George D Taylor	06/18/2024 14:27	Conrad Hartmann	2492985
	06/11/2024	06/17/2024 14:15	George D Taylor	06/18/2024 16:02	Chase Roberts	2492986
	06/11/2024	06/17/2024 14:15	George D Taylor	06/18/2024 16:10	Chase Roberts	2492986
EPA 200.8 Rev. 5.4	06/11/2024	06/17/2024 14:15	George D Taylor	06/18/2024 22:05	Emily M Philpot	2492986
	06/11/2024	06/17/2024 14:15	George D Taylor	06/19/2024 00:27	Emily M Philpot	2492985
	06/11/2024	06/17/2024 14:15	George D Taylor	06/19/2024 17:36	Emily M Philpot	2492985
	06/11/2024	06/17/2024 14:15	George D Taylor	06/19/2024 20:20	Emily M Philpot	2492986
	06/11/2024	06/20/2024 11:10	Vijayalakshmi Reddy	06/21/2024 05:01	Emily M Philpot	2492986
	06/11/2024	06/21/2024 13:15	George D Taylor	06/24/2024 20:51	McKinley C Carter	2492985
EPA 300.0 Rev. 2.1	06/11/2024			06/19/2024 12:38	James L Waggeberby	2492954
	06/11/2024			06/19/2024 12:53	James L Waggeberby	2492956
	06/11/2024			06/19/2024 13:08	James L Waggeberby	2492958
	06/11/2024			06/19/2024 13:23	James L Waggeberby	2492960
EPA 350.1 Rev. 2.0	06/11/2024			06/19/2024 11:12	Khloe J Berg	2492955
	06/11/2024			06/19/2024 11:56	Khloe J Berg	2492959
	06/11/2024			06/19/2024 12:23	Khloe J Berg	2492961
	06/11/2024			06/19/2024 13:09	Khloe J Berg	2492957
EPA 351.2 Rev. 2.0	06/11/2024	06/20/2024 11:52	Robyn Blevins	06/21/2024 12:48	Robyn Blevins	2492959
	06/11/2024	06/20/2024 11:52	Robyn Blevins	06/21/2024 13:30	Robyn Blevins	2492955
	06/11/2024	06/20/2024 11:52	Robyn Blevins	06/21/2024 13:32	Robyn Blevins	2492957
	06/11/2024	06/20/2024 11:52	Robyn Blevins	06/21/2024 13:34	Robyn Blevins	2492961
EPA 353.2 Rev. 2.0	06/11/2024			06/13/2024 13:37	Fadila Guebre	2492955
	06/11/2024			06/13/2024 13:38	Fadila Guebre	2492957
	06/11/2024			06/13/2024 13:41	Fadila Guebre	2492961
	06/11/2024			06/14/2024 15:58	Fadila Guebre	2492959
EPA 365.1 Rev. 2.0	06/11/2024	06/17/2024 08:05	Adam P Silver	06/18/2024 11:46	Simonne.V. Calhoun	2492957
	06/11/2024	06/17/2024 08:05	Adam P Silver	06/18/2024 15:52	Simonne.V. Calhoun	2492961
	06/11/2024	06/17/2024 08:05	Adam P Silver	06/18/2024 15:56	Simonne.V. Calhoun	2492955
	06/11/2024	06/21/2024 12:57	Adam P Silver	06/27/2024 12:18	Simonne.V. Calhoun	2492959
EPA 8270E	06/11/2024	06/17/2024 08:00	Fe-Val Siddell	06/22/2024 00:22	Kenedi Mills	2492980
	06/11/2024	06/17/2024 08:00	Fe-Val Siddell	06/22/2024 00:51	Kenedi Mills	2492982
	06/11/2024	06/17/2024 08:00	Fe-Val Siddell	06/24/2024 05:20	Lipi Saha	2492980
	06/11/2024	06/17/2024 08:00	Fe-Val Siddell	06/24/2024 05:53	Lipi Saha	2492982
	06/11/2024	06/17/2024 08:00	Rasheda Ghaffari	06/19/2024 21:36	Arthur Maknenko	2492981

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8270E	06/11/2024	06/17/2024 08:00	Rasheda Ghaffari	06/25/2024 15:50	Vandana T. Nagar	2492981
EPA 8276	06/11/2024	06/17/2024 08:00	Fe-Val Siddell	06/19/2024 13:03	Arthur Maknenko	2492980
	06/11/2024	06/17/2024 08:00	Fe-Val Siddell	06/19/2024 14:00	Arthur Maknenko	2492982
	06/11/2024	06/12/2024 08:00	Hana Lee	06/12/2024 11:19	Hana Lee	2492975
EPA 8321B	06/11/2024	06/12/2024 08:00	Hana Lee	06/12/2024 11:39	Hana Lee	2492975
	06/11/2024	06/13/2024 09:00	Hoor Shaik	06/14/2024 19:46	Juyoung Kim	2492974
	06/11/2024	06/13/2024 09:00	Hoor Shaik	06/15/2024 01:06	Juyoung Kim	2492975
	06/11/2024	06/13/2024 09:00	Hoor Shaik	06/17/2024 10:28	Juyoung Kim	2492975
	06/11/2024			06/14/2024 06:59	Dale L. Simmons	2492954
SM 2320 B-2011	06/11/2024			06/14/2024 07:14	Dale L. Simmons	2492956
	06/11/2024			06/14/2024 07:23	Dale L. Simmons	2492960
	06/11/2024			06/14/2024 16:37	Dale L. Simmons	2492958
	06/11/2024			06/18/2024 14:27	Conrad Hartmann	2492985
SM 2340 B-2011	06/11/2024			06/18/2024 16:10	Chase Roberts	2492986
SM 2540 C-2015	06/11/2024			06/12/2024 15:40	Yijie Li	2492954, 2492956, 2492958, 2492960
SM 2540 D-2015	06/11/2024			06/12/2024 15:40	Yijie Li	2492954, 2492956, 2492958, 2492960
SM 4500-F- C-2011	06/11/2024			06/14/2024 06:59	Dale L. Simmons	2492954
	06/11/2024			06/14/2024 07:14	Dale L. Simmons	2492956
	06/11/2024			06/14/2024 07:23	Dale L. Simmons	2492960
	06/11/2024			06/14/2024 14:58	Dale L. Simmons	2492958
SM 5310 B-2014	06/11/2024			06/17/2024 16:52	Jessica K Wilks	2492955
	06/11/2024			06/17/2024 17:08	Jessica K Wilks	2492957
	06/11/2024			06/17/2024 23:50	Jessica K Wilks	2492961
	06/11/2024			06/18/2024 04:11	Jessica K Wilks	2492959