

Chemical Analysis Report

SE-DIST-2023-07-11-01

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

Event Description: **SE Okeechobee**
Request ID: **RQ-2023-07-10-24**
Customer: **SE-DIST**
Project ID: **SMP**

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

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

Date Certified: 27-JUL-2023 16:52



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: FARM CANAL AT HWY 98 AND SR 717

Collection Date/Time: 07/10/2023 09:40

Field ID: G5SE0091

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2422650	DEP SOP: NU-094-1	Color (true)	170		PCU	P432308	
	EPA 180.1 Rev. 2.0	Turbidity	8.0		NTU	P432302	
	EPA 300.0 Rev. 2.1	Chloride	220		mg Cl/L	P432486	
		Sulfate	150		mg SO4/L	P432489	
	SM 2320 B-2011	Total Alkalinity	298		mg CaCO3/L	P432714	
	SM 2540 C-2015	TDS	964		mg/L	P432583	
	SM 2540 D-2015	TSS	18		mg/L	P432537	
	SM 4500-F- C-2011	Fluoride	0.56		mg F/L	P432496	
2422651	EPA 350.1 Rev. 2.0	Ammonia-N	0.066		mg N/L	P432567	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	3.8		mg N/L	P432755	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.24		mg N/L	P432532	
	EPA 365.1 Rev. 2.0	Total-P	0.34		mg P/L	P432397	
	SM 5310 B-2011	Organic Carbon	39		mg C/L	P432395	
2422658	EPA 8321B	Aldicarb	0.020	U	ug/L	P432316	RPD
		Aldicarb Sulfone	0.0020	U	ug/L	P432316	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P432316	MS
		Carbaryl	0.0020	U	ug/L	P432316	
		Carbofuran	0.0020	U	ug/L	P432316	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P432316	
		Methiocarb	0.0020	U	ug/L	P432316	
		Methomyl	0.0020	U	ug/L	P432316	
		Oxamyl	0.0020	U	ug/L	P432316	
		Propoxur	0.0020	U	ug/L	P432316	
2422659		2,4-D	0.043		ug/L	P432236	
		Acesulfame K	0.10	U	ug/L	P432281	
		2,4,5-T	0.0040	U	ug/L	P432236	
		AMPA	1.6		ug/L	P432281	
		Acetaminophen	0.0080	U	ug/L	P432236	
		Acetamiprid	0.0020	U	ug/L	P432236	
		Endothall	0.25	U	ug/L	P432281	
		Glufosinate	0.10	U	ug/L	P432281	
		Glyphosate	9.9		ug/L	P432281	
		Afidopyropen	0.0020	U	ug/L	P432236	
		Bentazon	2.5		ug/L	P432236	
		Sucralose	0.088		ug/L	P432281	
		Benzovindiflupyr	0.0020	U	ug/L	P432236	
		Carbamazepine	8.0E-04	U	ug/L	P432236	
		Clothianidin	0.0020	U	ug/L	P432236	
		Dinotefuran	0.0020	U	ug/L	P432236	
		Diuron	0.0058	I	ug/L	P432236	MS
		Fenuron	0.032	U	ug/L	P432236	
		Fluridone	0.0012	I	ug/L	P432236	
		Imazapyr	0.043		ug/L	P432236	
		Hydrocodone	0.0020	U	ug/L	P432236	

Field ID: G5SE0091

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2422659	EPA 8321B	Ibuprofen	0.080	U	ug/L	P432236	
		Imidacloprid	0.0029	I	ug/L	P432236	
		Linuron	0.0040	U	ug/L	P432236	
		Mandestrobin	0.0020	U	ug/L	P432236	
		MCP	0.0020	U	ug/L	P432236	
		Naproxen	0.0080	U	ug/L	P432236	
		Primidone	0.0040	U	ug/L	P432236	
		Pyraclostrobin	0.0020	U	ug/L	P432236	
		Silvex	0.0040	U	ug/L	P432236	
		Thiamethoxam	0.0020	U	ug/L	P432236	
		Tolfenpyrad	0.0020	U	ug/L	P432236	
		Triclopyr	0.0040	U	ug/L	P432236	
2422660	EPA 8270E	Aldrin	0.67	U	ng/L	P432363	
		Alpha-BHC	0.10	U	ng/L	P432363	
		Alpha-Chlordane	0.21	U	ng/L	P432363	
		PCB-1016	2.1	U	ng/L	P432363	
		Beta-BHC	0.10	U	ng/L	P432363	
		PCB-1221	2.1	U	ng/L	P432363	
		Beta-Cyfluthrin	1.3	U	ng/L	P432363	
		PCB-1232	2.1	U	ng/L	P432363	
		Bifenthrin	0.52	U	ng/L	P432363	
		PCB-1242	2.1	U	ng/L	P432363	
		PCB-1248	2.1	U	ng/L	P432363	
		Chlorothalonil	3.7	U	ng/L	P432363	
		PCB-1254	2.1	U	ng/L	P432363	
		Cis-Nonachlor	0.21	U	ng/L	P432363	
		PCB-1260	2.1	U	ng/L	P432363	
		Cypermethrin	1.5	U	ng/L	P432363	
		Dacthal	0.15	U	ng/L	P432363	
		DDD-p,p'	0.74	I	ng/L	P432363	
		DDE-p,p'	0.22	I	ng/L	P432363	
		DDT-p,p'	0.83	U	ng/L	P432363	MS
		Delta-BHC	0.41	U	ng/L	P432363	
		Deltamethrin	1.3	U	ng/L	P432363	
		Dichlobenil	0.26	U	ng/L	P432363	
		Dicofol	1.3	U	ng/L	P432363	
		Dieldrin	0.64	I	ng/L	P432363	
		Endosulfan I	0.41	U	ng/L	P432363	
		Endosulfan II	0.93	U	ng/L	P432363	
		Endosulfan Sulfate	0.31	U	ng/L	P432363	
		Endrin	0.93	U	ng/L	P432363	
		Endrin Aldehyde	0.77	U	ng/L	P432363	
		Endrin Ketone	0.41	U	ng/L	P432363	
		Esfenvalerate	0.77	U	ng/L	P432363	
		Ethalfuralin	0.15	U	ng/L	P432363	

Field ID: G5SE0091

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2422660	EPA 8270E	Fenpropathrin	0.26	U	ng/L	P432363	
		Gamma-BHC	0.13	U	ng/L	P432363	
		Gamma-Chlordane	0.21	U	ng/L	P432363	
		Heptachlor	0.21	U	ng/L	P432363	
		Heptachlor Epoxide	0.26	U	ng/L	P432363	
		Hexachlorobenzene**	1.0	U	ng/L	P432363	
		Kepone	14	UJ	ng/L	P432363	CCV
		Lambda-Cyhalothrin	0.77	U	ng/L	P432363	
		Methoprene	0.77	U	ng/L	P432363	
		Methoxychlor	0.31	U	ng/L	P432363	
		MGK-264	0.21	U	ng/L	P432363	
		Mirex	0.36	U	ng/L	P432363	
		Oxychlordane	0.31	U	ng/L	P432363	
		Permethrin	1.7	U	ng/L	P432363	
		Phenothrin	0.93	U	ng/L	P432363	
		Piperonyl Butoxide	0.47	I	ng/L	P432363	
		Prallethrin	2.1	U	ng/L	P432363	
		Tau-Fluvalinate	0.26	U	ng/L	P432363	
		Tetramethrin	0.77	U	ng/L	P432363	
		Trans-Nonachlor	0.21	U	ng/L	P432363	
		Triclosan Methyl	0.15	U	ng/L	P432363	
		Trifluralin	0.21	U	ng/L	P432363	
		Chlordane	2.1	U	ng/L	P432363	
		Toxaphene	63		ng/L	P432363	
2422661	EPA 8270E	Oxybenzone**	10	U	ng/L	P432162	
		Acetochlor	0.20	U	ng/L	P432162	
		Octinoxate**	150	U	ng/L	P432162	
		Alachlor	0.41	U	ng/L	P432162	
		Avobenzone**	100	U	ng/L	P432162	
		Ametryn	91		ng/L	P432162	
		Atrazine	690		ng/L	P432162	
		PBDE-47**	4.1	U	ng/L	P432162	
		Atrazine Desethyl	38		ng/L	P432162	
		PBDE-99**	5.1	U	ng/L	P432162	
		Azinphos Methyl	3.0	U	ng/L	P432162	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P432162	
		Azoxystrobin	13		ng/L	P432162	
		Bromacil	0.61	U	ng/L	P432162	
		2-Ethylhexyl	12	U	ng/L	P432162	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.20	U	ng/L	P432162	
		Dechlorane Plus**	30	U	ng/L	P432162	
		Caffeine**	7.6	U	ng/L	P432162	
		Dechlorane 602**	5.1	U	ng/L	P432162	
		Carbophenothion	0.51	U	ng/L	P432162	RPD

Field ID: G5SE0091

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2422661	EPA 8270E	Dechlorane 603**	4.1	U	ng/L	P432162	
		Carfentrazone Ethyl	0.15	U	ng/L	P432162	
		Hexabromobenzene**	6.1	U	ng/L	P432162	
		Chlorfenapyr	0.30	U	ng/L	P432162	
		PBB-153**	8.1	U	ng/L	P432162	
		Chlorpyrifos Ethyl	0.30	U	ng/L	P432162	
		Pentabromotoluene**	3.0	U	ng/L	P432162	
		Chlorpyrifos Methyl	0.10	U	ng/L	P432162	
		Tris(2-chloroethyl) phosphate (TCEP)**	71	U	ng/L	P432162	
		Coumaphos	1.1	U	ng/L	P432162	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	15	U	ng/L	P432162	
		Cyanazine	5.1	U	ng/L	P432162	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.5	U	ng/L	P432162	
		Cyprodinil	0.20	U	ng/L	P432162	
		Tetradecachloro-m-terphenyl**	7.6	U	ng/L	P432162	
		Demeton	3.6	U	ng/L	P432162	
		Diazinon	0.13	U	ng/L	P432162	
		Difenoconazole	0.61	U	ng/L	P432162	
		Dimethenamid	0.10	U	ng/L	P432162	
		Dimethomorph	0.30	U	ng/L	P432162	MS
		Disulfoton	0.61	U	ng/L	P432162	
		Dithiopyr	1.0	U	ng/L	P432162	
		EPTC	0.51	U	ng/L	P432162	
		Ethion	0.30	U	ng/L	P432162	
		Ethoprop	0.13	U	ng/L	P432162	
		Etridiazole	0.10	U	ng/L	P432162	
		Fenamiphos	0.46	U	ng/L	P432162	
		Fenbuconazole	0.51	UJ	ng/L	P432162	CCV, LCS
		Fipronil	0.20	U	ng/L	P432162	
		Fipronil DesulfinyI**	0.10	U	ng/L	P432162	
		Fipronil Sulfide	0.10	U	ng/L	P432162	
		Fipronil Sulfone	0.10	U	ng/L	P432162	
		Fluazifop-P-butyl	0.10	U	ng/L	P432162	
		Fludioxonil	0.10	U	ng/L	P432162	
		Flumioxazin	3.0	U	ng/L	P432162	
		Flutolanil	0.10	U	ng/L	P432162	
		Fluxapyroxad	15		ng/L	P432162	
		Fonofos	0.15	U	ng/L	P432162	
		Hexazinone	94		ng/L	P432162	
		Imazalil	0.66	U	ng/L	P432162	
		Iprodione	0.51	U	ng/L	P432162	
		Loratadine**	0.30	U	ng/L	P432162	MS
		Malathion	0.36	U	ng/L	P432162	
		Metalaxyl	1.6	I	ng/L	P432162	

Field ID: G5SE0091

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2422661	EPA 8270E	Metolachlor	80		ng/L	P432162	
		Metribuzin	26		ng/L	P432162	
		Mevinphos	1.0	U	ng/L	P432162	
		Molinate	0.25	U	ng/L	P432162	
		Myclobutanil	0.36	U	ng/L	P432162	
		Naled	2.5	U	ng/L	P432162	
		Napropamide	0.71	U	ng/L	P432162	
		Norflurazon	1.0	U	ng/L	P432162	
		Oxadiazon	0.36	U	ng/L	P432162	
		Oxyfluorfen	0.20	U	ng/L	P432162	
		Parathion Ethyl	0.15	U	ng/L	P432162	
		Parathion Methyl	0.20	U	ng/L	P432162	
		Pendimethalin	0.76	U	ng/L	P432162	
		Phenytol**	5.4	U	ng/L	P432162	
		Phorate	0.25	U	ng/L	P432162	
		Prodiatamine	0.20	U	ng/L	P432162	
		Prometon	3.0	U	ng/L	P432162	
		Prometryn	1.6	I	ng/L	P432162	
		Pronamide	0.10	U	ng/L	P432162	
		Propanil	0.10	U	ng/L	P432162	
		Propargite	0.81	U	ng/L	P432162	
		Propiconazole	520		ng/L	P432162	
		Pyraflufen Ethyl	0.30	U	ng/L	P432162	
		Pyridaben	1.4	U	ng/L	P432162	
		Pyriproxyfen	0.25	U	ng/L	P432162	
		Simazine	0.25	U	ng/L	P432162	
		Stirophos	0.41	U	ng/L	P432162	
		Sulfentrazone	2.7	I	ng/L	P432162	
		Tebuconazole	1.4	U	ng/L	P432162	
		Terbufos	0.20	U	ng/L	P432162	
		Terbuthylazine	0.20	U	ng/L	P432162	
		Thiobencarb	0.51	U	ng/L	P432162	
		Triadimefon	0.50	I	ng/L	P432162	
2422662	EPA 200.7 Rev. 4.4	Calcium	129		mg/L	P432361	
		Iron	92	I	ug/L	P432361	
		Magnesium	33.4		mg/L	P432361	
		Potassium	10.1		mg/L	P432361	
		Sodium	154		mg/L	P432361	
		Strontium	2.58E+03		ug/L	P432361	
		Tin	3.0	U	ug/L	P432361	
		Titanium	0.81	I	ug/L	P432361	
		Vanadium	2.0	I	ug/L	P432361	
		Zinc	7.4	I	ug/L	P432361	
	EPA 200.8 Rev. 5.4	Aluminum	27		ug/L	P432700	
		Antimony	0.18	I	ug/L	P432361	

Field ID: G5SE0091

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2422662	EPA 200.8 Rev. 5.4	Arsenic	4.80		ug/L	P432361	
		Barium	89.6		ug/L	P432361	
		Beryllium	0.016	I	ug/L	P432361	
		Boron	173		ug/L	P432361	
		Cadmium	0.020	U	ug/L	P432361	
		Chromium	0.40	U	ug/L	P432361	
		Cobalt	0.177		ug/L	P432361	
		Copper	0.62	I	ug/L	P432361	
		Lead	0.20	U	ug/L	P432361	
		Manganese	20.5		ug/L	P432361	
		Molybdenum	3.42		ug/L	P432361	
		Nickel	0.65	I	ug/L	P432361	
		Selenium	0.37	I	ug/L	P432361	
		Silver	0.010	U	ug/L	P432512	
		Thallium	0.10	U	ug/L	P432361	
	SM 2340 B-2011	Hardness	459		mg/L	P432361	

Ref. Method and Comment:
 EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
 EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.
 EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
 EPA 8270E: MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: FB

Collection Date/Time: 07/10/2023 09:50

Field ID: FB_07102023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2422652	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P432311	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P432302	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P432486	
		Sulfate	0.20	U	mg SO4/L	P432489	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P432714	
	SM 2540 C-2015	TDS	15	U	mg/L	P432583	
	SM 2540 D-2015	TSS	2	U	mg/L	P432537	
2422653	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P432496	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P432424	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P432755	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P432532	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P432397	
2422663	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P432536	
	EPA 200.7 Rev. 4.4	Calcium	0.075	U	mg/L	P432361	
		Iron	30	U	ug/L	P432361	
		Magnesium	0.040	U	mg/L	P432361	
		Potassium	0.30	U	mg/L	P432361	
		Sodium	0.50	U	mg/L	P432361	
		Strontium	2.0	U	ug/L	P432361	
		Tin	3.0	U	ug/L	P432361	
		Titanium	0.75	U	ug/L	P432361	
		Vanadium	2.0	U	ug/L	P432361	
		Zinc	5.0	U	ug/L	P432361	
		Aluminum	5.0	U	ug/L	P432700	
		Antimony	0.050	U	ug/L	P432361	
		Arsenic	0.050	U	ug/L	P432361	
		Barium	0.20	U	ug/L	P432361	
		Beryllium	0.010	U	ug/L	P432361	
		Boron	2.0	U	ug/L	P432361	
		Cadmium	0.020	U	ug/L	P432361	
		Chromium	0.40	U	ug/L	P432361	
		Cobalt	0.020	U	ug/L	P432361	
		Copper	0.40	U	ug/L	P432361	
		Lead	0.20	U	ug/L	P432361	
		Manganese	0.10	U	ug/L	P432361	
		Molybdenum	0.15	U	ug/L	P432361	
		Nickel	0.50	U	ug/L	P432361	
		Selenium	0.20	U	ug/L	P432361	
		Silver	0.010	U	ug/L	P432512	
		Thallium	0.10	U	ug/L	P432361	
	SM 2340 B-2011	Hardness	0.35	U	mg/L	P432361	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: SFWMD C2444 AT BEAN CITY

Collection Date/Time: 07/10/2023 10:50

Field ID: G5SE0029

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2422648	DEP SOP: NU-094-1	Color (true)	79	A	PCU	P432308	
	EPA 180.1 Rev. 2.0	Turbidity	5.0	A	NTU	P432302	
	EPA 300.0 Rev. 2.1	Chloride	120		mg Cl/L	P432486	
		Sulfate	110		mg SO4/L	P432489	
	SM 2320 B-2011	Total Alkalinity	355		mg CaCO3/L	P432714	
	SM 2540 C-2015	TDS	756		mg/L	P432583	
	SM 2540 D-2015	TSS	5	I	mg/L	P432537	
	SM 4500-F- C-2011	Fluoride	0.62		mg F/L	P432496	
2422649	EPA 350.1 Rev. 2.0	Ammonia-N	0.83		mg N/L	P432567	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.5		mg N/L	P432755	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P432532	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P432397	
	SM 5310 B-2011	Organic Carbon	23		mg C/L	P432395	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: 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: P432308

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P432311

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P432302

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P432361

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Titanium	0.75	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P432361

Component	Result	Code	Units
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Barium	0.20	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Thallium	0.10	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P432512

Component	Result	Code	Units
Silver	0.010	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P432700

Component	Result	Code	Units
Aluminum	5.0	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432486

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432489

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432424

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432567

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432755

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432532

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432397

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P432162

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.20	U	ng/L
Butylate	0.20	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P432162

Component	Result	Code	Units
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P432162

Component	Result	Code	Units
Metalaxyl	0.50	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	150	U	ng/L
Octinoxate	150	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	8.0	U	ng/L
PBB-153	8.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	0.75	U	ng/L
Pendimethalin	0.75	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytol	5.3	U	ng/L
Phenytol	5.3	U	ng/L
Phorate	0.25	U	ng/L
Phorate	0.25	U	ng/L
Prodiatone	0.20	U	ng/L
Prodiatone	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Pronamide	0.10	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P432162

Component	Result	Code	Units
Propanil	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbufos	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L

Reference Method: EPA 8270E

Batch ID: P432363

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P432363

Component	Result	Code	Units
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.80	U	ng/L
DDT-p,p'	0.80	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin	0.90	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P432363

Component	Result	Code	Units
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	14	U	ng/L
Kepone	14	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8276

Batch ID: P432363

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

Reference Method: EPA 8321B

Batch ID: P432236

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

Reference Method: EPA 8321B

Batch ID: P432281

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: P432316

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P432316

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: P432714

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

Reference Method: SM 2540 C-2015

Batch ID: P432583

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P432537

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P432496

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P432395

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

Reference Method: SM 5310 B-2011

Batch ID: P432536

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: P432308

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

Reference Method: DEP SOP: NU-094-1
Batch ID: P432311

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	103		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P432302

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P432361

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	99.0		P	85 - 115
Iron	101		P	85 - 115
Magnesium	101		P	85 - 115
Potassium	101		P	85 - 115
Sodium	100		P	85 - 115
Strontium	97.7		P	85 - 115
Tin	98.7		P	85 - 115
Titanium	97.3		P	85 - 115
Vanadium	96.6		P	85 - 115
Zinc	97.6		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P432361

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Antimony	101		P	85 - 115
Arsenic	100		P	85 - 115
Barium	103		P	85 - 115
Beryllium	100		P	85 - 115
Boron	102		P	85 - 115
Cadmium	99.3		P	85 - 115
Chromium	95.0		P	85 - 115
Cobalt	98.4		P	85 - 115
Copper	98.2		P	85 - 115
Lead	92.6		P	85 - 115
Manganese	97.1		P	85 - 115
Molybdenum	99.1		P	85 - 115
Nickel	98.6		P	85 - 115
Selenium	102		P	85 - 115
Thallium	100		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P432512

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Silver	98.3		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P432700

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	98.4		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432486

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432489

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432424

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432567

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432755

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432532

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	106		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432397

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P432162

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	80.8		P	42 - 162
Acetochlor	95.7		P	69 - 123
Alachlor	106		P	65 - 118
Ametryn	115		P	58 - 141
Atrazine	87.8		P	73 - 118
Atrazine Desethyl	80.9		P	32 - 125
Avobenzone	106		P	40 - 203
Azinphos Methyl	89.9		P	36 - 197
Azoxystrobin	97.6		P	58 - 226
Bromacil	104		P	48 - 120
Butylate	59.1		P	27 - 85.0
Caffeine	132		P	40 - 137
Carbophenothion	116		P	54 - 132
Carfentrazone Ethyl	118		P	60 - 142
Chlorfenapyr	111		P	53 - 117
Chlorpyrifos Ethyl	99.0		P	59 - 116
Chlorpyrifos Methyl	93.8		P	66 - 119
Coumaphos	121		P	11 - 234
Cyanazine	144		P	61 - 248
Cyprodinil	102		P	50 - 147
Dechlorane 602	57.6		P	50 - 150
Dechlorane 603	95.1		P	50 - 150
Dechlorane Plus	78.6		P	47 - 182
Demeton	68.5		P	30 - 138
Diazinon	102		P	67 - 126
Difenoconazole	83.3		P	38 - 205
Dimethenamid	84.6		P	57 - 111
Dimethomorph	157		P	16 - 212
Disulfoton	99.3		P	46 - 126
Dithiopyr	99.6		P	62 - 115
EPTC	51.5		P	28 - 80.0
Ethion	59.8		P	24 - 122
Ethoprop	80.0		P	62 - 113
Etridiazole	62.6		P	28 - 92.0
Fenamiphos	109		P	57 - 128
Fenbuconazole	33.2		F	52 - 155
Fipronil	98.5		P	63 - 130
Fipronil Desulfinyl	108		P	61 - 130
Fipronil Sulfide	96.8		P	56 - 117
Fipronil Sulfone	116		P	52 - 118
Fluazifop-P-butyl	128		P	61 - 128
Fludioxonil	84.1		P	59 - 129
Flumioxazin	123		P	30 - 250
Flutolanil	87.1		P	53 - 127
Fluxapyroxad	94.0		P	42 - 132
Fonofos	80.3		P	61 - 110
Hexabromobenzene	96.3		P	50 - 150
Hexazinone	90.3		P	46 - 139
Imazalil	122		P	40 - 139
Iprodione	96.8		P	40 - 146
Loratadine	141		P	10 - 224
Malathion	91.9		P	61 - 135

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P432162

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Metalaxyl	90.5		P	58 - 121
Metolachlor	100		P	64 - 118
Metribuzin	88.1		P	45 - 245
Mevinphos	63.3		P	49 - 118
Molinate	59.1		P	42 - 92.0
Myclobutanil	98.8		P	55 - 127
Naled	37.5		P	10 - 114
Napropamide	93.6		P	39 - 121
Norflurazon	100		P	55 - 129
Octinoxate	92.7		P	26 - 166
Oxadiazon	86.7		P	54 - 115
Oxybenzone	95.5		P	49 - 135
Oxyfluorfen	136		P	64 - 139
Parathion Ethyl	83.3		P	70 - 111
Parathion Methyl	119		P	76 - 136
PBB-153	92.9		P	50 - 150
PBDE-47	83.2		P	41 - 148
PBDE-99	75.5		P	38 - 147
Pendimethalin	86.0		P	52 - 118
Pentabromotoluene	82.0		P	50 - 150
Phenytoin	22.8		P	10 - 162
Phorate	74.2		P	40 - 122
Prodiamine	32.8		P	26 - 141
Prometon	71.1		P	54 - 122
Prometryn	104		P	61 - 128
Pronamide	117		P	72 - 121
Propanil	117		P	45 - 144
Propargite	64.7		P	10 - 199
Propiconazole	71.0		P	56 - 127
Pyraflufen Ethyl	114		P	56 - 140
Pyridaben	90.2		P	26 - 211
Pyriproxyfen	69.4		P	33 - 194
Simazine	82.2		P	67 - 121
Stirophos	69.3		P	20 - 142
Sulfentrazone	67.5		P	21 - 144
Tebuconazole	55.0		P	10 - 122
Terbufos	106		P	60 - 129
Terbuthylazine	89.7		P	69 - 113
Tetradecachloro-m-terphenyl	117		P	70 - 200
Thiobencarb	98.2		P	51 - 120
Tri-o-cresyl Phosphate	84.9		P	49 - 150
Triadimefon	91.5		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	88.6		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	81.3		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	85.9		P	70 - 180

Reference Method: EPA 8270E

Batch ID: P432363

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	66.5		P	30 - 96.0
Alpha-BHC	81.9		P	70 - 109

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P432363

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Alpha-Chlordane	85.2		P	45 - 107
Beta-BHC	94.9		P	64 - 138
Beta-Cyfluthrin	82.3		P	17 - 141
Bifenthrin	75.5		P	10 - 113
Chlorothalonil	87.7		P	26 - 180
Cis-Nonachlor	81.9		P	37 - 102
Cypermethrin	118		P	20 - 133
Dacthal	89.7		P	69 - 114
DDD-p,p'	78.1		P	42 - 105
DDE-p,p'	83.0		P	42 - 106
DDT-p,p'	102		P	42 - 107
Delta-BHC	89.7		P	67 - 144
Deltamethrin	112		P	15 - 149
Dichlobenil	70.2		P	46 - 117
Dicofol	73.2		P	34 - 114
Dieldrin	85.2		P	50 - 108
Endosulfan I	90.5		P	55 - 104
Endosulfan II	75.3		P	51 - 111
Endosulfan Sulfate	90.7		P	56 - 121
Endrin	82.7		P	10 - 106
Endrin Aldehyde	63.7		P	34 - 114
Endrin Ketone	98.0		P	63 - 177
Esfenvalerate	117		P	29 - 143
Ethalfuralin	75.7		P	46 - 96.0
Fenpropathrin	84.3		P	28 - 115
Gamma-BHC	96.3		P	65 - 121
Gamma-Chlordane	85.8		P	39 - 103
Heptachlor	84.9		P	39 - 94.0
Heptachlor Epoxide	92.0		P	54 - 104
Hexachlorobenzene	81.7		P	36 - 100
Kepone	62.5		P	10 - 225
Lambda-Cyhalothrin	111		P	10 - 135
Methoprene	81.7		P	10 - 109
Methoxychlor	78.0		P	52 - 112
MGK-264	93.2		P	44 - 117
Mirex	78.5		P	20 - 90.0
Oxychlordane	88.6		P	44 - 102
PCB-1016	80.2		P	45 - 107
PCB-1260	95.5		P	40 - 118
Permethrin	103		P	18 - 135
Phenothrin	71.1		P	10 - 102
Piperonyl Butoxide	99.1		P	28 - 156
Prallethrin	87.6		P	28 - 113
Tau-Fluvalinate	110		P	10 - 123
Tetramethrin	95.6		P	18 - 158
Trans-Nonachlor	83.6		P	39 - 104
Triclosan Methyl	90.3		P	54 - 108
Trifluralin	73.5		P	46 - 97.0

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8276

Batch ID: P432363

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	91.8		P	52 - 117
Toxaphene	95.1		P	44 - 125

Reference Method: EPA 8321B

Batch ID: P432236

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	92.7		P	40 - 150
2,4,5-T	87.2		P	40 - 150
Acetaminophen	65.5		P	30 - 150
Acetamiprid	73.2		P	40 - 150
Afidopyropen	54.3		P	30 - 150
Bentazon	121		P	30 - 150
Benzovindiflupyr	75.6		P	40 - 150
Carbamazepine	72.2		P	40 - 150
Clothianidin	87.9		P	40 - 150
Dinotefuran	95.0		P	40 - 150
Diuron	81.8		P	40 - 150
Fenuron	85.3		P	40 - 150
Fluridone	82.7		P	40 - 150
Hydrocodone	89.1		P	40 - 150
Ibuprofen	67.0		P	40 - 150
Imazapyr	76.8		P	40 - 150
Imidacloprid	83.5		P	40 - 150
Linuron	72.1		P	40 - 150
Mandestrobin	88.2		P	40 - 150
MCPP	96.6		P	40 - 150
Naproxen	68.0		P	40 - 150
Primidone	75.6		P	40 - 150
Pyraclostrobin	68.0		P	40 - 150
Silvex	97.7		P	40 - 150
Thiamethoxam	67.7		P	40 - 150
Tolfenpyrad	42.2		P	30 - 150
Triclopyr	89.6		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P432281

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	105		P	40 - 150
AMPA	80.7		P	40 - 150
Endothall	71.5		P	40 - 150
Glufosinate	119		P	40 - 150
Glyphosate	125		P	40 - 150
Sucralose	89.4		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P432316

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	71.2		P	40 - 150
Aldicarb	57.6		P	30 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P432316

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldicarb Sulfone	88.1		P	40 - 150
Aldicarb Sulfoxide	105		P	40 - 150
Carbaryl	51.4		P	40 - 150
Carbofuran	87.0		P	40 - 150
Methiocarb	64.6		P	40 - 150
Methomyl	85.6		P	40 - 150
Oxamyl	89.4		P	40 - 150
Propoxur	80.8		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P432714

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.0		P	92 - 105

Reference Method: SM 2540 C-2015

Batch ID: P432583

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	96.9		P	90 - 110

Reference Method: SM 2540 D-2015

Batch ID: P432537

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	93.2		P	85 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P432496

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

Reference Method: SM 5310 B-2011

Batch ID: P432395

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.4		P	85 - 115

Reference Method: SM 5310 B-2011

Batch ID: P432536

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P432361

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422210	Calcium	100		P	80 - 120
2422210	Iron	101	99.7	P/P	80 - 120
2422210	Magnesium	102	101	P/P	80 - 120
2422210	Potassium	99.8	99.9	P/P	80 - 120
2422210	Sodium	100		P	80 - 120
2422210	Strontium	99.1	98.9	P/P	80 - 120
2422210	Tin	101	99.1	P/P	80 - 120
2422210	Titanium	98.0	97.5	P/P	80 - 120
2422210	Vanadium	98.8	98.7	P/P	80 - 120
2422210	Zinc	101	99.9	P/P	80 - 120
2422211	Calcium	101		P	80 - 120
2422211	Iron	98.9		P	80 - 120
2422211	Magnesium	102		P	80 - 120
2422211	Potassium	98.5		P	80 - 120
2422211	Sodium	101		P	80 - 120
2422211	Strontium	97.6		P	80 - 120
2422211	Tin	97.5		P	80 - 120
2422211	Titanium	90.5		P	80 - 120
2422211	Vanadium	97.4		P	80 - 120
2422211	Zinc	99.1		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P432361

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422210	Antimony	101	111	P/P	80 - 120
2422210	Arsenic	100	110	P/P	80 - 120
2422210	Barium	103	113	P/P	80 - 120
2422210	Beryllium	97.2	105	P/P	80 - 120
2422210	Boron	103	114	P/P	80 - 120
2422210	Cadmium	100	109	P/P	80 - 120
2422210	Chromium	97.3	107	P/P	80 - 120
2422210	Cobalt	97.1	107	P/P	80 - 120
2422210	Copper	99.5	110	P/P	80 - 120
2422210	Lead	93.4	102	P/P	80 - 120
2422210	Manganese	96.1	106	P/P	80 - 120
2422210	Molybdenum	99.2	108	P/P	80 - 120
2422210	Nickel	99.2	109	P/P	80 - 120
2422210	Selenium	102	109	P/P	80 - 120
2422210	Thallium	104	113	P/P	80 - 120
2422211	Antimony	98.8		P	80 - 120
2422211	Arsenic	97.4		P	80 - 120
2422211	Barium	102		P	80 - 120
2422211	Beryllium	94.8		P	80 - 120
2422211	Boron	104		P	80 - 120
2422211	Cadmium	98.7		P	80 - 120
2422211	Chromium	94.7		P	80 - 120
2422211	Cobalt	94.9		P	80 - 120
2422211	Copper	95.8		P	80 - 120
2422211	Lead	91.8		P	80 - 120
2422211	Manganese	93.1		P	80 - 120
2422211	Molybdenum	95.7		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P432361

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422211	Nickel	97.9		P	80 - 120
2422211	Selenium	96.0		P	80 - 120
2422211	Thallium	101		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P432512

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421707	Silver	99.3	106	P/P	80 - 120
2423336	Silver	103		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P432700

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2424324	Aluminum	95.9	96.0	P/P	80 - 120
2424542	Aluminum	99.3		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432486

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422760	Chloride	100		P	90 - 110
2422803	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432489

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422760	Sulfate	98.0		P	90 - 110
2422803	Sulfate	98.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432424

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422404	Ammonia-N	97.6	99.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432567

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423284	Ammonia-N	93.8	98.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432755

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422406	Kjeldahl Nitrogen	100	106	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P432532

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422406	NO2NO3-N	106	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P432397

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421629	Total-P	98.5	97.8	P/P	90 - 110

Reference Method: EPA 8270E
 Batch ID: P432162

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421978	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	115	109	P/P	26 - 165
2421978	Acetochlor	92.3	95.6	P/P	67 - 124
2421978	Alachlor	92.3	102	P/P	60 - 120
2421978	Ametryn	125	103	P/P	54 - 216
2421978	Atrazine Desethyl	78.8	88.6	P/P	15 - 122
2421978	Avobenzene	138	137	P/P	37 - 178
2421978	Azinphos Methyl	118	117	P/P	40 - 292
2421978	Azoxystrobin	125	125	P/P	35 - 220
2421978	Bromacil	108	107	P/P	45 - 127
2421978	Butylate	50.5	62.7	P/P	20 - 83.0
2421978	Caffeine	108	100	P/P	10 - 194
2421978	Carbophenothion	91.3	127	P/P	57 - 127
2421978	Carfentrazone Ethyl	106	137	P/P	51 - 141
2421978	Chlorfenapyr	94.5	104	P/P	46 - 111
2421978	Chlorpyrifos Ethyl	82.4	81.9	P/P	52 - 120
2421978	Chlorpyrifos Methyl	73.1	92.2	P/P	63 - 119
2421978	Coumaphos	142	135	P/P	10 - 228
2421978	Cyanazine	131	148	P/P	59 - 241
2421978	Cyprodinil	76.1	99.7	P/P	47 - 146
2421978	Dechlorane 602	76.0	67.3	P/P	50 - 150
2421978	Dechlorane 603	116	119	P/P	50 - 150
2421978	Dechlorane Plus	74.9	73.7	P/P	50 - 150
2421978	Demeton	72.5	81.5	P/P	40 - 136
2421978	Diazinon	89.9	99.8	P/P	69 - 132
2421978	Difenoconazole	142	137	P/P	57 - 258
2421978	Dimethenamid	82.5	88.6	P/P	54 - 110
2421978	Dimethomorph	269	248	F/F	28 - 210
2421978	Disulfoton	93.8	99.9	P/P	43 - 133
2421978	Dithiopyr	94.9	95.9	P/P	39 - 116
2421978	EPTC	46.1	57.6	P/P	20 - 78.0
2421978	Ethion	70.6	57.5	P/P	17 - 119
2421978	Ethoprop	86.9	87.5	P/P	66 - 120
2421978	Etridiazole	61.8	64.7	P/P	28 - 96.0
2421978	Fenamiphos	94.7	99.4	P/P	41 - 126
2421978	Fenbuconazole	49.6	47.6	P/P	42 - 169
2421978	Fipronil	77.3	98.5	P/P	61 - 132
2421978	Fipronil Desulfinyl	70.8	93.0	P/P	56 - 132
2421978	Fipronil Sulfide	73.8	96.4	P/P	48 - 119
2421978	Fipronil Sulfone	77.2	111	P/P	42 - 131
2421978	Fluazifop-P-butyl	78.2	115	P/P	53 - 131

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P432162

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421978	Fludioxonil	63.6	84.6	P/P	56 - 127
2421978	Flumioxazin	223	195	P/P	19 - 300
2421978	Flutolanil	73.3	90.8	P/P	41 - 127
2421978	Fluxapyroxad	107	115	P/P	42 - 172
2421978	Fonofos	72.0	79.6	P/P	59 - 113
2421978	Hexabromobenzene	117	114	P/P	50 - 150
2421978	Hexazinone	89.9	89.6	P/P	66 - 122
2421978	Imazalil	92.3	103	P/P	21 - 283
2421978	Iprodione	101	101	P/P	43 - 150
2421978	Loratadine	233	229	F/F	23 - 201
2421978	Malathion	78.2	91.8	P/P	58 - 136
2421978	Metaxyl	73.0	81.7	P/P	55 - 120
2421978	Metolachlor	82.2	104	P/P	57 - 121
2421978	Metribuzin	99.4	101	P/P	58 - 294
2421978	Mevinphos	74.1	74.6	P/P	50 - 126
2421978	Molinate	49.3	61.8	P/P	42 - 93.0
2421978	Myclobutanil	99.5	99.2	P/P	55 - 125
2421978	Naled	38.7	37.3	P/P	18 - 200
2421978	Napropamide	59.9	87.0	P/P	39 - 110
2421978	Norflurazon	99.0	105	P/P	48 - 128
2421978	Octinoxate	109	107	P/P	21 - 159
2421978	Oxadiazon	90.1	84.8	P/P	43 - 112
2421978	Oxybenzone	105	105	P/P	41 - 142
2421978	Oxyfluorfen	105	129	P/P	64 - 153
2421978	Parathion Ethyl	112	93.2	P/P	69 - 114
2421978	Parathion Methyl	99.1	130	P/P	79 - 139
2421978	PBB-153	125	131	P/P	50 - 150
2421978	PBDE-47	104	97.4	P/P	27 - 144
2421978	PBDE-99	100	93.6	P/P	18 - 150
2421978	Pendimethalin	74.2	96.5	P/P	50 - 139
2421978	Pentabromotoluene	101	98.9	P/P	50 - 150
2421978	Phenytoin	30.9	29.2	P/P	10 - 146
2421978	Phorate	69.0	78.4	P/P	54 - 161
2421978	Prodiamine	35.8	37.6	P/P	30 - 161
2421978	Prometon	121	110	P/P	45 - 134
2421978	Prometryn	80.6	101	P/P	45 - 137
2421978	Pronamide	123	118	P/P	65 - 133
2421978	Propanil	125	110	P/P	49 - 142
2421978	Propargite	79.6	66.7	P/P	10 - 203
2421978	Propiconazole	69.6	80.9	P/P	38 - 146
2421978	Pyraflufen Ethyl	105	119	P/P	34 - 153
2421978	Pyridaben	139	116	P/P	12 - 192
2421978	Pyriproxyfen	98.8	81.1	P/P	33 - 180
2421978	Simazine	59.5	73.6	P/P	51 - 157
2421978	Stiropfos	19.3	35.2	P/P	10 - 128
2421978	Sulfentrazone	115	115	P/P	53 - 186
2421978	Tebuconazole	70.2	61.6	P/P	10 - 133
2421978	Terbufos	105	106	P/P	65 - 139
2421978	Terbutylazine	77.1	91.9	P/P	66 - 117
2421978	Tetradecachloro-m-terphenyl	120	131	P/P	70 - 200
2421978	Thiobencarb	87.4	91.8	P/P	51 - 119
2421978	Tri-o-cresyl Phosphate	110	107	P/P	31 - 144

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P432162

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421978	Triadimefon	99.3	97.8	P/P	48 - 119
2421978	Tris(1-chloro-2-propyl) phosphate (TCPP)	80.2	80.3	P/P	50 - 150
2421978	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	99.1	98.0	P/P	50 - 150
2421978	Tris(2-chloroethyl) phosphate (TCEP)	105	98.5	P/P	70 - 180

Reference Method: EPA 8270E

Batch ID: P432363

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422984	Aldrin	52.2	53.6	P/P	24 - 81.0
2422984	Alpha-BHC	74.0	81.2	P/P	65 - 110
2422984	Alpha-Chlordane	74.0	75.3	P/P	43 - 119
2422984	Beta-BHC	80.5	80.8	P/P	54 - 165
2422984	Beta-Cyfluthrin	73.4	79.0	P/P	27 - 165
2422984	Bifenthrin	80.5	97.2	P/P	17 - 117
2422984	Chlorothalonil	99.3	108	P/P	10 - 255
2422984	Cis-Nonachlor	61.0	63.7	P/P	34 - 98.0
2422984	Cypermethrin	86.0	96.6	P/P	25 - 143
2422984	Dacthal	80.2	85.4	P/P	55 - 139
2422984	DDD-p,p'	65.2	65.0	P/P	30 - 109
2422984	DDE-p,p'	60.5	61.9	P/P	35 - 106
2422984	DDT-p,p'	98.4	109	P/F	41 - 101
2422984	Delta-BHC	93.1	104	P/P	58 - 165
2422984	Deltamethrin	100	98.2	P/P	10 - 194
2422984	Dichlobenil	42.0	42.3	P/P	22 - 114
2422984	Dicofol	69.8	77.6	P/P	17 - 133
2422984	Dieldrin	72.7	80.2	P/P	45 - 129
2422984	Endosulfan I	80.2	89.8	P/P	49 - 104
2422984	Endosulfan II	57.8	55.1	P/P	37 - 117
2422984	Endosulfan Sulfate	61.6	62.7	P/P	38 - 128
2422984	Endrin	58.0	63.2	P/P	35 - 116
2422984	Endrin Aldehyde	38.7	36.9	P/P	19 - 108
2422984	Endrin Ketone	77.7	70.0	P/P	44 - 134
2422984	Esfenvalerate	101	110	P/P	27 - 176
2422984	Ethalfuralin	70.1	70.6	P/P	49 - 100
2422984	Fenpropathrin	75.8	82.8	P/P	34 - 117
2422984	Gamma-BHC	110	105	P/P	59 - 129
2422984	Gamma-Chlordane	81.1	81.5	P/P	33 - 107
2422984	Heptachlor	88.4	90.7	P/P	37 - 94.0
2422984	Heptachlor Epoxide	84.6	87.0	P/P	38 - 118
2422984	Hexachlorobenzene	77.1	75.7	P/P	35 - 97.0
2422984	Kepone	32.5	30.9	P/P	10 - 221
2422984	Lambda-Cyhalothrin	105	119	P/P	23 - 190
2422984	Methoprene	80.9	76.1	P/P	21 - 109
2422984	Methoxychlor	74.7	77.7	P/P	46 - 118
2422984	MGK-264	79.4	81.5	P/P	39 - 122
2422984	Mirex	43.4	64.7	P/P	25 - 90.0
2422984	Oxychlordane	95.3	89.1	P/P	42 - 100
2422984	Permethrin	87.4	109	P/P	33 - 181
2422984	Phenothrin	78.4	76.9	P/P	12 - 125
2422984	Piperonyl Butoxide	83.5	87.4	P/P	10 - 178
2422984	Prallethrin	77.1	73.9	P/P	24 - 122

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P432363

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422984	Tau-Fluvalinate	110	118	P/P	13 - 151
2422984	Tetramethrin	91.0	98.2	P/P	16 - 172
2422984	Trans-Nonachlor	70.5	72.5	P/P	39 - 100
2422984	Triclosan Methyl	76.0	83.4	P/P	43 - 110
2422984	Trifluralin	66.6	66.3	P/P	45 - 94.0
2423116	PCB-1016	47.1	46.9	P/P	45 - 107
2423116	PCB-1260	40.5	45.2	P/P	40 - 112

Reference Method: EPA 8276
Batch ID: P432363

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423116	Chlordane	48.3	53.2	P/P	43 - 123
2423116	Toxaphene	52.3	61.6	P/P	27 - 156

Reference Method: EPA 8321B
Batch ID: P432236

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421664	2,4-D	81.0	89.8	P/P	40 - 150
2421664	2,4,5-T	101	94.0	P/P	40 - 150
2421664	Acetaminophen	66.6	64.0	P/P	30 - 150
2421664	Acetamiprid	62.4	61.8	P/P	40 - 150
2421664	Afidopyropen	62.5	65.2	P/P	30 - 150
2421664	Benzovindiflupyr	77.1	79.8	P/P	40 - 150
2421664	Carbamazepine	50.2	49.1	P/P	40 - 150
2421664	Clothianidin	77.5	75.2	P/P	40 - 150
2421664	Dinotefuran	79.0	73.2	P/P	40 - 150
2421664	Diuron	31.8	34.4	F/F	40 - 150
2421664	Fenuron	65.9	63.8	P/P	40 - 150
2421664	Hydrocodone	65.5	62.3	P/P	40 - 150
2421664	Ibuprofen	66.1	56.4	P/P	40 - 150
2421664	Imidacloprid	110	106	P/P	40 - 150
2421664	Linuron	57.5	54.7	P/P	40 - 150
2421664	Mandestrobin	83.7	81.6	P/P	40 - 150
2421664	MCPP	99.3	103	P/P	40 - 150
2421664	Naproxen	96.0	98.4	P/P	40 - 150
2421664	Primidone	76.2	73.4	P/P	40 - 150
2421664	Pyraclostrobin	80.3	79.6	P/P	40 - 150
2421664	Silvex	88.9	83.2	P/P	40 - 150
2421664	Thiamethoxam	56.7	55.3	P/P	40 - 150
2421664	Tolfenpyrad	48.5	47.3	P/P	30 - 150
2421664	Triclopyr	102	91.5	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P432281

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421699	Acesulfame K	110	113	P/P	40 - 150
2421699	AMPA	136	124	P/P	40 - 150
2421699	Endothall	74.5	71.9	P/P	40 - 150
2421699	Glufosinate	124	143	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P432281

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421699	Glyphosate	124	123	P/P	40 - 150
2421699	Sucralose	94.8	98.2	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P432316

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421698	3-Hydroxycarbofuran	73.9	57.1	P/P	40 - 150
2421698	Aldicarb	71.7	50.4	P/P	30 - 150
2421698	Aldicarb Sulfone	76.2	82.6	P/P	40 - 150
2421698	Aldicarb Sulfoxide	38.6	40.0	F/P	40 - 150
2421698	Carbaryl	56.7	68.2	P/P	40 - 150
2421698	Carbofuran	73.9	73.4	P/P	40 - 150
2421698	Methiocarb	66.6	78.9	P/P	40 - 150
2421698	Methomyl	78.9	78.1	P/P	40 - 150
2421698	Oxamyl	78.8	83.9	P/P	40 - 150
2421698	Propoxur	68.5	75.1	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P432496

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422819	Fluoride	104	104	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P432395

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422043	Organic Carbon	93.3	94.4	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P432536

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423320	Organic Carbon	95.2	96.4	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P432308

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422648	Color (true)	1.61	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P432311

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422685	Color (true)	7.74	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P432302

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422648	Turbidity	0.604	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P432361

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422210	Calcium	0.621	Spike	P	0 - 20
2422210	Iron	0.639	Spike	P	0 - 20
2422210	Magnesium	0.568	Spike	P	0 - 20
2422210	Potassium	0.0469	Spike	P	0 - 20
2422210	Sodium	0.00131	Spike	P	0 - 20
2422210	Strontium	0.224	Spike	P	0 - 20
2422210	Tin	1.97	Spike	P	0 - 20
2422210	Titanium	0.545	Spike	P	0 - 20
2422210	Vanadium	0.140	Spike	P	0 - 20
2422210	Zinc	0.867	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P432361

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422210	Antimony	8.95	Spike	P	0 - 20
2422210	Arsenic	9.09	Spike	P	0 - 20
2422210	Barium	6.79	Spike	P	0 - 20
2422210	Beryllium	7.12	Spike	P	0 - 20
2422210	Boron	8.13	Spike	P	0 - 20
2422210	Cadmium	8.34	Spike	P	0 - 20
2422210	Chromium	9.60	Spike	P	0 - 20
2422210	Cobalt	9.47	Spike	P	0 - 20
2422210	Copper	10.4	Spike	P	0 - 20
2422210	Lead	8.87	Spike	P	0 - 20
2422210	Manganese	4.11	Spike	P	0 - 20
2422210	Molybdenum	8.84	Spike	P	0 - 20
2422210	Nickel	9.48	Spike	P	0 - 20
2422210	Selenium	6.13	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P432361

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422210	Thallium	8.21	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P432512

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421707	Silver	6.34	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P432700

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2424324	Aluminum	0.139	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432486

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422760	Chloride	1.23	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432424

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422404	Ammonia-N	1.61	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432567

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423284	Ammonia-N	3.89	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432755

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422406	Kjeldahl Nitrogen	3.14	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432532

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422406	NO2NO3-N	0.943	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P432397

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421629	Total-P	0.608	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P432162

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421978	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	5.18	Spike	P	0 - 37
2421978	Acetochlor	3.52	Spike	P	0 - 28
2421978	Alachlor	10.4	Spike	P	0 - 30
2421978	Ametryn	19.2	Spike	P	0 - 32
2421978	Atrazine	2.39	Spike	P	0 - 41
2421978	Atrazine Desethyl	11.7	Spike	P	0 - 36
2421978	Avobenzone	0.248	Spike	P	0 - 36
2421978	Azinphos Methyl	0.799	Spike	P	0 - 75
2421978	Azoxystrobin	0.00846	Spike	P	0 - 39
2421978	Bromacil	1.19	Spike	P	0 - 33
2421978	Butylate	21.5	Spike	P	0 - 44
2421978	Caffeine	6.33	Spike	P	0 - 74
2421978	Carbophenothion	32.5	Spike	F	0 - 25
2421978	Carfentrazone Ethyl	25.9	Spike	P	0 - 27
2421978	Chlorfenapyr	9.32	Spike	P	0 - 24
2421978	Chlorpyrifos Ethyl	0.593	Spike	P	0 - 26
2421978	Chlorpyrifos Methyl	23.1	Spike	P	0 - 26
2421978	Coumaphos	4.94	Spike	P	0 - 28
2421978	Cyanazine	12.4	Spike	P	0 - 48
2421978	Cyprodinil	26.9	Spike	P	0 - 29
2421978	Dechlorane 602	12.2	Spike	P	0 - 30
2421978	Dechlorane 603	2.54	Spike	P	0 - 30
2421978	Dechlorane Plus	1.60	Spike	P	0 - 30
2421978	Demeton	11.7	Spike	P	0 - 33
2421978	Diazinon	10.4	Spike	P	0 - 29
2421978	Difenoconazole	3.04	Spike	P	0 - 34
2421978	Dimethenamid	7.14	Spike	P	0 - 39
2421978	Dimethomorph	8.40	Spike	P	0 - 51
2421978	Disulfoton	6.29	Spike	P	0 - 30
2421978	Dithiopyr	0.956	Spike	P	0 - 26
2421978	EPTC	22.1	Spike	P	0 - 43
2421978	Ethion	20.4	Spike	P	0 - 79
2421978	Ethoprop	0.695	Spike	P	0 - 29
2421978	Etridiazole	4.54	Spike	P	0 - 33
2421978	Fenamiphos	4.83	Spike	P	0 - 40
2421978	Fenbuconazole	4.21	Spike	P	0 - 74
2421978	Fipronil	24.1	Spike	P	0 - 29
2421978	Fipronil Desulfinyl	25.3	Spike	P	0 - 32
2421978	Fipronil Sulfide	25.4	Spike	P	0 - 30
2421978	Fipronil Sulfone	32.9	Spike	P	0 - 33
2421978	Fluazifop-P-butyl	37.6	Spike	P	0 - 38
2421978	Fludioxonil	28.4	Spike	P	0 - 29
2421978	Flumioxazin	13.4	Spike	P	0 - 51
2421978	Flutolanil	21.4	Spike	P	0 - 25

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P432162

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421978	Fluxapyroxad	7.31	Spike	P	0 - 45
2421978	Fonofos	9.94	Spike	P	0 - 27
2421978	Hexabromobenzene	2.32	Spike	P	0 - 30
2421978	Hexazinone	0.337	Spike	P	0 - 30
2421978	Imazalil	11.4	Spike	P	0 - 100
2421978	Iprodione	0.499	Spike	P	0 - 33
2421978	Loratadine	1.90	Spike	P	0 - 56
2421978	Malathion	15.9	Spike	P	0 - 37
2421978	Metalaxyl	9.92	Spike	P	0 - 40
2421978	Metolachlor	14.1	Spike	P	0 - 29
2421978	Metribuzin	1.38	Spike	P	0 - 45
2421978	Mevinphos	0.668	Spike	P	0 - 29
2421978	Molinate	22.5	Spike	P	0 - 33
2421978	Myclobutanil	0.331	Spike	P	0 - 26
2421978	Naled	3.66	Spike	P	0 - 37
2421978	Napropamide	36.9	Spike	P	0 - 44
2421978	Norflurazon	6.12	Spike	P	0 - 30
2421978	Octinoxate	1.99	Spike	P	0 - 45
2421978	Oxadiazon	3.39	Spike	P	0 - 28
2421978	Oxybenzone	0.149	Spike	P	0 - 46
2421978	Oxyfluorfen	20.0	Spike	P	0 - 28
2421978	Parathion Ethyl	18.7	Spike	P	0 - 31
2421978	Parathion Methyl	27.2	Spike	P	0 - 29
2421978	PBB-153	4.77	Spike	P	0 - 30
2421978	PBDE-47	6.40	Spike	P	0 - 36
2421978	PBDE-99	6.73	Spike	P	0 - 40
2421978	Pendimethalin	26.0	Spike	P	0 - 33
2421978	Pentabromotoluene	2.47	Spike	P	0 - 30
2421978	Phenytoin	5.48	Spike	P	0 - 100
2421978	Phorate	12.8	Spike	P	0 - 36
2421978	Prodiamine	4.90	Spike	P	0 - 71
2421978	Prometon	6.71	Spike	P	0 - 36
2421978	Prometryn	22.7	Spike	P	0 - 28
2421978	Pronamide	4.77	Spike	P	0 - 24
2421978	Propanil	12.9	Spike	P	0 - 28
2421978	Propargite	17.6	Spike	P	0 - 43
2421978	Propiconazole	12.6	Spike	P	0 - 33
2421978	Pyraflufen Ethyl	12.5	Spike	P	0 - 29
2421978	Pyridaben	18.4	Spike	P	0 - 30
2421978	Pyriproxyfen	19.8	Spike	P	0 - 79
2421978	Simazine	11.3	Spike	P	0 - 29
2421978	Stirophos	58.4	Spike	P	0 - 61
2421978	Sulfentrazone	0.346	Spike	P	0 - 33
2421978	Tebuconazole	10.6	Spike	P	0 - 69
2421978	Terbufos	0.896	Spike	P	0 - 29
2421978	Terbutylazine	17.5	Spike	P	0 - 32
2421978	Tetradecachloro-m-terphenyl	9.08	Spike	P	0 - 30
2421978	Thiobencarb	4.91	Spike	P	0 - 26
2421978	Tri-o-cresyl Phosphate	2.53	Spike	P	0 - 33
2421978	Triadimefon	1.49	Spike	P	0 - 28
2421978	Tris(1-chloro-2-propyl) phosphate (TCPP)	0.0282	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P432162

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421978	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	1.10	Spike	P	0 - 30
2421978	Tris(2-chloroethyl) phosphate (TCEP)	6.71	Spike	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P432363

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422984	Aldrin	2.65	Spike	P	0 - 41
2422984	Alpha-BHC	9.24	Spike	P	0 - 25
2422984	Alpha-Chlordane	1.80	Spike	P	0 - 32
2422984	Beta-BHC	0.345	Spike	P	0 - 33
2422984	Beta-Cyfluthrin	7.41	Spike	P	0 - 43
2422984	Bifenthrin	18.8	Spike	P	0 - 52
2422984	Chlorothalonil	7.91	Spike	P	0 - 82
2422984	Cis-Nonachlor	4.29	Spike	P	0 - 33
2422984	Cypermethrin	11.6	Spike	P	0 - 51
2422984	Dacthal	6.30	Spike	P	0 - 27
2422984	DDD-p,p'	0.312	Spike	P	0 - 39
2422984	DDE-p,p'	2.20	Spike	P	0 - 31
2422984	DDT-p,p'	10.2	Spike	P	0 - 29
2422984	Delta-BHC	10.9	Spike	P	0 - 35
2422984	Deltamethrin	1.95	Spike	P	0 - 100
2422984	Dichlobenil	0.838	Spike	P	0 - 40
2422984	Dicofol	10.5	Spike	P	0 - 37
2422984	Dieldrin	9.86	Spike	P	0 - 27
2422984	Endosulfan I	11.3	Spike	P	0 - 23
2422984	Endosulfan II	4.85	Spike	P	0 - 34
2422984	Endosulfan Sulfate	1.76	Spike	P	0 - 36
2422984	Endrin	8.53	Spike	P	0 - 45
2422984	Endrin Aldehyde	4.80	Spike	P	0 - 76
2422984	Endrin Ketone	10.4	Spike	P	0 - 43
2422984	Esfenvalerate	8.46	Spike	P	0 - 51
2422984	Ethalfuralin	0.682	Spike	P	0 - 22
2422984	Fenpropathrin	8.76	Spike	P	0 - 49
2422984	Gamma-BHC	4.23	Spike	P	0 - 28
2422984	Gamma-Chlordane	0.521	Spike	P	0 - 40
2422984	Heptachlor	2.64	Spike	P	0 - 29
2422984	Heptachlor Epoxide	2.86	Spike	P	0 - 33
2422984	Hexachlorobenzene	1.74	Spike	P	0 - 36
2422984	Kepone	5.18	Spike	P	0 - 85
2422984	Lambda-Cyhalothrin	12.9	Spike	P	0 - 55
2422984	Methoprene	6.09	Spike	P	0 - 53
2422984	Methoxychlor	3.88	Spike	P	0 - 50
2422984	MGK-264	2.71	Spike	P	0 - 43
2422984	Mirex	39.4	Spike	P	0 - 40
2422984	Oxychlordane	6.75	Spike	P	0 - 31
2422984	Permethrin	22.0	Spike	P	0 - 50
2422984	Phenothrin	2.03	Spike	P	0 - 58
2422984	Piperonyl Butoxide	4.10	Spike	P	0 - 100
2422984	Prallethrin	4.27	Spike	P	0 - 39

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P432363

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422984	Tau-Fluvalinate	7.08	Spike	P	0 - 54
2422984	Tetramethrin	7.62	Spike	P	0 - 51
2422984	Trans-Nonachlor	2.78	Spike	P	0 - 39
2422984	Triclosan Methyl	9.25	Spike	P	0 - 31
2422984	Trifluralin	0.522	Spike	P	0 - 22
2423116	PCB-1016	0.506	Spike	P	0 - 25
2423116	PCB-1260	10.9	Spike	P	0 - 30

Reference Method: EPA 8276

Batch ID: P432363

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423116	Chlordane	9.72	Spike	P	0 - 28
2423116	Toxaphene	16.3	Spike	P	0 - 27

Reference Method: EPA 8321B

Batch ID: P432236

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421664	2,4-D	6.91	Spike	P	0 - 30
2421664	2,4,5-T	7.63	Spike	P	0 - 30
2421664	Acetaminophen	3.97	Spike	P	0 - 30
2421664	Acetamiprid	0.884	Spike	P	0 - 30
2421664	Afidopyropen	4.14	Spike	P	0 - 30
2421664	Bentazon	10.5	Spike	P	0 - 30
2421664	Benzovindiflupyr	3.42	Spike	P	0 - 30
2421664	Carbamazepine	1.74	Spike	P	0 - 30
2421664	Clothianidin	2.80	Spike	P	0 - 30
2421664	Dinotefuran	6.98	Spike	P	0 - 30
2421664	Diuron	6.69	Spike	P	0 - 30
2421664	Fenuron	3.32	Spike	P	0 - 30
2421664	Fluridone	3.71	Spike	P	0 - 30
2421664	Hydrocodone	5.12	Spike	P	0 - 30
2421664	Ibuprofen	15.8	Spike	P	0 - 30
2421664	Imazapyr	4.16	Spike	P	0 - 30
2421664	Imidacloprid	3.58	Spike	P	0 - 30
2421664	Linuron	4.93	Spike	P	0 - 30
2421664	Mandestrobin	2.53	Spike	P	0 - 30
2421664	MCPP	3.44	Spike	P	0 - 30
2421664	Naproxen	2.47	Spike	P	0 - 30
2421664	Primidone	3.28	Spike	P	0 - 30
2421664	Pyraclostrobin	0.854	Spike	P	0 - 30
2421664	Silvex	6.71	Spike	P	0 - 30
2421664	Thiamethoxam	2.02	Spike	P	0 - 30
2421664	Tolfenpyrad	2.54	Spike	P	0 - 30
2421664	Triclopyr	10.5	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P432281

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421699	Acesulfame K	3.03	Spike	P	0 - 30
2421699	AMPA	9.17	Spike	P	0 - 30
2421699	Endothall	3.45	Spike	P	0 - 30
2421699	Glufosinate	13.7	Spike	P	0 - 30
2421699	Glyphosate	0.793	Spike	P	0 - 30
2421699	Sucralose	3.42	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P432316

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421698	3-Hydroxycarbofuran	25.7	Spike	P	0 - 30
2421698	Aldicarb	34.9	Spike	F	0 - 30
2421698	Aldicarb Sulfone	8.00	Spike	P	0 - 30
2421698	Aldicarb Sulfoxide	3.51	Spike	P	0 - 30
2421698	Carbaryl	18.4	Spike	P	0 - 30
2421698	Carbofuran	0.695	Spike	P	0 - 30
2421698	Methiocarb	16.8	Spike	P	0 - 30
2421698	Methomyl	0.926	Spike	P	0 - 30
2421698	Oxamyl	6.24	Spike	P	0 - 30
2421698	Propoxur	9.26	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P432714

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422819	Total Alkalinity	0.0853	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P432583

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422403	TDS	4.26	Sample	P	0 - 10

Reference Method: SM 2540 D-2015
Batch ID: P432537

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422403	TSS	0.0	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P432496

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422819	Fluoride	0.0	Spike	P	0 - 1.9

Quality Assurance Report
Precision

Reference Method: SM 5310 B-2011
Batch ID: P432395

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422043	Organic Carbon	0.787	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P432536

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423320	Organic Carbon	0.790	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2422658
Field Sample ID: G5SE0091

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	42.3	P	30 - 160

Lab Sample ID: 2422659
Field Sample ID: G5SE0091

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	87.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	61.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	49.2	P	30 - 160
EPA 8321B	Diuron-d6	45.6	P	30 - 160
EPA 8321B	Endothall-d6	115	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	108	P	30 - 160
EPA 8321B	Ibuprofen-d3	59.3	P	30 - 160
EPA 8321B	Primidone-d5	65.9	P	30 - 160
EPA 8321B	Sucralose-d6	117	P	30 - 160

Lab Sample ID: 2422660
Field Sample ID: G5SE0091

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	87.2	P	37 - 129
EPA 8270E	Decachlorobiphenyl	89.4	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	55.6	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	64.2	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	58.7	P	28 - 102
EPA 8276	PCNB	98.6	P	49 - 115

Lab Sample ID: 2422661
Field Sample ID: G5SE0091

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	84.7	P	20 - 200
EPA 8270E	Simazine-d10	99.6	P	62 - 142
EPA 8270E	Terbufos-d10	92.6	P	58 - 132
EPA 8270E	Terphenyl-d14	76.4	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A120291

Included Lab Sample IDs: 2422648, 2422650, 2422652

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

Reference Method: DEP SOP: NU-094-1

Run ID: A120294

Included Lab Sample IDs: 2422648, 2422650, 2422652

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	90 - 110
Color (true)	102	102	P/P	90 - 110
Color (true)	99.8	101	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A120300

Included Lab Sample IDs: 2422648, 2422650, 2422652

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	103	P/P	90 - 110
Sulfate	98.7	101	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A120301

Included Lab Sample IDs: 2422659

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	102	100	P/P	60 - 160
Endothall	74.6	78.7	P/P	60 - 160
Glufosinate	118	112	P/P	60 - 160
Glyphosate	127	131	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A120302

Included Lab Sample IDs: 2422659

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	126	138	P/P	60 - 160
Sucralose	90.7	101	P/P	60 - 160

Reference Method: SM 5310 B-2011

Run ID: A120338

Included Lab Sample IDs: 2422649, 2422651

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.8	97.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A120349

Included Lab Sample IDs: 2422653

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.6	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A120358

Included Lab Sample IDs: 2422662, 2422663

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	100	96.2	P/P	95 - 105
Calcium	99.0	99.0	P/P	90 - 110
Iron	101	96.8	P/P	95 - 105
Iron	99.3	101	P/P	90 - 110
Magnesium	101	96.0	P/P	95 - 105
Magnesium	98.4	100	P/P	90 - 110
Potassium	98.6	100	P/P	90 - 110
Potassium	99.8	96.2	P/P	95 - 105
Sodium	100	100	P/P	90 - 110
Sodium	98.7	96.2	P/P	95 - 105
Strontium	101	102	P/P	90 - 110
Strontium	98.8	100	P/P	95 - 105
Tin	97.3	100	P/P	90 - 110
Tin	97.9	97.8	P/P	95 - 105
Titanium	97.3	97.9	P/P	95 - 105
Titanium	97.7	99.6	P/P	90 - 110
Vanadium	96.8	98.8	P/P	90 - 110
Vanadium	97.0	97.3	P/P	95 - 105
Zinc	98.0	100	P/P	90 - 110
Zinc	98.9	99.6	P/P	95 - 105

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A120363

Included Lab Sample IDs: 2422662, 2422663

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Antimony	100	101	P/P	90 - 110
Antimony	99.8	100	P/P	90 - 110
Arsenic	101	99.8	P/P	90 - 110
Arsenic	99.8	97.6	P/P	90 - 110
Barium	101	99.9	P/P	90 - 110
Barium	99.9	101	P/P	90 - 110
Beryllium	98.0	97.4	P/P	90 - 110
Beryllium	99.2	98.0	P/P	90 - 110
Boron	96.9	98.1	P/P	90 - 110
Boron	98.1	99.9	P/P	90 - 110
Cadmium	100	101	P/P	90 - 110
Cadmium	98.9	100	P/P	90 - 110
Chromium	97.3	98.2	P/P	90 - 110
Chromium	98.0	97.3	P/P	90 - 110
Cobalt	96.6	94.7	P/P	90 - 110
Cobalt	98.5	96.6	P/P	90 - 110
Copper	97.0	95.1	P/P	90 - 110
Copper	98.9	97.0	P/P	90 - 110
Lead	91.3	91.7	P/P	90 - 110
Lead	91.7	91.9	P/P	90 - 110
Manganese	97.6	98.6	P/P	90 - 110
Manganese	98.6	97.6	P/P	90 - 110
Molybdenum	98.9	98.1	P/P	90 - 110
Molybdenum	99.1	98.9	P/P	90 - 110
Nickel	97.0	95.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A120363

Included Lab Sample IDs: 2422662, 2422663

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Nickel	99.1	97.0	P/P	90 - 110
Selenium	99.7	101	P/P	90 - 110
Selenium	99.9	99.7	P/P	90 - 110
Thallium	100	99.5	P/P	90 - 110
Thallium	99.2	100	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A120380

Included Lab Sample IDs: 2422661

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	99.3		P	80 - 120
Avobenzene	94.2		P	80 - 120
Dechlorane 602	99.7		P	80 - 120
Dechlorane 603	98.7		P	80 - 120
Dechlorane Plus	89.8		P	80 - 120
Hexabromobenzene	94.8		P	80 - 120
Octinoxate	92.5		P	80 - 120
Oxybenzone	96.3		P	80 - 120
PBB-153	97.9		P	80 - 120
PBDE-47	95.6		P	80 - 120
PBDE-99	99.1		P	80 - 120
Pentabromotoluene	94.3		P	80 - 120
Tetradecachloro-m-terphenyl	92.4		P	80 - 120
Tri-o-cresyl Phosphate	98.4		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	83.7		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	94.2		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	94.8		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A120381

Included Lab Sample IDs: 2422649, 2422651

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	104	P/P	90 - 110
Total-P	104	101	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A120384

Included Lab Sample IDs: 2422648, 2422650, 2422652

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A120389

Included Lab Sample IDs: 2422653

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A120406

Included Lab Sample IDs: 2422649, 2422651, 2422653

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	105	106	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A120408

Included Lab Sample IDs: 2422653

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.3	98.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A120426

Included Lab Sample IDs: 2422649, 2422651

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	98.8	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A120441

Included Lab Sample IDs: 2422662, 2422663

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Silver	103	97.8	P/P	90 - 110
Silver	99.0	99.4	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A120445

Included Lab Sample IDs: 2422659

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	96.3	91.7	P/P	50 - 150
2,4,5-T	92.3	92.7	P/P	50 - 150
3-Hydroxycarbofuran	107	106	P/P	60 - 150
Acetaminophen	87.0	84.8	P/P	60 - 160
Acetamiprid	105	116	P/P	50 - 150
Afidopyropen	130	119	P/P	50 - 150
Aldicarb	111	112	P/P	60 - 150
Aldicarb Sulfone	108	102	P/P	50 - 150
Aldicarb Sulfoxide	112	105	P/P	50 - 150
Bentazon	142	139	P/P	50 - 160
Benzovindiflupyr	108	116	P/P	50 - 150
Carbamazepine	115	117	P/P	60 - 150
Carbaryl	121	123	P/P	60 - 150
Carbofuran	115	115	P/P	50 - 150
Clothianidin	111	97.8	P/P	60 - 150
Dinotefuran	121	113	P/P	50 - 150
Diuron	132	120	P/P	60 - 160
Fenuron	110	109	P/P	60 - 150
Fluridone	118	110	P/P	60 - 160
Hydrocodone	116	115	P/P	60 - 150
Ibuprofen	113	88.2	P/P	50 - 160
Imazapyr	96.8	93.0	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A120445
Included Lab Sample IDs: 2422659

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Imidacloprid	105	103	P/P	60 - 150
Linuron	107	112	P/P	60 - 150
Mandestrobin	111	114	P/P	50 - 150
MCPP	101	92.8	P/P	50 - 150
Methiocarb	131	123	P/P	50 - 150
Methomyl	108	107	P/P	50 - 150
Naproxen	129	109	P/P	50 - 160
Oxamyl	109	106	P/P	50 - 150
Primidone	100	106	P/P	60 - 150
Propoxur	111	110	P/P	50 - 150
Pyraclostrobin	117	118	P/P	60 - 150
Silvex	103	104	P/P	50 - 150
Thiamethoxam	94.7	93.0	P/P	50 - 150
Tolfenpyrad	108	106	P/P	60 - 150
Triclopyr	112	90.0	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A120483
Included Lab Sample IDs: 2422661

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	94.2		P	80 - 120
Alachlor	91.0		P	80 - 120
Ametryn	109		P	80 - 120
Atrazine Desethyl	104		P	80 - 120
Azinphos Methyl	95.3		P	80 - 120
Azoxystrobin	99.0		P	80 - 120
Bromacil	101		P	80 - 120
Butylate	100		P	80 - 120
Caffeine	97.6		P	80 - 120
Carbophenothion	104		P	80 - 120
Carfentrazone Ethyl	103		P	80 - 120
Chlorfenapyr	102		P	80 - 120
Chlorpyrifos Ethyl	92.2		P	80 - 120
Chlorpyrifos Methyl	101		P	80 - 120
Coumaphos	105		P	80 - 120
Cyanazine	97.1		P	80 - 120
Cyprodinil	99.6		P	80 - 120
Demeton	97.0		P	80 - 120
Diazinon	101		P	80 - 120
Difenoconazole	107		P	80 - 120
Dimethenamid	102		P	80 - 120
Dimethomorph	112		P	80 - 120
Disulfoton	107		P	80 - 120
Dithiopyr	100		P	80 - 120
EPTC	98.5		P	80 - 120
Ethion	92.5		P	80 - 120
Ethoprop	98.5		P	80 - 120
Etridiazole	100		P	80 - 120
Fenamiphos	94.2		P	80 - 120
Fenbuconazole	53.3*		F	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A120483
 Included Lab Sample IDs: 2422661

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fipronil	89.3		P	80 - 120
Fipronil Desulfinyl	98.9		P	80 - 120
Fipronil Sulfide	103		P	80 - 120
Fipronil Sulfone	110		P	80 - 120
Fluazifop-P-butyl	109		P	80 - 120
Fludioxonil	96.0		P	80 - 120
Flumioxazin	113		P	80 - 120
Flutolanil	105		P	80 - 120
Fluxapyroxad	108		P	80 - 120
Fonofos	96.5		P	80 - 120
Hexazinone	99.9		P	80 - 120
Imazalil	108		P	80 - 120
Iprodione	88.1		P	80 - 120
Loratadine	112		P	80 - 120
Malathion	86.4		P	80 - 120
Metalaxyl	89.7		P	80 - 120
Metolachlor	99.3		P	80 - 120
Metribuzin	100		P	80 - 120
Mevinphos	90.9		P	80 - 120
Molinate	85.1		P	80 - 120
Myclobutanil	91.5		P	80 - 120
Naled	100		P	80 - 120
Napropamide	113		P	80 - 120
Norflurazon	104		P	80 - 120
Oxadiazon	107		P	80 - 120
Oxyfluorfen	106		P	80 - 120
Parathion Ethyl	92.6		P	80 - 120
Parathion Methyl	90.6		P	80 - 120
Pendimethalin	92.5		P	80 - 120
Phenytol	93.1		P	80 - 120
Phorate	101		P	80 - 120
Prodiamine	97.8		P	80 - 120
Prometon	112		P	80 - 120
Prometryn	98.1		P	80 - 120
Pronamide	103		P	80 - 120
Propanil	102		P	80 - 120
Propargite	103		P	80 - 120
Pyraflufen Ethyl	108		P	80 - 120
Pyridaben	111		P	80 - 120
Pyriproxyfen	101		P	80 - 120
Simazine	82.8		P	80 - 120
Stirophos	90.5		P	80 - 120
Sulfentrazone	106		P	80 - 120
Tebuconazole	105		P	80 - 120
Terbufos	101		P	80 - 120
Terbutylazine	89.9		P	80 - 120
Thiobencarb	101		P	80 - 120
Triadimefon	108		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A120485
Included Lab Sample IDs: 2422661

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	102		P	80 - 120
Propiconazole	80.4		P	80 - 120

Reference Method: EPA 8270E
Run ID: A120491
Included Lab Sample IDs: 2422660

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	103		P	80 - 120
Alpha-BHC	100		P	80 - 120
Alpha-Chlordane	100		P	80 - 120
Beta-BHC	104		P	80 - 120
Beta-Cyfluthrin	99.6		P	80 - 120
Bifenthrin	100		P	80 - 120
Chlorothalonil	95.8		P	80 - 120
Cis-Nonachlor	98.5		P	80 - 120
Cypermethrin	99.3		P	80 - 120
Dacthal	101		P	80 - 120
DDD-p,p'	105		P	80 - 120
DDE-p,p'	101		P	80 - 120
DDT-p,p'	97.7		P	80 - 120
Delta-BHC	93.4		P	80 - 120
Deltamethrin	99.0		P	80 - 120
Dichlobenil	102		P	80 - 120
Dicofol	93.4		P	80 - 120
Dieldrin	99.1		P	80 - 120
Endosulfan I	94.9		P	80 - 120
Endosulfan II	106		P	80 - 120
Endosulfan Sulfate	107		P	80 - 120
Endrin	100		P	80 - 120
Endrin Aldehyde	91.6		P	80 - 120
Endrin Ketone	101		P	80 - 120
Esfenvalerate	97.1		P	80 - 120
Ethalfuralin	96.2		P	80 - 120
Fenpropathrin	99.1		P	80 - 120
Gamma-BHC	102		P	80 - 120
Gamma-Chlordane	101		P	80 - 120
Heptachlor	98.6		P	80 - 120
Heptachlor Epoxide	97.4		P	80 - 120
Hexachlorobenzene	100		P	80 - 120
Kepone	70.9*		F	80 - 120
Lambda-Cyhalothrin	110		P	80 - 120
Methoprene	100		P	80 - 120
Methoxychlor	103		P	80 - 120
MGK-264	98.7		P	80 - 120
Mirex	103		P	80 - 120
Oxychlordane	101		P	80 - 120
Permethrin	98.9		P	80 - 120
Phenothrin	99.9		P	80 - 120
Piperonyl Butoxide	84.6		P	80 - 120
Prallethrin	99.6		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A120491
Included Lab Sample IDs: 2422660

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tau-Fluvalinate	95.1		P	80 - 120
Tetramethrin	96.3		P	80 - 120
Trans-Nonachlor	100		P	80 - 120
Triclosan Methyl	95.0		P	80 - 120
Trifluralin	96.1		P	80 - 120

Reference Method: SM 2320 B-2011
Run ID: A120497
Included Lab Sample IDs: 2422648, 2422650, 2422652

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	94.5	95.1	P/P	90 - 110
Total Alkalinity	95.1	93.2	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A120510
Included Lab Sample IDs: 2422660

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	98.5		P	80 - 120
PCB-1260	97.3		P	80 - 120

Reference Method: EPA 8276
Run ID: A120521
Included Lab Sample IDs: 2422660

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	102		P	80 - 120
Toxaphene	97.7		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A120540
Included Lab Sample IDs: 2422662, 2422663

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.4	97.0	P/P	90 - 110
Aluminum	99.2	98.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A120578
Included Lab Sample IDs: 2422649, 2422651, 2422653

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

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision SMP	MS
			LCS				
DEP SOP: NU-094-1	Color (true)	100				1.61	
	Color (true)	103				7.74	
EPA 180.1 Rev. 2.0	Turbidity	100				0.604	
EPA 200.7 Rev. 4.4	Calcium	99.0	100	101			0.621
	Iron	101	101	99.7	98.9		0.639
	Magnesium	101	102	101	102		0.568
	Potassium	101	99.8	99.9	98.5		0.0469
	Sodium	100	100	101			0.0013
	Strontium	97.7	99.1	98.9	97.6		0.224
	Tin	98.7	101	99.1	97.5		1.97
	Titanium	97.3	98.0	97.5	90.5		0.545
	Vanadium	96.6	98.8	98.7	97.4		0.140
	Zinc	97.6	101	99.9	99.1		0.867
	Aluminum	98.4	95.9	96.0	99.3		0.139
	Antimony	101	101	111	98.8		8.95
	Arsenic	100	100	110	97.4		9.09
	Barium	103	103	113	102		6.79
EPA 200.8 Rev. 5.4	Beryllium	100	97.2	105	94.8		7.12
	Boron	102	103	114	104		8.13
	Cadmium	99.3	100	109	98.7		8.34
	Chromium	95.0	97.3	107	94.7		9.60
	Cobalt	98.4	97.1	107	94.9		9.47
	Copper	98.2	99.5	110	95.8		10.4
	Lead	92.6	93.4	102	91.8		8.87
	Manganese	97.1	96.1	106	93.1		4.11
	Molybdenum	99.1	99.2	108	95.7		8.84
	Nickel	98.6	99.2	109	97.9		9.48
	Selenium	102	102	109	96.0		6.13
	Silver	98.3	99.3	106	103		6.34
	Thallium	100	104	113	101		8.21
	Chloride	102	100	102		1.23	
	Sulfate	97.6	98.0	98.1			
	Ammonia-N	97.6	97.6	99.4			1.61
	Ammonia-N	98.2	93.8	98.4			3.89
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	107	100	106			3.14
EPA 353.2 Rev. 2.0	NO2NO3-N	106	106	106			0.943
EPA 365.1 Rev. 2.0	Total-P	95.8	98.5	97.8			0.608
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	80.8	115	109			5.18
	Acetochlor	95.7	95.6	92.3			3.52
	Alachlor	106	102	92.3			10.4
	Aldrin	66.5	52.2	53.6			2.65
	Alpha-BHC	81.9	74.0	81.2			9.24
	Alpha-Chlordane	85.2	74.0	75.3			1.80
	Ametryn	115	103	125			19.2
	Atrazine	87.8					2.39
	Atrazine Desethyl	80.9	88.6	78.8			11.7
	Avobenzone	106	138	137			0.248
	Azinphos Methyl	89.9	117	118			0.799
	Azoxystrobin	97.6	125	125			0.0084
	Beta-BHC	94.9	80.5	80.8			0.345
	Beta-Cyfluthrin	82.3	73.4	79.0			7.41
	Bifenthrin	75.5	80.5	97.2			18.8

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Bromacil	104	107	108			1.19
	Butylate	59.1	62.7	50.5			21.5
	Caffeine	132	100	108			6.33
	Carbophenothion	116	127	91.3			32.5
	Carfentrazone Ethyl	118	137	106			25.9
	Chlorfenapyr	111	104	94.5			9.32
	Chlorothalonil	87.7	99.3	108			7.91
	Chlorpyrifos Ethyl	99.0	81.9	82.4			0.593
	Chlorpyrifos Methyl	93.8	92.2	73.1			23.1
	Cis-Nonachlor	81.9	61.0	63.7			4.29
	Coumaphos	121	135	142			4.94
	Cyanazine	144	148	131			12.4
	Cypermethrin	118	86.0	96.6			11.6
	Cyprodinil	102	99.7	76.1			26.9
	Dacthal	89.7	80.2	85.4			6.30
	DDD-p,p'	78.1	65.2	65.0			0.312
	DDE-p,p'	83.0	60.5	61.9			2.20
	DDT-p,p'	102	98.4	109			10.2
	Dechlorane 602	57.6	76.0	67.3			12.2
	Dechlorane 603	95.1	116	119			2.54
	Dechlorane Plus	78.6	74.9	73.7			1.60
	Delta-BHC	89.7	93.1	104			10.9
	Deltamethrin	112	100	98.2			1.95
	Demeton	68.5	81.5	72.5			11.7
	Diazinon	102	99.8	89.9			10.4
	Dichlobenil	70.2	42.0	42.3			0.838
	Dicofol	73.2	69.8	77.6			10.5
	Dieldrin	85.2	72.7	80.2			9.86
	Difenoconazole	83.3	137	142			3.04
	Dimethenamid	84.6	88.6	82.5			7.14
	Dimethomorph	157	248	269			8.40
	Disulfoton	99.3	99.9	93.8			6.29
	Dithiopyr	99.6	95.9	94.9			0.956
	Endosulfan I	90.5	80.2	89.8			11.3
	Endosulfan II	75.3	57.8	55.1			4.85
	Endosulfan Sulfate	90.7	61.6	62.7			1.76
	Endrin	82.7	58.0	63.2			8.53
	Endrin Aldehyde	63.7	38.7	36.9			4.80
	Endrin Ketone	98.0	77.7	70.0			10.4
	EPTC	51.5	57.6	46.1			22.1
	Esfenvalerate	117	101	110			8.46
	Ethalfuralin	75.7	70.1	70.6			0.682
	Ethion	59.8	57.5	70.6			20.4
	Ethoprop	80.0	87.5	86.9			0.695
	Etridiazole	62.6	64.7	61.8			4.54
	Fenamiphos	109	99.4	94.7			4.83
	Fenbuconazole	33.2	47.6	49.6			4.21
	Fenpropathrin	84.3	75.8	82.8			8.76
	Fipronil	98.5	98.5	77.3			24.1
	Fipronil Desulfanyl	108	93.0	70.8			25.3
	Fipronil Sulfide	96.8	96.4	73.8			25.4
	Fipronil Sulfone	116	111	77.2			32.9
	Fluazifop-P-butyl	128	115	78.2			37.6
	Fludioxonil	84.1	84.6	63.6			28.4

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Flumioxazin	123	195	223			13.4
	Flutolanil	87.1	90.8	73.3			21.4
	Fluxapyroxad	94.0	115	107			7.31
	Fonofos	80.3	79.6	72.0			9.94
	Gamma-BHC	96.3	110	105			4.23
	Gamma-Chlordane	85.8	81.1	81.5			0.521
	Heptachlor	84.9	88.4	90.7			2.64
	Heptachlor Epoxide	92.0	84.6	87.0			2.86
	Hexabromobenzene	96.3	117	114			2.32
	Hexachlorobenzene	81.7	77.1	75.7			1.74
	Hexazinone	90.3	89.6	89.9			0.337
	Imazalil	122	103	92.3			11.4
	Iprodione	96.8	101	101			0.499
	Kepone	62.5	32.5	30.9			5.18
	Lambda-Cyhalothrin	111	105	119			12.9
	Loratadine	141	233	229			1.90
	Malathion	91.9	78.2	91.8			15.9
	Metalaxyl	90.5	73.0	81.7			9.92
	Methoprene	81.7	80.9	76.1			6.09
	Methoxychlor	78.0	74.7	77.7			3.88
	Metolachlor	100	82.2	104			14.1
	Metribuzin	88.1	99.4	101			1.38
	Mevinphos	63.3	74.1	74.6			0.668
	MGK-264	93.2	79.4	81.5			2.71
	Mirex	78.5	43.4	64.7			39.4
	Molinate	59.1	49.3	61.8			22.5
	Myclobutanil	98.8	99.5	99.2			0.331
	Naled	37.5	38.7	37.3			3.66
	Napropamide	93.6	59.9	87.0			36.9
	Norflurazon	100	99.0	105			6.12
	Octinoxate	92.7	109	107			1.99
	Oxadiazon	86.7	90.1	84.8			3.39
	Oxybenzone	95.5	105	105			0.149
	Oxychlordane	88.6	95.3	89.1			6.75
	Oxyfluorfen	136	105	129			20.0
	Parathion Ethyl	83.3	112	93.2			18.7
	Parathion Methyl	119	99.1	130			27.2
	PBB-153	92.9	125	131			4.77
	PBDE-47	83.2	104	97.4			6.40
	PBDE-99	75.5	100	93.6			6.73
	PCB-1016	80.2	47.1	46.9			0.506
	PCB-1260	95.5	40.5	45.2			10.9
	Pendimethalin	86.0	74.2	96.5			26.0
	Pentabromotoluene	82.0	101	98.9			2.47
	Permethrin	103	87.4	109			22.0
	Phenothrin	71.1	78.4	76.9			2.03
	Phenytol	22.8	30.9	29.2			5.48
	Phorate	74.2	69.0	78.4			12.8
	Piperonyl Butoxide	99.1	83.5	87.4			4.10
	Prallethrin	87.6	77.1	73.9			4.27
	Prodiamine	32.8	35.8	37.6			4.90
	Prometon	71.1	121	110			6.71
	Prometryn	104	80.6	101			22.7
	Pronamide	117	123	118			4.77

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Propanil	117	125	110			12.9
	Propargite	64.7	79.6	66.7			17.6
	Propiconazole	71.0	69.6	80.9			12.6
	Pyraflufen Ethyl	114	105	119			12.5
	Pyridaben	90.2	139	116			18.4
	Pyriproxyfen	69.4	98.8	81.1			19.8
	Simazine	82.2	59.5	73.6			11.3
	Stirophos	69.3	19.3	35.2			58.4
	Sulfentrazone	67.5	115	115			0.346
	Tau-Fluvalinate	110	110	118			7.08
	Tebuconazole	55.0	70.2	61.6			10.6
	Terbufos	106	105	106			0.896
	Terbutylazine	89.7	77.1	91.9			17.5
	Tetradecachloro-m-terphenyl	117	120	131			9.08
	Tetramethrin	95.6	91.0	98.2			7.62
	Thiobencarb	98.2	87.4	91.8			4.91
	Trans-Nonachlor	83.6	70.5	72.5			2.78
	Tri-o-cresyl Phosphate	84.9	110	107			2.53
	Triadimefon	91.5	99.3	97.8			1.49
	Triclosan Methyl	90.3	76.0	83.4			9.25
	Trifluralin	73.5	66.6	66.3			0.522
	Tris(1-chloro-2-propyl) phosphate (TCPP)	88.6	80.2	80.3			0.0282
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	81.3	99.1	98.0			1.10
	Tris(2-chloroethyl) phosphate (TCEP)	85.9	105	98.5			6.71
EPA 8276	Chlordane	91.8	48.3	53.2			9.72
	Toxaphene	95.1	52.3	61.6			16.3
EPA 8321B	2,4-D	92.7	81.0	89.8			6.91
	2,4,5-T	87.2	101	94.0			7.63
	3-Hydroxycarbofuran	71.2	73.9	57.1			25.7
	Acesulfame K	105	110	113			3.03
	Acetaminophen	65.5	66.6	64.0			3.97
	Acetamiprid	73.2	62.4	61.8			0.884
	Afidopyropen	54.3	62.5	65.2			4.14
	Aldicarb	57.6	71.7	50.4			34.9
	Aldicarb Sulfone	88.1	76.2	82.6			8.00
	Aldicarb Sulfoxide	105	38.6	40.0			3.51
	AMPA	80.7	136	124			9.17
	Bentazon	121					10.5
	Benzovindiflupyr	75.6	77.1	79.8			3.42
	Carbamazepine	72.2	50.2	49.1			1.74
	Carbaryl	51.4	56.7	68.2			18.4
	Carbofuran	87.0	73.9	73.4			0.695
	Clothianidin	87.9	77.5	75.2			2.80
	Dinotefuran	95.0	79.0	73.2			6.98
	Diuron	81.8	31.8	34.4			6.69
	Endothall	71.5	74.5	71.9			3.45
	Fenuron	85.3	65.9	63.8			3.32
	Fluridone	82.7					3.71
	Glufosinate	119	124	143			13.7
	Glyphosate	125	124	123			0.793
	Hydrocodone	89.1	65.5	62.3			5.12

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Ibuprofen	67.0	66.1	56.4		15.8
	Imazapyr	76.8				4.16
	Imidacloprid	83.5	110	106		3.58
	Linuron	72.1	57.5	54.7		4.93
	Mandestrobin	88.2	83.7	81.6		2.53
	MCPP	96.6	99.3	103		3.44
	Methiocarb	64.6	66.6	78.9		16.8
	Methomyl	85.6	78.9	78.1		0.926
	Naproxen	68.0	96.0	98.4		2.47
	Oxamyl	89.4	78.8	83.9		6.24
	Primidone	75.6	76.2	73.4		3.28
	Propoxur	80.8	68.5	75.1		9.26
	Pyraclostrobin	68.0	80.3	79.6		0.854
	Silvex	97.7	88.9	83.2		6.71
	Sucralose	89.4	94.8	98.2		3.42
	Thiamethoxam	67.7	56.7	55.3		2.02
	Tolfenpyrad	42.2	48.5	47.3		2.54
	Triclopyr	89.6	102	91.5		10.5
SM 2320 B-2011	Total Alkalinity	97.0			0.0853	
SM 2540 C-2015	TDS	96.9			4.26	
SM 2540 D-2015	TSS	93.2			0.0	
SM 4500-F- C-2011	Fluoride	102	104	104		0.0
SM 5310 B-2011	Organic Carbon	95.4	93.3	94.4		0.787
	Organic Carbon	96.4	95.2	96.4		0.790

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2422648, 2422650, 2422652
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2422648, 2422650, 2422652
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2422662, 2422663
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2422662, 2422663
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2422648, 2422650, 2422652
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2422648, 2422650, 2422652
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2422649, 2422651, 2422653
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2422649, 2422651, 2422653
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2422649, 2422651, 2422653
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2422649, 2422651, 2422653
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2422661
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2422660
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2422661
EPA 8270E	PCBs in water matrices by GC/MS/MS	2422660
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2422660
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2422658
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2422659
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2422648, 2422650, 2422652
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2422662, 2422663
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2422648, 2422650, 2422652
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2422648, 2422650, 2422652
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2422648, 2422650, 2422652

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2422649, 2422651, 2422653

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	07/11/2023			07/11/2023 14:41	Chandler E Cox	2422648
	07/11/2023			07/11/2023 15:11	Chandler E Cox	2422652
	07/11/2023			07/11/2023 15:23	Chandler E Cox	2422650
EPA 180.1 Rev. 2.0	07/11/2023			07/11/2023 13:42	Alexis Price	2422648
	07/11/2023			07/11/2023 13:44	Alexis Price	2422650
	07/11/2023			07/11/2023 13:46	Alexis Price	2422652
EPA 200.7 Rev. 4.4	07/11/2023	07/12/2023 13:10	George D Taylor	07/13/2023 17:13	McKinley C Carter	2422663
	07/11/2023	07/12/2023 13:10	George D Taylor	07/13/2023 20:17	McKinley C Carter	2422662
EPA 200.8 Rev. 5.4	07/11/2023	07/12/2023 13:10	George D Taylor	07/13/2023 13:30	Emily M Philpot	2422663
	07/11/2023	07/12/2023 13:10	George D Taylor	07/13/2023 15:54	Emily M Philpot	2422662
	07/11/2023	07/14/2023 12:55	George D Taylor	07/17/2023 13:06	Conrad Hartmann	2422663
	07/11/2023	07/14/2023 12:55	George D Taylor	07/17/2023 15:42	Conrad Hartmann	2422662
	07/11/2023	07/19/2023 13:40	George D Taylor	07/20/2023 16:03	Conrad Hartmann	2422663
EPA 300.0 Rev. 2.1	07/11/2023	07/19/2023 13:40	George D Taylor	07/20/2023 18:27	Conrad Hartmann	2422662
	07/11/2023			07/13/2023 20:40	James L Waggeberby	2422648
	07/11/2023			07/13/2023 20:55	James L Waggeberby	2422650
	07/11/2023			07/13/2023 21:10	James L Waggeberby	2422652
EPA 350.1 Rev. 2.0	07/11/2023			07/13/2023 13:10	Khloe J Berg	2422653
	07/11/2023			07/17/2023 11:57	Khloe J Berg	2422649
	07/11/2023			07/17/2023 11:59	Khloe J Berg	2422651
EPA 351.2 Rev. 2.0	07/11/2023	07/20/2023 10:58	Dana G. Hughes	07/24/2023 11:28	Samantha L Bates	2422649
	07/11/2023	07/20/2023 10:58	Dana G. Hughes	07/24/2023 11:29	Samantha L Bates	2422651
	07/11/2023	07/20/2023 10:58	Dana G. Hughes	07/24/2023 11:31	Samantha L Bates	2422653
EPA 353.2 Rev. 2.0	07/11/2023			07/13/2023 14:26	Judith K. Clark	2422649
	07/11/2023			07/13/2023 14:27	Judith K. Clark	2422651
	07/11/2023			07/13/2023 14:28	Judith K. Clark	2422653
EPA 365.1 Rev. 2.0	07/11/2023	07/13/2023 16:15	Adam P Silver	07/13/2023 19:58	James L Waggeberby	2422649
	07/11/2023	07/13/2023 16:15	Adam P Silver	07/13/2023 20:01	James L Waggeberby	2422651
	07/11/2023	07/13/2023 16:15	Adam P Silver	07/14/2023 11:39	James L Waggeberby	2422653
EPA 8270E	07/11/2023	07/12/2023 08:00	Fe-Val Siddell	07/14/2023 00:01	Arthur Maknenko	2422661
	07/11/2023	07/12/2023 08:00	Fe-Val Siddell	07/14/2023 21:55	Michael Poppell	2422661
	07/11/2023	07/12/2023 08:00	Fe-Val Siddell	07/18/2023 17:53	Michael Poppell	2422661
	07/11/2023	07/12/2023 08:00	Fe-Val Siddell	07/18/2023 18:22	Michael Poppell	2422661
	07/11/2023	07/14/2023 08:30	Rasheda Ghaffari	07/17/2023 21:31	Michael Poppell	2422660
	07/11/2023	07/14/2023 08:30	Rasheda Ghaffari	07/19/2023 21:07	Lipi Saha	2422660
EPA 8276	07/11/2023	07/14/2023 08:30	Rasheda Ghaffari	07/20/2023 09:10	Arthur Maknenko	2422660
EPA 8321B	07/11/2023	07/11/2023 12:30	Hana Lee	07/11/2023 16:27	Hana Lee	2422659
	07/11/2023	07/11/2023 12:30	Hana Lee	07/11/2023 18:14	Hana Lee	2422659
	07/11/2023	07/11/2023 12:30	Hana Lee	07/12/2023 01:12	Hana Lee	2422659
	07/11/2023	07/12/2023 08:30	Hoor Shaik	07/17/2023 23:49	Juyoung Kim	2422659

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	07/11/2023	07/12/2023 08:30	Hoor Shaik	07/18/2023 18:11	Juyoung Kim	2422659
	07/11/2023	07/12/2023 14:00	Hoor Shaik	07/17/2023 18:29	Juyoung Kim	2422658
SM 2320 B-2011	07/11/2023			07/18/2023 15:44	Dale L. Simmons	2422652
	07/11/2023			07/18/2023 18:01	Dale L. Simmons	2422648
	07/11/2023			07/18/2023 18:26	Dale L. Simmons	2422650
SM 2340 B-2011	07/11/2023			07/13/2023 17:13	McKinley C Carter	2422663
	07/11/2023			07/13/2023 20:17	McKinley C Carter	2422662
SM 2540 C-2015	07/11/2023			07/13/2023 14:00	Dana G. Hughes	2422648, 2422650, 2422652
SM 2540 D-2015	07/11/2023			07/13/2023 14:00	Dana G. Hughes	2422648, 2422650, 2422652
SM 4500-F- C-2011	07/11/2023			07/14/2023 07:27	Dale L. Simmons	2422652
	07/11/2023			07/14/2023 09:49	Dale L. Simmons	2422648
	07/11/2023			07/14/2023 11:03	Dale L. Simmons	2422650
SM 5310 B-2011	07/11/2023			07/13/2023 07:14	Elise M. Gillis	2422649
	07/11/2023			07/13/2023 07:30	Elise M. Gillis	2422651
	07/11/2023			07/15/2023 06:05	Elise M. Gillis	2422653