Chemical Analysis Report

SO-DIST-2023-12-13-01

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

Event Description: **2023 SMP: Felda Boys**
Request ID: **RQ-2023-11-27-21**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 314
Fort Myers, FL 33901-3381
Attn: Nicole Reistad

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

Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant Date Certified: 18-JAN-2024 09:44

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: L 61W **Collection Date/Time: 12/12/2023 10:20**

Field ID: G4SD0194 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2456639	DEP SOP: NU-094-1	Color (true)	230		PCU	P438918	
	EPA 180.1 Rev. 2.0	Turbidity	1.4	A	NTU	P438925	
	EPA 300.0 Rev. 2.1	Chloride	45		mg Cl/L	P439405	
		Sulfate	22		mg SO4/L	P439408	
	SM 2320 B-2011	Total Alkalinity	102		mg CaCO3/L	P439119	
	SM 2540 C-2015	TDS	274	A	mg/L	P439354	
	SM 2540 D-2015	TSS	3	I A	mg/L	P439296	
	SM 4500-F- C-2011	Fluoride	0.13		mg F/L	P439122	
2456640	EPA 350.1 Rev. 2.0	Ammonia-N	0.24		mg N/L	P439216	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.1		mg N/L	P439053	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.030		mg N/L	P439173	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P439045	
	SM 5310 B-2014	Organic Carbon	31		mg C/L	P439101	
2456672	EPA 200.7 Rev. 4.4	Calcium	47.7		mg/L	P438982	
		Iron	800		ug/L	P438982	
		Magnesium	7.62		mg/L	P438982	
		Potassium	5.8		mg/L	P438982	
		Sodium	24.7		mg/L	P438982	
		Strontium	735		ug/L	P438982	
		Tin	3.0	U	ug/L	P438982	
		Titanium	0.75	U	ug/L	P438982	
		Vanadium	2.0	U	ug/L	P438982	
		Zinc	21		ug/L	P438982	
	EPA 200.8 Rev. 5.4	Aluminum	65		ug/L	P438982	
		Antimony	0.066	I	ug/L	P438982	
		Arsenic	1.15		ug/L	P438982	
		Barium	29.3		ug/L	P438982	
		Beryllium	0.019	I	ug/L	P438982	
		Boron	39.9		ug/L	P438982	
		Cadmium	0.020	U	ug/L	P438982	
		Chromium	0.60	I	ug/L	P439271	
		Cobalt	0.152		ug/L	P439271	
		Copper	0.40	U	ug/L	P438982	
		Lead	0.20	U	ug/L	P438982	
		Manganese	18.8		ug/L	P438982	
		Molybdenum	0.83		ug/L	P438982	
		Nickel	0.50	U	ug/L	P438982	
		Selenium	0.20	U	ug/L	P438982	
		Silver	0.010	U	ug/L	P438982	
		Thallium	0.10	U	ug/L	P438982	
	SM 2340 B-2011	Hardness	151		mg/L	P438982	

Field ID: G4SD0194 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes

Ref. Method and Comment:
EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for manganese are unavailable because of high analyte concentration in the QC sample.

Sample Location: Nine Mile Canal at SR 80 **Collection Date/Time: 12/12/2023 11:05**

Field ID: G3SD0088 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2456664	EPA 8270E	Oxybenzone**	10	U	ng/L	P439019	
		Acetochlor	0.21	UJ	ng/L	P439019	LCS
		Octinoxate**	160	UJ	ng/L	P439019	LCS
		Alachlor	0.41	U	ng/L	P439019	
		Avobenzone**	100	U	ng/L	P439019	
		Ametryn	7.5		ng/L	P439019	
		Atrazine	200		ng/L	P439019	
		PBDE-47**	4.1	U	ng/L	P439019	
		Atrazine Desethyl	13	J	ng/L	P439019	CCV
		PBDE-99**	5.2	U	ng/L	P439019	
		Azinphos Methyl	3.1	U	ng/L	P439019	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P439019	
		Azoxystrobin	0.41	U	ng/L	P439019	
		Bromacil	0.62	U	ng/L	P439019	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P439019	
		Butylate	0.47	U	ng/L	P439019	
		Dechlorane Plus**	31	U	ng/L	P439019	
		Caffeine**	7.8	U	ng/L	P439019	
		Dechlorane 602**	5.2	U	ng/L	P439019	
		Carbophenothion	0.52	U	ng/L	P439019	
		Dechlorane 603**	4.1	U	ng/L	P439019	
		Carfentrazone Ethyl	0.16	U	ng/L	P439019	
		Hexabromobenzene**	6.2	U	ng/L	P439019	
		Chlorfenapyr	0.31	U	ng/L	P439019	
		PBB-153**	6.2	U	ng/L	P439019	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P439019	
		Pentabromotoluene**	3.1	U	ng/L	P439019	
		Chlorpyrifos Methyl	0.10	UJ	ng/L	P439019	LCS
		Tris(2-chloroethyl) phosphate (TCEP)**	57	U	ng/L	P439019	
		Coumaphos	1.1	U	ng/L	P439019	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	26	U	ng/L	P439019	
		Cyanazine	5.2	U	ng/L	P439019	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P439019	
		Cyprodinil	0.21	U	ng/L	P439019	
		Tetradecachloro-m-terphenyl**	7.8	U	ng/L	P439019	
		Demeton	3.6	U	ng/L	P439019	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	62	U	ng/L	P439019	
		Diazinon	0.13	UJ	ng/L	P439019	CCV
		Difenoconazole	0.62	U	ng/L	P439019	
		Dimethenamid	0.10	UJ	ng/L	P439019	LCS
		Dimethomorph	0.31	U	ng/L	P439019	
		Disulfoton	0.62	UJ	ng/L	P439019	CCV, LCS, MS

Field ID: G3SD0088 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2456664	EPA 8270E	Dithiopyr	1.0	U	ng/L	P439019	
		EPTC	0.52	U	ng/L	P439019	
		Ethion	0.31	U	ng/L	P439019	
		Ethoprop	0.13	U	ng/L	P439019	
		Etridiazole	0.10	U	ng/L	P439019	
		Fenamiphos	0.47	U	ng/L	P439019	MS
		Fenbuconazole	0.52	U	ng/L	P439019	
		Fipronil	0.21	U	ng/L	P439019	
		Fipronil Desulfinyl**	0.10	U	ng/L	P439019	
		Fipronil Sulfide	0.10	U	ng/L	P439019	MS
		Fipronil Sulfone	0.10	U	ng/L	P439019	
		Fluazifop-P-butyl	0.10	U	ng/L	P439019	
		Fludioxonil	0.10	U	ng/L	P439019	
		Flumioxazin	3.1	U	ng/L	P439019	
		Flutolanil	0.10	U	ng/L	P439019	
		Fluxapyroxad	1.0	I	ng/L	P439019	
		Fonofos	0.16	UJ	ng/L	P439019	CCV, LCS, MS
		Hexazinone	50		ng/L	P439019	
		Imazalil	0.67	U	ng/L	P439019	
		Iprodione	0.52	U	ng/L	P439019	
		Loratadine**	0.31	U	ng/L	P439019	
		Malathion	0.36	U	ng/L	P439019	
		Metalaxyl	0.52	U	ng/L	P439019	
		Metolachlor	9.5		ng/L	P439019	
		Metribuzin	2.3		ng/L	P439019	
		Mevinphos	1.0	U	ng/L	P439019	
		Molinate	0.26	U	ng/L	P439019	
		Myclobutanil	0.36	U	ng/L	P439019	
		Naled	2.6	U	ng/L	P439019	
		Napropamide	0.72	U	ng/L	P439019	
		Norflurazon	5.1	I	ng/L	P439019	
		Oxadiazon	0.36	U	ng/L	P439019	
		Oxyfluorfen	0.21	U	ng/L	P439019	
		Parathion Ethyl	0.16	U	ng/L	P439019	
		Parathion Methyl	0.21	U	ng/L	P439019	
		Pendimethalin	1.8	U	ng/L	P439019	
		Phenytoin**	5.5	U	ng/L	P439019	
		Phorate	0.26	U	ng/L	P439019	
		Prodiamine	0.21	U	ng/L	P439019	
		Prometon	3.1	U	ng/L	P439019	
		Prometryn	0.36	U	ng/L	P439019	
		Pronamide	0.10	UJ	ng/L	P439019	LCS
		Propanil	0.10	U	ng/L	P439019	
		Propargite	0.83	U	ng/L	P439019	

Field ID: G3SD0088 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2456664	EPA 8270E	Propiconazole	0.62	U	ng/L	P439019	
		Pyraflufen Ethyl	0.31	U	ng/L	P439019	
		Pyridaben	1.4	U	ng/L	P439019	
		Pyriproxyfen	0.26	U	ng/L	P439019	
		Simazine	3.2		ng/L	P439019	
		Stirophos	0.41	U	ng/L	P439019	
		Sulfentrazone	1.4	U	ng/L	P439019	
		Tebuconazole	1.4	U	ng/L	P439019	
		Terbufos	0.21	UJ	ng/L	P439019	CCV, MS
		Terbuthylazine	0.21	U	ng/L	P439019	
		Thiobencarb	0.52	U	ng/L	P439019	
		Triadimefon	0.16	U	ng/L	P439019	

Ref. Method and Comment:
EPA 8270E: MS accuracy for TCPP & TDCPP not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. MS precision for disulfoton and fonofos not assessed due to no recoveries. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: TOWNSENDCANALATCHURCHRD **Collection Date/Time: 12/12/2023 12:05**

Field ID: G3SD0221 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2456641	DEP SOP: NU-094-1	Color (true)	92		PCU	P438918	
	EPA 180.1 Rev. 2.0	Turbidity	2.3		NTU	P438925	
	EPA 300.0 Rev. 2.1	Chloride	24		mg Cl/L	P439405	
		Sulfate	17		mg SO4/L	P439408	
	SM 2320 B-2011	Total Alkalinity	157		mg CaCO3/L	P439119	
	SM 2540 C-2015	TDS	244		mg/L	P439354	
	SM 2540 D-2015	TSS	3	I	mg/L	P439296	
	SM 4500-F- C-2011	Fluoride	0.21		mg F/L	P439122	
2456642	EPA 350.1 Rev. 2.0	Ammonia-N	0.018		mg N/L	P439216	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P439053	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	I	mg N/L	P439173	
	EPA 365.1 Rev. 2.0	Total-P	0.12		mg P/L	P439045	
	SM 5310 B-2014	Organic Carbon	19		mg C/L	P439101	
2456659	EPA 8321B	Aldicarb	0.020	U	ug/L	P438952	
		Aldicarb Sulfone	0.0020	U	ug/L	P438952	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P438952	
		Carbaryl	0.0020	U	ug/L	P438952	
		Carbofuran	0.0020	U	ug/L	P438952	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P438952	
		Methiocarb	0.0020	U	ug/L	P438952	
		Methomyl	0.0020	U	ug/L	P438952	
		Oxamyl	0.0020	U	ug/L	P438952	
		Propoxur	0.0020	U	ug/L	P438952	
2456660		2,4-D	0.0020	U	ug/L	P438885	
		Acesulfame K	0.10	U	ug/L	P438838	
		2,4,5-T	0.0040	U	ug/L	P438885	
		AMPA	0.60		ug/L	P438838	
		Acetaminophen	0.0080	U	ug/L	P438885	
		Acetamiprid	0.0020	U	ug/L	P438885	
		Endothall	0.25	U	ug/L	P438838	
		Glufosinate	0.10	U	ug/L	P438838	
		Glyphosate	0.94		ug/L	P438838	
		Afidopyropen	0.0020	U	ug/L	P438885	
		Bentazon	8.0E-04	U	ug/L	P438885	
		Sucralose	0.010	U	ug/L	P438838	
		Benzovindiflupyr	0.0020	U	ug/L	P438885	
		Carbamazepine	8.0E-04	U	ug/L	P438885	
		Clothianidin	0.0076	I	ug/L	P438885	
		Dinotefuran	0.0072	I	ug/L	P438885	
		Diuron	0.0020	U	ug/L	P438885	
		Fenuron	0.032	U	ug/L	P438885	
		Fluridone	8.0E-04	U	ug/L	P438885	
		Imazapyr	0.36		ug/L	P438885	
		Hydrocodone	0.0020	U	ug/L	P438885	

Field ID: G3SD0221 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2456660	EPA 8321B	Ibuprofen	0.080	U	ug/L	P438885	
		Imidacloprid	0.055		ug/L	P438885	
		Linuron	0.0040	U	ug/L	P438885	
		Mandestrobin	0.0020	U	ug/L	P438885	
		MCPP	0.0020	U	ug/L	P438885	
		Naproxen	0.0080	U	ug/L	P438885	
		Primidone	0.0040	U	ug/L	P438885	
		Pyraclostrobin	0.0020	U	ug/L	P438885	
		Silvex	0.0040	U	ug/L	P438885	
		Thiamethoxam	0.0047	I	ug/L	P438885	
		Tolfenpyrad	0.0020	U	ug/L	P438885	
		Triclopyr	0.0040	U	ug/L	P438885	
2456665	EPA 8270E	Aldrin	0.67	U	ng/L	P438882	
		Alpha-BHC	0.10	U	ng/L	P438882	
		Alpha-Chlordane	0.21	U	ng/L	P438882	
		PCB-1016	2.1	U	ng/L	P438882	
		Beta-BHC	0.10	U	ng/L	P438882	
		PCB-1221	2.1	U	ng/L	P438882	
		Beta-Cyfluthrin	1.3	U	ng/L	P438882	
		PCB-1232	2.1	U	ng/L	P438882	
		Bifenthrin	0.52	U	ng/L	P438882	
		PCB-1242	2.1	U	ng/L	P438882	
		PCB-1248	2.1	U	ng/L	P438882	
		Chlorothalonil	3.7	U	ng/L	P438882	
		PCB-1254	2.1	U	ng/L	P438882	
		Cis-Nonachlor	0.21	U	ng/L	P438882	
		PCB-1260	2.1	U	ng/L	P438882	
		Cypermethrin	1.6	U	ng/L	P438882	
		Dacthal	0.16	U	ng/L	P438882	
		DDD-p,p'	0.26	U	ng/L	P438882	
		DDE-p,p'	0.21	U	ng/L	P438882	
		DDT-p,p'	0.83	U	ng/L	P438882	
		Delta-BHC	0.41	U	ng/L	P438882	
		Deltamethrin	1.3	U	ng/L	P438882	
		Dichlobenil	0.26	U	ng/L	P438882	MS, RPD
		Dicofol	1.3	U	ng/L	P438882	
		Dieldrin	0.41	U	ng/L	P438882	
		Endosulfan I	0.41	U	ng/L	P438882	
		Endosulfan II	0.93	U	ng/L	P438882	
		Endosulfan Sulfate	0.31	U	ng/L	P438882	
		Endrin	0.93	U	ng/L	P438882	
		Endrin Aldehyde	0.78	U	ng/L	P438882	
		Endrin Ketone	0.41	U	ng/L	P438882	
		Esfenvalerate	0.78	U	ng/L	P438882	
		Ethalfluralin	0.16	U	ng/L	P438882	

Field ID: G3SD0221 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2456665	EPA 8270E	Fenpropathrin	0.26	U	ng/L	P438882	
		Gamma-BHC	0.13	U	ng/L	P438882	
		Gamma-Chlordane	0.21	U	ng/L	P438882	
		Heptachlor	0.21	U	ng/L	P438882	
		Heptachlor Epoxide	0.26	U	ng/L	P438882	
		Hexachlorobenzene**	1.0	U	ng/L	P438882	
		Kepone	14	U	ng/L	P438882	
		Lambda-Cyhalothrin	0.78	U	ng/L	P438882	
		Methoprene	0.78	U	ng/L	P438882	
		Methoxychlor	0.31	U	ng/L	P438882	
		MGK-264	0.21	U	ng/L	P438882	
		Mirex	0.36	U	ng/L	P438882	
		Oxychlordane	0.31	U	ng/L	P438882	
		Permethrin	1.7	U	ng/L	P438882	
		Phenothrin	0.93	U	ng/L	P438882	
		Piperonyl Butoxide	0.16	U	ng/L	P438882	
		Prallethrin	2.1	U	ng/L	P438882	
		Tau-Fluvalinate	0.26	U	ng/L	P438882	
		Tetramethrin	0.78	U	ng/L	P438882	
		Trans-Nonachlor	0.21	U	ng/L	P438882	
		Triclosan Methyl	0.16	U	ng/L	P438882	
		Trifluralin	0.21	U	ng/L	P438882	
	EPA 8276	Chlordane	2.1	U	ng/L	P438882	
		Toxaphene	16	U	ng/L	P438882	
2456666	EPA 8270E	Oxybenzone**	10	U	ng/L	P439019	
		Acetochlor	0.21	UJ	ng/L	P439019	LCS
		Octinoxate**	150	UJ	ng/L	P439019	LCS
		Alachlor	0.41	U	ng/L	P439019	
		Avobenzone**	100	U	ng/L	P439019	
		Ametryn	1.1	U	ng/L	P439019	
		Atrazine	2.5		ng/L	P439019	
		PBDE-47**	4.1	U	ng/L	P439019	
		Atrazine Desethyl	1.3	UJ	ng/L	P439019	CCV
		PBDE-99**	5.1	U	ng/L	P439019	
		Azinphos Methyl	3.1	U	ng/L	P439019	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P439019	
		Azoxystrobin	0.41	U	ng/L	P439019	
		Bromacil	16		ng/L	P439019	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P439019	
		Butylate	0.46	U	ng/L	P439019	
		Dechlorane Plus**	31	U	ng/L	P439019	
		Caffeine**	7.7	U	ng/L	P439019	
		Dechlorane 602**	5.1	U	ng/L	P439019	
		Carbophenothion	0.51	U	ng/L	P439019	

Field ID: G3SD0221 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2456666	EPA 8270E	Dechlorane 603**	4.1	U	ng/L	P439019	
		Carfentrazone Ethyl	0.15	U	ng/L	P439019	
		Hexabromobenzene**	6.2	U	ng/L	P439019	
		Chlorfenapyr	0.31	U	ng/L	P439019	
		PBB-153**	6.2	U	ng/L	P439019	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P439019	
		Pentabromotoluene**	3.1	U	ng/L	P439019	
		Chlorpyrifos Methyl	0.10	UJ	ng/L	P439019	LCS
		Tris(2-chloroethyl) phosphate (TCEP)**	57	U	ng/L	P439019	
		Coumaphos	1.1	U	ng/L	P439019	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	26	U	ng/L	P439019	
		Cyanazine	5.1	U	ng/L	P439019	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P439019	
		Cyprodinil	1.9		ng/L	P439019	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P439019	
		Demeton	3.6	U	ng/L	P439019	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	62	U	ng/L	P439019	
		Diazinon	0.13	UJ	ng/L	P439019	CCV
		Difenoconazole	1.7	I	ng/L	P439019	
		Dimethenamid	0.10	UJ	ng/L	P439019	LCS
		Dimethomorph	0.31	U	ng/L	P439019	
		Disulfoton	0.62	UJ	ng/L	P439019	CCV, LCS, MS
		Dithiopyr	1.0	U	ng/L	P439019	
		EPTC	0.51	U	ng/L	P439019	
		Ethion	0.31	U	ng/L	P439019	
		Ethoprop	0.13	U	ng/L	P439019	
		Etridiazole	0.10	U	ng/L	P439019	
		Fenamiphos	0.46	U	ng/L	P439019	MS
		Fenbuconazole	0.51	U	ng/L	P439019	
		Fipronil	0.21	U	ng/L	P439019	
		Fipronil Desulfinyl**	0.10	U	ng/L	P439019	
		Fipronil Sulfide	0.10	U	ng/L	P439019	MS
		Fipronil Sulfone	0.10	U	ng/L	P439019	
		Fluazifop-P-butyl	0.10	U	ng/L	P439019	
		Fludioxonil	0.39	I	ng/L	P439019	
		Flumioxazin	3.1	U	ng/L	P439019	
		Flutolanil	0.10	U	ng/L	P439019	
		Fluxapyroxad	5.2		ng/L	P439019	
		Fonofos	0.15	UJ	ng/L	P439019	CCV, LCS, MS
		Hexazinone	17		ng/L	P439019	
		Imazalil	0.67	U	ng/L	P439019	
		Iprodione	0.51	U	ng/L	P439019	
		Loratadine**	0.31	U	ng/L	P439019	

Field ID: G3SD0221 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2456666	EPA 8270E	Malathion	0.36	U	ng/L	P439019	
		Metalaxyl	8.2	J	ng/L	P439019	
		Metolachlor	1.8	I	ng/L	P439019	
		Metribuzin	0.41	U	ng/L	P439019	
		Mevinphos	1.0	U	ng/L	P439019	
		Molinate	0.26	U	ng/L	P439019	
		Myclobutanil	0.36	U	ng/L	P439019	
		Naled	2.6	U	ng/L	P439019	
		Napropamide	0.72	U	ng/L	P439019	
		Norflurazon	140		ng/L	P439019	
		Oxadiazon	0.36	U	ng/L	P439019	
		Oxyfluorfen	0.21	U	ng/L	P439019	
		Parathion Ethyl	0.15	U	ng/L	P439019	
		Parathion Methyl	0.21	U	ng/L	P439019	
		Pendimethalin	1.7	U	ng/L	P439019	
		Phenytoin**	5.5	U	ng/L	P439019	
		Phorate	0.26	U	ng/L	P439019	
		Prodiamine	0.21	U	ng/L	P439019	
		Prometon	3.1	U	ng/L	P439019	
		Prometryn	0.36	U	ng/L	P439019	
		Pronamide	0.10	UJ	ng/L	P439019	LCS
		Propanil	0.10	U	ng/L	P439019	
		Propargite	0.82	U	ng/L	P439019	
		Propiconazole	0.62	U	ng/L	P439019	
		Pyraflufen Ethyl	0.31	U	ng/L	P439019	
		Pyridaben	1.4	U	ng/L	P439019	
		Pyriproxyfen	0.26	U	ng/L	P439019	
		Simazine	0.26	U	ng/L	P439019	
		Stirophos	0.41	U	ng/L	P439019	
		Sulfentrazone	1.4	U	ng/L	P439019	
		Tebuconazole	1.4	U	ng/L	P439019	
		Terbufos	0.21	UJ	ng/L	P439019	CCV, MS
		Terbuthylazine	0.21	U	ng/L	P439019	
		Thiobencarb	0.51	U	ng/L	P439019	
		Triadimefon	0.15	U	ng/L	P439019	
2456673	EPA 200.7 Rev. 4.4	Calcium	69.8		mg/L	P438982	
		Iron	670		ug/L	P438982	
		Magnesium	6.18		mg/L	P438982	
		Potassium	6.4		mg/L	P438982	
		Sodium	13.7		mg/L	P438982	
		Strontium	206		ug/L	P438982	
		Tin	3.0	U	ug/L	P438982	
		Titanium	0.75	U	ug/L	P438982	
		Vanadium	2.9	I	ug/L	P438982	
		Zinc	15	I	ug/L	P438982	

Field ID: G3SD0221 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2456673	EPA 200.8 Rev. 5.4	Aluminum	31		ug/L	P438982	
		Antimony	0.38		ug/L	P438982	
		Arsenic	0.89		ug/L	P438982	
		Barium	21.7		ug/L	P438982	
		Beryllium	0.015	I	ug/L	P438982	
		Boron	47.9		ug/L	P438982	
		Cadmium	0.020	U	ug/L	P438982	
		Chromium	1.2	I	ug/L	P439271	
		Cobalt	0.158		ug/L	P439271	
		Copper	0.65	I	ug/L	P438982	
		Lead	0.20	U	ug/L	P438982	
		Manganese	9.93		ug/L	P438982	
		Molybdenum	0.68		ug/L	P438982	
		Nickel	1.2	I	ug/L	P439271	
		Selenium	0.21	I	ug/L	P438982	
		Silver	0.010	U	ug/L	P438982	
		Thallium	0.10	U	ug/L	P438982	
	SM 2340 B-2011	Hardness	200		mg/L	P438982	

Ref. Method and Comment:
EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8270E: MS accuracy for alpha-chlordane, heptachlor epoxide and dieldrin not assessed due to high content of these parameters in the sample spiked.
EPA 8270E: MS accuracy for TCPP & TDCPP not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. MS precision for disulfoton and fonofos not assessed due to no recoveries. Estimation for metalaxyl due to second source standard recovery failure. Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for manganese are unavailable because of high analyte concentration in the QC sample.

Sample Location: FB **Collection Date/Time: 12/12/2023 12:25**

Field ID: FB_12122023 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2456662	EPA 8321B	Aldicarb	0.020	U	ug/L	P438952	
		Aldicarb Sulfone	0.0020	U	ug/L	P438952	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P438952	
		Carbaryl	0.0020	U	ug/L	P438952	
		Carbofuran	0.0020	U	ug/L	P438952	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P438952	
		Methiocarb	0.0020	U	ug/L	P438952	
		Methomyl	0.0020	U	ug/L	P438952	
		Oxamyl	0.0020	U	ug/L	P438952	
		Propoxur	0.0020	U	ug/L	P438952	
2456663		2,4-D	0.0020	U	ug/L	P438885	
		Acesulfame K	0.10	U	ug/L	P438838	
		2,4,5-T	0.0040	U	ug/L	P438885	
		AMPA	0.10	U	ug/L	P438838	
		Acetaminophen	0.0080	U	ug/L	P438885	
		Acetamiprid	0.0020	U	ug/L	P438885	
		Endothall	0.25	U	ug/L	P438838	
		Glufosinate	0.10	U	ug/L	P438838	
		Glyphosate	0.10	U	ug/L	P438838	
		Afidopyropen	0.0020	U	ug/L	P438885	
		Bentazon	8.0E-04	U	ug/L	P438885	
		Sucralose	0.010	U	ug/L	P438838	
		Benzovindiflupyr	0.0020	U	ug/L	P438885	
		Carbamazepine	8.0E-04	U	ug/L	P438885	
		Clothianidin	0.0020	U	ug/L	P438885	
		Dinotefuran	0.0020	U	ug/L	P438885	
		Diuron	0.0020	U	ug/L	P438885	
		Fenuron	0.032	U	ug/L	P438885	
		Fluridone	8.0E-04	U	ug/L	P438885	
		Imazapyr	0.0040	U	ug/L	P438885	
		Hydrocodone	0.0020	U	ug/L	P438885	
		Ibuprofen	0.080	U	ug/L	P438885	
		Imidacloprid	0.0020	U	ug/L	P438885	
		Linuron	0.0040	U	ug/L	P438885	
		Mandestrobin	0.0020	U	ug/L	P438885	
		MCPP	0.0020	U	ug/L	P438885	
		Naproxen	0.0080	U	ug/L	P438885	
		Primidone	0.0040	U	ug/L	P438885	
		Pyraclostrobin	0.0020	U	ug/L	P438885	
		Silvex	0.0040	U	ug/L	P438885	
		Thiamethoxam	0.0020	U	ug/L	P438885	
		Tolfenpyrad	0.0020	U	ug/L	P438885	
		Triclopyr	0.0040	U	ug/L	P438885	
2456668	EPA 8270E	Aldrin	0.67	U	ng/L	P438882	

Field ID: FB_12122023 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2456668	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P438882	
		Alpha-Chlordane	0.21	U	ng/L	P438882	
		PCB-1016	2.1	U	ng/L	P438882	
		Beta-BHC	0.10	U	ng/L	P438882	
		PCB-1221	2.1	U	ng/L	P438882	
		Beta-Cyfluthrin	1.3	U	ng/L	P438882	
		PCB-1232	2.1	U	ng/L	P438882	
		Bifenthrin	0.52	U	ng/L	P438882	
		PCB-1242	2.1	U	ng/L	P438882	
		PCB-1248	2.1	U	ng/L	P438882	
		Chlorothalonil	3.7	U	ng/L	P438882	
		PCB-1254	2.1	U	ng/L	P438882	
		Cis-Nonachlor	0.21	U	ng/L	P438882	
		PCB-1260	2.1	U	ng/L	P438882	
		Cypermethrin	1.5	U	ng/L	P438882	
		Dacthal	0.15	U	ng/L	P438882	
		DDD-p,p'	0.26	U	ng/L	P438882	
		DDE-p,p'	0.21	U	ng/L	P438882	
		DDT-p,p'	0.83	U	ng/L	P438882	
		Delta-BHC	0.41	U	ng/L	P438882	
		Deltamethrin	1.3	U	ng/L	P438882	
		Dichlobenil	0.26	U	ng/L	P438882	MS, RPD
		Dicofol	1.3	U	ng/L	P438882	
		Dieldrin	0.41	U	ng/L	P438882	
		Endosulfan I	0.41	U	ng/L	P438882	
		Endosulfan II	0.93	U	ng/L	P438882	
		Endosulfan Sulfate	0.31	U	ng/L	P438882	
		Endrin	0.93	U	ng/L	P438882	
		Endrin Aldehyde	0.77	U	ng/L	P438882	
		Endrin Ketone	0.41	U	ng/L	P438882	
		Esfenvalerate	0.77	U	ng/L	P438882	
		Ethalfluralin	0.15	U	ng/L	P438882	
		Fenpropathrin	0.26	U	ng/L	P438882	
		Gamma-BHC	0.13	U	ng/L	P438882	
		Gamma-Chlordane	0.21	U	ng/L	P438882	
		Heptachlor	0.21	U	ng/L	P438882	
		Heptachlor Epoxide	0.26	U	ng/L	P438882	
		Hexachlorobenzene**	1.0	U	ng/L	P438882	
		Kepone	14	U	ng/L	P438882	
		Lambda-Cyhalothrin	0.77	U	ng/L	P438882	
		Methoprene	0.77	U	ng/L	P438882	
		Methoxychlor	0.31	U	ng/L	P438882	
		MGK-264	0.21	U	ng/L	P438882	
		Mirex	0.36	U	ng/L	P438882	
		Oxychlordane	0.31	U	ng/L	P438882	

Field ID: FB_12122023 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2456668	EPA 8270E	Permethrin	1.7	U	ng/L	P438882	
		Phenothrin	0.93	U	ng/L	P438882	
		Piperonyl Butoxide	0.49	I	ng/L	P438882	
		Prallethrin	2.1	U	ng/L	P438882	
		Tau-Fluvalinate	0.26	U	ng/L	P438882	
		Tetramethrin	0.77	U	ng/L	P438882	
		Trans-Nonachlor	0.21	U	ng/L	P438882	
		Triclosan Methyl	0.15	U	ng/L	P438882	
		Trifluralin	0.21	U	ng/L	P438882	
	EPA 8276	Chlordane	2.1	U	ng/L	P438882	
		Toxaphene	15	U	ng/L	P438882	
2456669	EPA 8270E	Oxybenzone**	10	UQ	ng/L	P439744	
		Acetochlor	0.20	UJ	ng/L	P439019	LCS
		Octinoxate**	150	UJ	ng/L	P439019	LCS
		Alachlor	0.40	U	ng/L	P439019	
		Avobenzone**	100	U	ng/L	P439019	
		Ametryn	1.1	U	ng/L	P439019	
		Atrazine	0.20	U	ng/L	P439019	
		PBDE-47**	4.0	U	ng/L	P439019	
		Atrazine Desethyl	1.3	UJ	ng/L	P439019	CCV
		PBDE-99**	5.0	U	ng/L	P439019	
		Azinphos Methyl	3.0	U	ng/L	P439019	
		Tri-o-cresyl Phosphate**	6.0	U	ng/L	P439019	
		Azoxystrobin	0.40	U	ng/L	P439019	
		Bromacil	0.60	U	ng/L	P439019	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P439019	
		Butylate	0.45	U	ng/L	P439019	
		Dechlorane Plus**	30	U	ng/L	P439019	
		Caffeine**	7.5	U	ng/L	P439019	
		Dechlorane 602**	5.0	U	ng/L	P439019	
		Carbophenothion	0.50	U	ng/L	P439019	
		Dechlorane 603**	4.0	U	ng/L	P439019	
		Carfentrazone Ethyl	0.15	U	ng/L	P439019	
		Hexabromobenzene**	6.0	U	ng/L	P439019	
		Chlorfenapyr	0.30	U	ng/L	P439019	
		PBB-153**	6.0	U	ng/L	P439019	
		Chlorpyrifos Ethyl	0.30	U	ng/L	P439019	
		Pentabromotoluene**	3.0	U	ng/L	P439019	
		Chlorpyrifos Methyl	0.10	UJ	ng/L	P439019	LCS
		Tris(2-chloroethyl) phosphate (TCEP)**	55	U	ng/L	P439019	
		Coumaphos	1.0	U	ng/L	P439019	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	25	U	ng/L	P439019	
		Cyanazine	5.0	U	ng/L	P439019	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	UQ	ng/L	P439744	

Field ID: FB_12122023 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2456669	EPA 8270E	Cyprodinil	0.20	U	ng/L	P439019	
		Tetradecachloro-m-terphenyl**	7.5	U	ng/L	P439019	
		Demeton	3.5	U	ng/L	P439019	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	60	U	ng/L	P439019	
		Diazinon	0.12	UJ	ng/L	P439019	CCV
		Difenoconazole	0.60	U	ng/L	P439019	
		Dimethenamid	0.10	UJ	ng/L	P439019	LCS
		Dimethomorph	0.30	U	ng/L	P439019	
		Disulfoton	0.60	UJ	ng/L	P439019	CCV, LCS, MS
		Dithiopyr	1.0	U	ng/L	P439019	
		EPTC	0.50	U	ng/L	P439019	
		Ethion	0.30	U	ng/L	P439019	
		Ethoprop	0.12	U	ng/L	P439019	
		Etridiazole	0.10	U	ng/L	P439019	
		Fenamiphos	0.45	U	ng/L	P439019	MS
		Fenbuconazole	0.50	U	ng/L	P439019	
		Fipronil	0.20	U	ng/L	P439019	
		Fipronil Desulfinyl**	0.10	U	ng/L	P439019	
		Fipronil Sulfide	0.10	U	ng/L	P439019	MS
		Fipronil Sulfone	0.10	U	ng/L	P439019	
		Fluazifop-P-butyl	0.10	U	ng/L	P439019	
		Fludioxonil	0.10	U	ng/L	P439019	
		Flumioxazin	3.0	U	ng/L	P439019	
		Flutolanil	0.10	U	ng/L	P439019	
		Fluxapyroxad	0.25	U	ng/L	P439019	
		Fonofos	0.15	UJ	ng/L	P439019	CCV, LCS, MS
		Hexazinone	0.50	U	ng/L	P439019	
		Imazalil	0.65	U	ng/L	P439019	
		Iprodione	0.50	U	ng/L	P439019	
		Loratadine**	0.30	U	ng/L	P439019	
		Malathion	0.35	U	ng/L	P439019	
		Metalaxyl	0.50	U	ng/L	P439019	
		Metolachlor	0.75	U	ng/L	P439019	
		Metribuzin	0.40	U	ng/L	P439019	
		Mevinphos	1.0	U	ng/L	P439019	
		Molinate	0.25	U	ng/L	P439019	
		Myclobutanil	0.35	U	ng/L	P439019	
		Naled	2.5	U	ng/L	P439019	
		Napropamide	0.70	U	ng/L	P439019	
		Norflurazon	1.0	U	ng/L	P439019	
		Oxadiazon	0.35	U	ng/L	P439019	
		Oxyfluorfen	0.20	U	ng/L	P439019	
		Parathion Ethyl	0.15	U	ng/L	P439019	
		Parathion Methyl	0.20	U	ng/L	P439019	

Field ID: FB_12122023 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2456669	EPA 8270E	Pendimethalin	1.7	U	ng/L	P439019	
		Phenytoin**	5.3	U	ng/L	P439019	
		Phorate	0.25	U	ng/L	P439019	
		Prodiamine	0.20	U	ng/L	P439019	
		Prometon	3.0	U	ng/L	P439019	
		Prometryn	0.35	U	ng/L	P439019	
		Pronamide	0.10	UJ	ng/L	P439019	LCS
		Propanil	0.10	U	ng/L	P439019	
		Propargite	0.80	U	ng/L	P439019	
		Propiconazole	0.60	U	ng/L	P439019	
		Pyraflufen Ethyl	0.30	U	ng/L	P439019	
		Pyridaben	1.4	U	ng/L	P439019	
		Pyriproxyfen	0.25	U	ng/L	P439019	
		Simazine	0.25	U	ng/L	P439019	
		Stirophos	0.40	U	ng/L	P439019	
		Sulfentrazone	1.4	U	ng/L	P439019	
		Tebuconazole	1.4	U	ng/L	P439019	
		Terbufos	0.20	UJ	ng/L	P439019	CCV, MS
		Terbuthylazine	0.20	U	ng/L	P439019	
		Thiobencarb	0.50	U	ng/L	P439019	
		Triadimefon	0.15	U	ng/L	P439019	

Ref. Method and Comment:
EPA 8270E: MS accuracy for alpha-chlordane, heptachlor epoxide and dieldrin not assessed due to high content of these parameters in the sample spiked. Result confirmed by re-extraction.
EPA 8270E: Sample expired for preparation for oxybenzone and TDCPP due to need for re-extraction. MS accuracy for TCPP 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.
EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. MS precision for disulfoton and fonofos not assessed due to no recoveries. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Cow Slough **Collection Date/Time: 12/12/2023 13:05**

Field ID: IMKFSHCK Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2456661	EPA 8321B	2,4-D	0.013		ug/L	P438885	
		Acesulfame K	0.10	U	ug/L	P438838	
		2,4,5-T	0.0040	U	ug/L	P438885	
		AMPA	0.41		ug/L	P438838	
		Acetaminophen	0.0080	U	ug/L	P438885	
		Acetamiprid	0.0020	U	ug/L	P438885	
		Endothall	0.25	U	ug/L	P438838	
		Glufosinate	0.10	U	ug/L	P438838	
		Glyphosate	0.47		ug/L	P438838	
		Afidopyropen	0.0020	U	ug/L	P438885	
		Bentazon	8.0E-04	U	ug/L	P438885	
		Sucralose	0.014	I	ug/L	P438838	
		Benzovindiflupyr	0.0020	U	ug/L	P438885	
		Carbamazepine	8.0E-04	U	ug/L	P438885	
		Clothianidin	0.0020	U	ug/L	P438885	
		Dinotefuran	0.0020	U	ug/L	P438885	
		Diuron	0.0020	U	ug/L	P438885	
		Fenuron	0.032	U	ug/L	P438885	
		Fluridone	0.0011	I	ug/L	P438885	
		Imazapyr	0.12		ug/L	P438885	
		Hydrocodone	0.0020	U	ug/L	P438885	
		Ibuprofen	0.080	U	ug/L	P438885	
		Imidacloprid	0.0094		ug/L	P438885	
		Linuron	0.0040	U	ug/L	P438885	
		Mandestrobin	0.0020	U	ug/L	P438885	
		MCPP	0.0020	U	ug/L	P438885	
		Naproxen	0.0080	U	ug/L	P438885	
		Primidone	0.0040	U	ug/L	P438885	
		Pyraclostrobin	0.0020	U	ug/L	P438885	
		Silvex	0.0040	U	ug/L	P438885	
		Thiamethoxam	0.0020	U	ug/L	P438885	
		Tolfenpyrad	0.0020	U	ug/L	P438885	
		Triclopyr	0.0040	U	ug/L	P438885	
2456667	EPA 8270E	Aldrin	0.67	U	ng/L	P438882	
		Alpha-BHC	0.10	U	ng/L	P438882	
		Alpha-Chlordane	0.21	U	ng/L	P438882	
		PCB-1016	2.1	U	ng/L	P438882	
		Beta-BHC	0.10	U	ng/L	P438882	
		PCB-1221	2.1	U	ng/L	P438882	
		Beta-Cyfluthrin	1.3	U	ng/L	P438882	
		PCB-1232	2.1	U	ng/L	P438882	
		Bifenthrin	0.52	U	ng/L	P438882	
		PCB-1242	2.1	U	ng/L	P438882	
		PCB-1248	2.1	U	ng/L	P438882	

Field ID: IMKFSHCK Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2456667	EPA 8270E	Chlorothalonil	3.7	U	ng/L	P438882	
		PCB-1254	2.1	U	ng/L	P438882	
		Cis-Nonachlor	0.21	U	ng/L	P438882	
		PCB-1260	2.1	U	ng/L	P438882	
		Cypermethrin	1.5	U	ng/L	P438882	
		Dacthal	0.15	U	ng/L	P438882	
		DDD-p,p'	0.26	U	ng/L	P438882	
		DDE-p,p'	0.21	U	ng/L	P438882	
		DDT-p,p'	0.83	U	ng/L	P438882	
		Delta-BHC	0.41	U	ng/L	P438882	
		Deltamethrin	1.3	U	ng/L	P438882	
		Dichlobenil	0.26	U	ng/L	P438882	MS, RPD
		Dicofol	1.3	U	ng/L	P438882	
		Dieldrin	0.41	U	ng/L	P438882	
		Endosulfan I	0.41	U	ng/L	P438882	
		Endosulfan II	0.93	U	ng/L	P438882	
		Endosulfan Sulfate	0.31	U	ng/L	P438882	
		Endrin	0.93	U	ng/L	P438882	
		Endrin Aldehyde	0.77	U	ng/L	P438882	
		Endrin Ketone	0.41	U	ng/L	P438882	
		Esfenvalerate	0.77	U	ng/L	P438882	
		Ethalfluralin	0.15	U	ng/L	P438882	
		Fenpropathrin	0.26	U	ng/L	P438882	
		Gamma-BHC	0.13	U	ng/L	P438882	
		Gamma-Chlordane	0.21	U	ng/L	P438882	
		Heptachlor	0.21	U	ng/L	P438882	
		Heptachlor Epoxide	0.26	U	ng/L	P438882	
		Hexachlorobenzene**	1.0	U	ng/L	P438882	
		Kepone	14	U	ng/L	P438882	
		Lambda-Cyhalothrin	0.77	U	ng/L	P438882	
		Methoprene	0.77	U	ng/L	P438882	
		Methoxychlor	0.31	U	ng/L	P438882	
		MGK-264	0.21	U	ng/L	P438882	
		Mirex	0.36	U	ng/L	P438882	
		Oxychlordane	0.31	U	ng/L	P438882	
		Permethrin	1.7	U	ng/L	P438882	
		Phenothrin	0.93	U	ng/L	P438882	
		Piperonyl Butoxide	1.2		ng/L	P438882	
		Prallethrin	2.1	U	ng/L	P438882	
		Tau-Fluvalinate	0.26	U	ng/L	P438882	
		Tetramethrin	0.77	U	ng/L	P438882	
		Trans-Nonachlor	0.21	U	ng/L	P438882	
		Triclosan Methyl	0.15	U	ng/L	P438882	
		Trifluralin	0.21	U	ng/L	P438882	
	EPA 8276	Chlordane	2.1	U	ng/L	P438882	

Field ID: IMKFSHCK Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2456667	EPA 8276	Toxaphene	15	U	ng/L	P438882	

Ref. Method and Comment:
EPA 8270E: MS accuracy for alpha-chlordane, heptachlor epoxide and dieldrin not assessed due to high content of these parameters in the sample spiked.

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P438918

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P438925

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P438982

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	40	I	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: P438982

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Barium	0.20	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.14	I	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.90	I	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P439271

Component	Result	Code	Units
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Nickel	0.50	U	ug/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439405

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439408

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P439216

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P439053

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P439173

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P439045

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

Reference Method: EPA 8270E
Batch ID: P438882

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.80	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P438882

Component	Result	Code	Units
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfluralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	14	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8270E
Batch ID: P439019

Component	Result	Code	Units
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	60	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P439019

Component	Result	Code	Units
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.45	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P439019

Component	Result	Code	Units
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	150	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	6.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.7	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	25	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	55	U	ng/L

Reference Method: EPA 8270E
Batch ID: P439744

Component	Result	Code	Units
Oxybenzone	10	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L

Reference Method: EPA 8276
Batch ID: P438882

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P438838

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: P438885

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: P438952

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P438952

Component	Result	Code	Units
Propoxur	0.0020	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P439119

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

Reference Method: SM 2540 C-2015
Batch ID: P439354

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P439296

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P439122

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2014
Batch ID: P439101

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: P438918

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.2		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P438925

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P438982

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Iron	111		P	85 - 115
Magnesium	112		P	85 - 115
Potassium	101		P	85 - 115
Sodium	102		P	85 - 115
Strontium	99.5		P	85 - 115
Tin	98.8		P	85 - 115
Titanium	102		P	85 - 115
Vanadium	100		P	85 - 115
Zinc	97.9		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P438982

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	101		P	85 - 115
Antimony	102		P	85 - 115
Arsenic	102		P	85 - 115
Barium	103		P	85 - 115
Beryllium	96.0		P	85 - 115
Boron	103		P	85 - 115
Cadmium	101		P	85 - 115
Copper	98.2		P	85 - 115
Lead	95.5		P	85 - 115
Manganese	101		P	85 - 115
Molybdenum	98.7		P	85 - 115
Nickel	101		P	85 - 115
Selenium	103		P	85 - 115
Silver	101		P	85 - 115
Thallium	100		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P439271

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chromium	104		P	85 - 115
Cobalt	101		P	85 - 115
Nickel	100		P	85 - 115

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439405

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439408

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P439216

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P439053

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: P439173

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	101		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P439045

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

Reference Method: EPA 8270E
Batch ID: P438882

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	53.6		P	30 - 96.0
Alpha-BHC	79.1		P	70 - 109
Alpha-Chlordane	70.5		P	45 - 107
Beta-BHC	93.9		P	64 - 138
Beta-Cyfluthrin	51.8		P	17 - 141
Bifenthrin	48.0		P	10 - 113
Chlorothalonil	54.8		P	26 - 180
Cis-Nonachlor	79.0		P	37 - 102
Cypermethrin	47.6		P	20 - 133
Dacthal	75.4		P	69 - 114
DDD-p,p'	79.2		P	42 - 105
DDE-p,p'	80.1		P	42 - 106
DDT-p,p'	77.8		P	42 - 107
Delta-BHC	96.3		P	67 - 144
Deltamethrin	57.1		P	15 - 149
Dichlobenil	92.7		P	46 - 117

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P438882

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dicofol	72.7		P	34 - 114
Dieldrin	81.9		P	50 - 108
Endosulfan I	79.7		P	55 - 104
Endosulfan II	91.5		P	51 - 111
Endosulfan Sulfate	83.9		P	56 - 121
Endrin	79.9		P	10 - 106
Endrin Aldehyde	73.4		P	34 - 114
Endrin Ketone	80.3		P	63 - 177
Esfenvalerate	63.2		P	29 - 143
Ethalfluralin	78.1		P	46 - 96.0
Fenpropathrin	66.7		P	28 - 115
Gamma-BHC	102		P	65 - 121
Gamma-Chlordane	83.9		P	39 - 103
Heptachlor	76.3		P	39 - 94.0
Heptachlor Epoxide	84.0		P	54 - 104
Hexachlorobenzene	61.0		P	36 - 100
Kepone	138		P	10 - 225
Lambda-Cyhalothrin	48.1		P	10 - 135
Methoprene	46.6		P	10 - 109
Methoxychlor	77.6		P	52 - 112
MGK-264	94.7		P	44 - 117
Mirex	60.8		P	20 - 90.0
Oxychlordane	79.4		P	44 - 102
PCB-1016	67.3		P	45 - 107
PCB-1260	62.8		P	40 - 118
Permethrin	68.8		P	18 - 135
Phenothrin	52.1		P	10 - 102
Piperonyl Butoxide	92.2		P	28 - 156
Prallethrin	91.0		P	28 - 113
Tau-Fluvalinate	54.5		P	10 - 123
Tetramethrin	47.0		P	18 - 158
Trans-Nonachlor	77.3		P	39 - 104
Triclosan Methyl	82.1		P	54 - 108
Trifluralin	68.4		P	46 - 97.0

Reference Method: EPA 8270E
Batch ID: P439019

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	123		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	89.4		P	37 - 154
Acetochlor	134		F	64 - 124
Alachlor	118		P	61 - 118
Ametryn	124		P	47 - 158
Atrazine	111		P	68 - 121
Atrazine Desethyl	104		P	30 - 119
Avobenzone	143		P	48 - 193
Azinphos Methyl	139		P	30 - 194
Azoxystrobin	111		P	58 - 154
Bromacil	124		P	47 - 126
Butylate	65.1		P	31 - 83.0
Caffeine	88.3		P	10 - 180

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P439019

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Carbophenothion	89.1		P	59 - 133
Carfentrazone Ethyl	95.4		P	59 - 147
Chlorfenapyr	75.6		P	52 - 118
Chlorpyrifos Ethyl	112		P	59 - 119
Chlorpyrifos Methyl	129		F	65 - 123
Coumaphos	104		P	11 - 223
Cyanazine	167		P	63 - 250
Cyprodinil	116		P	52 - 143
Dechlorane 602	113		P	23 - 142
Dechlorane 603	86.7		P	51 - 171
Dechlorane Plus	93.0		P	46 - 161
Demeton	98.6		P	42 - 119
Diazinon	126		P	67 - 132
Difenoconazole	106		P	12 - 204
Dimethenamid	117		F	53 - 113
Dimethomorph	105		P	13 - 238
Disulfoton	142		F	56 - 126
Dithiopyr	117		P	58 - 127
EPTC	67.5		P	31 - 78.0
Ethion	87.3		P	24 - 127
Ethoprop	113		P	60 - 118
Etridiazole	81.9		P	32 - 91.0
Fenamiphos	122		P	54 - 129
Fenbuconazole	126		P	31 - 162
Fipronil	95.6		P	56 - 131
Fipronil Desulfinyl	101		P	58 - 132
Fipronil Sulfide	87.0		P	51 - 123
Fipronil Sulfone	85.3		P	50 - 125
Fluazifop-P-butyl	87.6		P	52 - 132
Fludioxonil	90.6		P	52 - 129
Flumioxazin	109		P	34 - 250
Flutolanil	107		P	45 - 128
Fluxapyroxad	108		P	31 - 150
Fonofos	122		F	60 - 116
Hexabromobenzene	76.9		P	52 - 165
Hexazinone	118		P	59 - 120
Imazalil	110		P	39 - 134
Iprodione	120		P	39 - 243
Loratadine	93.0		P	10 - 240
Malathion	122		P	53 - 145
Metalaxyl	101		P	59 - 120
Metolachlor	98.9		P	64 - 122
Metribuzin	105		P	33 - 128
Mevinphos	105		P	48 - 119
Molinate	79.7		P	42 - 89.0
Myclobutanil	111		P	54 - 129
Naled	49.9		P	10 - 138
Napropamide	97.9		P	40 - 122
Norflurazon	109		P	49 - 132
Octinoxate	182		F	29 - 176
Oxadiazon	81.4		P	50 - 115
Oxybenzone	113		P	45 - 145

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P439019

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Oxyfluorfen	103		P	62 - 149
Parathion Ethyl	114		P	68 - 119
Parathion Methyl	115		P	68 - 147
PBB-153	70.7		P	42 - 179
PBDE-47	103		P	44 - 141
PBDE-99	108		P	36 - 141
Pendimethalin	129		P	59 - 158
Pentabromotoluene	106		P	58 - 148
Phenytoin	137		P	10 - 151
Phorate	115		P	44 - 124
Prodiamine	125		P	10 - 136
Prometon	120		P	45 - 131
Prometryn	124		P	52 - 140
Pronamide	147		F	70 - 129
Propanil	93.9		P	54 - 144
Propargite	114		P	10 - 191
Propiconazole	112		P	49 - 128
Pyraflufen Ethyl	110		P	46 - 141
Pyridaben	131		P	29 - 198
Pyriproxyfen	108		P	33 - 221
Simazine	111		P	62 - 119
Stirophos	72.2		P	13 - 144
Sulfentrazone	108		P	12 - 152
Tebuconazole	113		P	10 - 135
Terbufos	105		P	67 - 136
Terbuthylazine	109		P	66 - 113
Tetradecachloro-m-terphenyl	96.3		P	30 - 235
Thiobencarb	109		P	51 - 125
Tri-o-cresyl Phosphate	132		P	50 - 150
Triadimefon	92.2		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	105		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	118		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	119		P	59 - 166

Reference Method: EPA 8270E
Batch ID: P439744

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Oxybenzone	77.8		P	45 - 145
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	85.6		P	66 - 141

Reference Method: EPA 8276
Batch ID: P438882

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	71.7		P	43 - 123
Toxaphene	77.0		P	27 - 156

Reference Method: EPA 8321B
Batch ID: P438838

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P438838

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	122		P	40 - 150
AMPA	96.7		P	40 - 160
Endothall	98.6		P	40 - 160
Glufosinate	97.0		P	40 - 160
Glyphosate	92.6		P	40 - 160
Sucralose	99.2		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P438885

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	106		P	40 - 150
2,4,5-T	115		P	40 - 150
Acetaminophen	50.5		P	30 - 150
Acetamiprid	80.0		P	40 - 150
Afidopyropen	67.8		P	30 - 150
Bentazon	73.4		P	30 - 150
Benzovindiflupyr	84.5		P	40 - 150
Carbamazepine	86.4		P	40 - 150
Clothianidin	93.9		P	40 - 150
Dinotefuran	108		P	40 - 150
Diuron	86.8		P	40 - 150
Fenuron	91.8		P	40 - 150
Fluridone	95.9		P	40 - 150
Hydrocodone	96.9		P	40 - 150
Ibuprofen	70.2		P	40 - 150
Imazapyr	92.4		P	40 - 150
Imidacloprid	91.2		P	40 - 150
Linuron	80.4		P	40 - 150
Mandestrobin	94.1		P	40 - 150
MCPP	101		P	40 - 150
Naproxen	74.6		P	40 - 150
Primidone	89.0		P	40 - 150
Pyraclostrobin	82.9		P	40 - 150
Silvex	88.1		P	40 - 150
Thiamethoxam	96.2		P	40 - 150
Tolfenpyrad	58.8		P	30 - 150
Triclopyr	120		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P438952

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P438952

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Propoxur	63.8		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P439119

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.3		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P439354

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	93.6		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P439296

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

Reference Method: SM 4500-F- C-2011
Batch ID: P439122

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

Reference Method: SM 5310 B-2014
Batch ID: P439101

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.6		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P438982

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456623	Calcium	104		P	80 - 120
2456623	Iron	111	110	P/P	80 - 120
2456623	Magnesium	112	110	P/P	80 - 120
2456623	Potassium	102		P	80 - 120
2456623	Sodium	103		P	80 - 120
2456623	Strontium	100	99.4	P/P	80 - 120
2456623	Tin	94.9	94.6	P/P	80 - 120
2456623	Titanium	98.6	97.8	P/P	80 - 120
2456623	Vanadium	98.8	98.7	P/P	80 - 120
2456623	Zinc	94.5	95.7	P/P	80 - 120
2456625	Calcium	104		P	80 - 120
2456625	Iron	116		P	80 - 120
2456625	Magnesium	111		P	80 - 120
2456625	Potassium	102		P	80 - 120
2456625	Sodium	102		P	80 - 120
2456625	Strontium	98.4		P	80 - 120
2456625	Tin	96.4		P	80 - 120
2456625	Titanium	101		P	80 - 120
2456625	Vanadium	100		P	80 - 120
2456625	Zinc	96.9		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P438982

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456623	Aluminum	95.0	103	P/P	80 - 120
2456623	Antimony	101	101	P/P	80 - 120
2456623	Arsenic	102	103	P/P	80 - 120
2456623	Barium	101	103	P/P	80 - 120
2456623	Beryllium	95.7	96.6	P/P	80 - 120
2456623	Boron	111	112	P/P	80 - 120
2456623	Cadmium	99.5	102	P/P	80 - 120
2456623	Copper	97.0	98.7	P/P	80 - 120
2456623	Lead	96.1	98.2	P/P	80 - 120
2456623	Molybdenum	97.8	100	P/P	80 - 120
2456623	Nickel	99.6	101	P/P	80 - 120
2456623	Selenium	98.0	102	P/P	80 - 120
2456623	Silver	99.0	100	P/P	80 - 120
2456623	Thallium	104	106	P/P	80 - 120
2456625	Aluminum	99.6		P	80 - 120
2456625	Antimony	102		P	80 - 120
2456625	Arsenic	101		P	80 - 120
2456625	Barium	100		P	80 - 120
2456625	Beryllium	96.3		P	80 - 120
2456625	Boron	107		P	80 - 120
2456625	Cadmium	98.5		P	80 - 120
2456625	Copper	96.1		P	80 - 120
2456625	Lead	96.4		P	80 - 120
2456625	Molybdenum	101		P	80 - 120
2456625	Nickel	98.3		P	80 - 120
2456625	Selenium	102		P	80 - 120
2456625	Silver	99.1		P	80 - 120

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P438982

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456625	Thallium	104		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P439271

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456411	Chromium	107	106	P/P	80 - 120
2456411	Cobalt	101	99.8	P/P	80 - 120
2456411	Nickel	101	98.8	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439405

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456614	Chloride	99.8		P	90 - 110
2456615	Chloride	99.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439408

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456614	Sulfate	98.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P439216

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456616	Ammonia-N	104	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P439053

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456630	Kjeldahl Nitrogen	111	94.8	F/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P439173

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456616	NO2NO3-N	98.3	97.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P439045

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456642	Total-P	110	107	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P438882

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456514	PCB-1016	57.4	57.3	P/P	45 - 107

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P438882

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456514	PCB-1260	53.1	55.7	P/P	40 - 112
2456681	Aldrin	47.1	44.5	P/P	24 - 81.0
2456681	Alpha-BHC	73.0	68.5	P/P	65 - 110
2456681	Beta-BHC	80.0	73.5	P/P	54 - 165
2456681	Beta-Cyfluthrin	61.1	65.9	P/P	27 - 165
2456681	Bifenthrin	57.3	72.4	P/P	17 - 117
2456681	Chlorothalonil	103	113	P/P	10 - 255
2456681	Cis-Nonachlor	49.8	62.5	P/P	34 - 98.0
2456681	Cypermethrin	63.9	74.6	P/P	25 - 143
2456681	Dacthal	61.9	60.0	P/P	55 - 139
2456681	DDD-p,p'	54.7	72.4	P/P	30 - 109
2456681	DDE-p,p'	56.3	62.9	P/P	35 - 106
2456681	DDT-p,p'	53.5	53.6	P/P	41 - 101
2456681	Delta-BHC	88.8	84.9	P/P	58 - 165
2456681	Deltamethrin	48.6	57.6	P/P	10 - 194
2456681	Dichlobenil	64.1	124	P/F	22 - 114
2456681	Dicofol	62.2	62.5	P/P	17 - 133
2456681	Endosulfan I	68.6	67.4	P/P	49 - 104
2456681	Endosulfan II	73.3	90.2	P/P	37 - 117
2456681	Endosulfan Sulfate	64.7	67.9	P/P	38 - 128
2456681	Endrin	69.5	71.6	P/P	35 - 116
2456681	Endrin Aldehyde	50.5	49.9	P/P	19 - 108
2456681	Endrin Ketone	66.1	81.1	P/P	44 - 134
2456681	Esfenvalerate	64.4	86.5	P/P	27 - 176
2456681	Ethalfluralin	73.4	72.6	P/P	49 - 100
2456681	Fenpropathrin	64.7	73.6	P/P	34 - 117
2456681	Gamma-BHC	81.3	75.6	P/P	59 - 129
2456681	Gamma-Chlordane	44.4	49.7	P/P	33 - 107
2456681	Heptachlor	57.8	66.0	P/P	37 - 94.0
2456681	Hexachlorobenzene	52.9	66.1	P/P	35 - 97.0
2456681	Kepone	130	127	P/P	10 - 221
2456681	Lambda-Cyhalothrin	67.6	72.0	P/P	23 - 190
2456681	Methoprene	56.5	59.0	P/P	21 - 109
2456681	Methoxychlor	65.9	78.9	P/P	46 - 118
2456681	MGK-264	71.8	73.0	P/P	39 - 122
2456681	Mirex	55.2	54.0	P/P	25 - 90.0
2456681	Oxychlordane	78.1	79.6	P/P	42 - 100
2456681	Permethrin	68.0	68.3	P/P	33 - 181
2456681	Phenothrin	55.2	58.7	P/P	12 - 125
2456681	Piperonyl Butoxide	73.4	74.2	P/P	10 - 178
2456681	Prallethrin	60.0	59.6	P/P	24 - 122
2456681	Tau-Fluvalinate	55.5	71.1	P/P	13 - 151
2456681	Tetramethrin	77.5	67.7	P/P	16 - 172
2456681	Trans-Nonachlor	63.3	62.1	P/P	39 - 100
2456681	Triclosan Methyl	59.9	63.2	P/P	43 - 110
2456681	Trifluralin	67.4	58.2	P/P	45 - 94.0

Reference Method: EPA 8270E
Batch ID: P439019

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456103	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	76.1	75.6	P/P	50 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P439019

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456103	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	72.3	83.3	P/P	29 - 155
2456103	Acetochlor	116	87.5	P/P	60 - 124
2456103	Alachlor	104	85.7	P/P	54 - 122
2456103	Ametryn	107	110	P/P	51 - 208
2456103	Atrazine Desethyl	100	93.2	P/P	13 - 124
2456103	Avobenzone	67.3	90.3	P/P	35 - 187
2456103	Azinphos Methyl	99.4	106	P/P	43 - 276
2456103	Azoxystrobin	75.4	90.0	P/P	52 - 300
2456103	Bromacil	88.6	94.3	P/P	44 - 134
2456103	Butylate	33.0	32.6	P/P	23 - 82.0
2456103	Carbophenothion	73.8	74.3	P/P	47 - 135
2456103	Carfentrazone Ethyl	95.6	90.2	P/P	46 - 147
2456103	Chlorfenapyr	75.1	73.2	P/P	43 - 114
2456103	Chlorpyrifos Ethyl	75.3	90.4	P/P	47 - 124
2456103	Chlorpyrifos Methyl	119	91.6	P/P	60 - 135
2456103	Coumaphos	85.2	91.0	P/P	10 - 222
2456103	Cyanazine	108	114	P/P	10 - 257
2456103	Cyprodinil	94.6	116	P/P	42 - 148
2456103	Dechlorane 602	72.5	68.7	P/P	14 - 133
2456103	Dechlorane 603	78.9	88.9	P/P	18 - 191
2456103	Dechlorane Plus	71.4	86.6	P/P	23 - 154
2456103	Demeton	58.3	59.4	P/P	41 - 137
2456103	Diazinon	79.6	85.1	P/P	64 - 139
2456103	Difenoconazole	91.4	105	P/P	46 - 254
2456103	Dimethenamid	76.7	76.5	P/P	47 - 117
2456103	Dimethomorph	81.1	103	P/P	14 - 255
2456103	Disulfoton	0.0	0.0	F/F	52 - 130
2456103	Dithiopyr	64.2	58.1	P/P	40 - 121
2456103	EPTC	34.4	41.8	P/P	19 - 78.0
2456103	Ethion	76.9	68.5	P/P	12 - 124
2456103	Ethoprop	104	117	P/P	68 - 144
2456103	Etridiazole	37.5	48.6	P/P	26 - 96.0
2456103	Fenamiphos	34.6	34.7	F/F	41 - 129
2456103	Fenbuconazole	107	105	P/P	26 - 169
2456103	Fipronil Desulfinyl	80.7	62.1	P/P	47 - 136
2456103	Fipronil Sulfide	50.3	34.7	P/F	41 - 127
2456103	Fipronil Sulfone	75.0	71.8	P/P	35 - 133
2456103	Fluazifop-P-butyl	68.8	63.7	P/P	46 - 131
2456103	Fludioxonil	75.2	75.9	P/P	51 - 124
2456103	Flumioxazin	87.4	105	P/P	10 - 289
2456103	Flutolanil	85.4	84.3	P/P	34 - 130
2456103	Fluxapyroxad	76.2	77.5	P/P	10 - 197
2456103	Fonofos	0.0	0.0	F/F	42 - 131
2456103	Hexabromobenzene	82.0	90.7	P/P	47 - 178
2456103	Hexazinone	92.1	95.9	P/P	64 - 125
2456103	Imazalil	117	133	P/P	37 - 252
2456103	Iprodione	106	86.1	P/P	34 - 265
2456103	Malathion	80.9	79.7	P/P	34 - 164
2456103	Metalaxyl	65.8	77.0	P/P	49 - 125
2456103	Metolachlor	70.4	71.3	P/P	54 - 125
2456103	Metribuzin	97.5	85.8	P/P	51 - 139
2456103	Mevinphos	102	99.6	P/P	46 - 130

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P439019

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456103	Molinate	43.4	51.4	P/P	39 - 93.0
2456103	Myclobutanil	97.5	102	P/P	50 - 130
2456103	Naled	66.6	65.5	P/P	10 - 150
2456103	Napropamide	62.2	62.0	P/P	10 - 109
2456103	Norflurazon	85.3	77.9	P/P	36 - 134
2456103	Octinoxate	112	122	P/P	18 - 170
2456103	Oxadiazon	52.4	56.0	P/P	43 - 112
2456103	Oxybenzone	81.1	88.4	P/P	33 - 154
2456103	Oxyfluorfen	78.9	86.6	P/P	62 - 154
2456103	Parathion Ethyl	97.3	101	P/P	65 - 120
2456103	Parathion Methyl	121	112	P/P	77 - 185
2456103	PBB-153	71.9	83.2	P/P	23 - 193
2456103	PBDE-47	76.3	80.8	P/P	31 - 139
2456103	PBDE-99	73.1	80.8	P/P	24 - 138
2456103	Pendimethalin	93.6	119	P/P	50 - 146
2456103	Pentabromotoluene	80.7	88.7	P/P	54 - 152
2456103	Phenytoin	87.4	86.9	P/P	10 - 157
2456103	Phorate	76.3	57.4	P/P	54 - 161
2456103	Prodiamine	95.5	76.1	P/P	29 - 160
2456103	Prometon	106	122	P/P	38 - 145
2456103	Prometryn	105	94.5	P/P	32 - 151
2456103	Pronamide	134	108	P/P	61 - 140
2456103	Propanil	66.4	66.1	P/P	50 - 147
2456103	Propargite	77.7	84.2	P/P	10 - 190
2456103	Propiconazole	109	91.7	P/P	30 - 146
2456103	Pyraflufen Ethyl	97.5	83.3	P/P	30 - 147
2456103	Pyridaben	107	102	P/P	15 - 195
2456103	Pyriproxyfen	86.8	88.7	P/P	31 - 218
2456103	Simazine	134	128	P/P	45 - 139
2456103	Stirophos	52.7	53.6	P/P	10 - 134
2456103	Sulfentrazone	79.2	73.7	P/P	53 - 186
2456103	Tebuconazole	77.6	80.9	P/P	10 - 133
2456103	Terbufos	15.9	20.6	F/F	65 - 151
2456103	Terbuthylazine	96.5	85.0	P/P	62 - 117
2456103	Tetradecachloro-m-terphenyl	68.5	98.7	P/P	10 - 260
2456103	Thiobencarb	89.2	85.2	P/P	48 - 122
2456103	Tri-o-cresyl Phosphate	89.1	98.1	P/P	32 - 151
2456103	Triadimefon	68.3	79.3	P/P	46 - 124
2456103	Tris(2-chloroethyl) phosphate (TCEP)	81.8	93.0	P/P	65 - 156

Reference Method: EPA 8270E
Batch ID: P439744

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2459356	Oxybenzone	86.9	79.9	P/P	33 - 154
2459356	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	95.3	85.4	P/P	59 - 147

Reference Method: EPA 8276
Batch ID: P438882

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456514	Chlordane	62.5	74.3	P/P	43 - 123

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8276
Batch ID: P438882

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456514	Toxaphene	77.3	98.8	P/P	27 - 156

Reference Method: EPA 8321B
Batch ID: P438838

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456269	Acesulfame K	117	118	P/P	40 - 150
2456269	AMPA	93.4	93.6	P/P	40 - 160
2456269	Endothall	92.1	103	P/P	40 - 160
2456269	Glufosinate	95.3	89.3	P/P	40 - 160
2456269	Glyphosate	73.5	72.6	P/P	40 - 160
2456269	Sucralose	96.1	105	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P438885

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456192	2,4-D	103	96.0	P/P	40 - 150
2456192	2,4,5-T	92.2	90.8	P/P	40 - 150
2456192	Acetaminophen	52.7	46.3	P/P	30 - 150
2456192	Acetamiprid	96.9	90.8	P/P	40 - 150
2456192	Afidopyropen	87.2	75.6	P/P	30 - 150
2456192	Bentazon	70.8	70.0	P/P	30 - 150
2456192	Benzovindiflupyr	88.2	80.2	P/P	40 - 150
2456192	Carbamazepine	90.1	81.6	P/P	40 - 150
2456192	Clothianidin	95.4	86.7	P/P	40 - 150
2456192	Dinotefuran	107	98.0	P/P	40 - 150
2456192	Diuron	79.6	74.3	P/P	40 - 150
2456192	Fenuron	85.4	77.5	P/P	40 - 150
2456192	Fluridone	97.4	82.8	P/P	40 - 150
2456192	Hydrocodone	98.2	89.1	P/P	40 - 150
2456192	Ibuprofen	69.9	68.9	P/P	40 - 150
2456192	Imazapyr	100	88.2	P/P	40 - 150
2456192	Imidacloprid	103	92.8	P/P	40 - 150
2456192	Linuron	72.3	70.5	P/P	40 - 150
2456192	Mandestrobin	94.6	89.4	P/P	40 - 150
2456192	MCPP	97.3	92.5	P/P	40 - 150
2456192	Naproxen	80.0	82.2	P/P	40 - 150
2456192	Primidone	84.8	81.1	P/P	40 - 150
2456192	Pyraclostrobin	81.9	77.0	P/P	40 - 150
2456192	Silvex	92.5	84.3	P/P	40 - 150
2456192	Thiamethoxam	89.2	81.1	P/P	40 - 150
2456192	Tolfenpyrad	51.6	49.2	P/P	30 - 150
2456192	Triclopyr	100	92.9	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P438952

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456407	3-Hydroxycarbofuran	84.2	71.9	P/P	40 - 150
2456407	Aldicarb	57.4	63.4	P/P	30 - 150
2456407	Aldicarb Sulfone	83.8	90.8	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P438952

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456407	Aldicarb Sulfoxide	40.7	43.9	P/P	40 - 150
2456407	Carbaryl	59.1	62.5	P/P	40 - 150
2456407	Carbofuran	62.0	63.0	P/P	40 - 150
2456407	Methiocarb	61.8	61.3	P/P	40 - 150
2456407	Methomyl	75.2	75.4	P/P	40 - 150
2456407	Oxamyl	70.9	73.6	P/P	40 - 150
2456407	Propoxur	58.4	62.5	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P439122

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456913	Fluoride	103	102	P/P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P439101

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455703	Organic Carbon	100	100	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P438918

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456739	Color (true)	5.89	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P438925

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456639	Turbidity	10.5	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P438982

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456623	Calcium	1.21	Spike	P	0 - 20
2456623	Iron	0.779	Spike	P	0 - 20
2456623	Magnesium	0.912	Spike	P	0 - 20
2456623	Potassium	0.477	Spike	P	0 - 20
2456623	Sodium	0.891	Spike	P	0 - 20
2456623	Strontium	0.853	Spike	P	0 - 20
2456623	Tin	0.277	Spike	P	0 - 20
2456623	Titanium	0.755	Spike	P	0 - 20
2456623	Vanadium	0.120	Spike	P	0 - 20
2456623	Zinc	1.16	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P438982

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456623	Aluminum	4.70	Spike	P	0 - 20
2456623	Antimony	0.264	Spike	P	0 - 20
2456623	Arsenic	0.497	Spike	P	0 - 20
2456623	Barium	2.04	Spike	P	0 - 20
2456623	Beryllium	0.842	Spike	P	0 - 20
2456623	Boron	0.629	Spike	P	0 - 20
2456623	Cadmium	2.79	Spike	P	0 - 20
2456623	Copper	1.62	Spike	P	0 - 20
2456623	Lead	2.14	Spike	P	0 - 20
2456623	Manganese	2.03	Spike	P	0 - 20
2456623	Molybdenum	2.52	Spike	P	0 - 20
2456623	Nickel	1.28	Spike	P	0 - 20
2456623	Selenium	3.80	Spike	P	0 - 20
2456623	Silver	1.34	Spike	P	0 - 20
2456623	Thallium	1.96	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P439271

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits

Quality Assurance Report
Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P439271

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456411	Chromium	1.31	Spike	P	0 - 20
2456411	Cobalt	1.34	Spike	P	0 - 20
2456411	Nickel	2.08	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439405

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456614	Chloride	3.17	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439408

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456614	Sulfate	2.89	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P439216

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456616	Ammonia-N	0.102	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P439053

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456630	Kjeldahl Nitrogen	8.88	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P439173

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456616	NO2NO3-N	0.844	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P439045

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456642	Total-P	2.15	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P438882

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P438882

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456514	PCB-1016	0.0537	Spike	P	0 - 25
2456514	PCB-1260	4.88	Spike	P	0 - 30
2456681	Aldrin	5.75	Spike	P	0 - 41
2456681	Alpha-BHC	6.30	Spike	P	0 - 25
2456681	Alpha-Chlordane	4.49	Spike	P	0 - 32
2456681	Beta-BHC	8.55	Spike	P	0 - 33
2456681	Beta-Cyfluthrin	7.62	Spike	P	0 - 43
2456681	Bifenthrin	23.2	Spike	P	0 - 52
2456681	Chlorothalonil	9.15	Spike	P	0 - 82
2456681	Cis-Nonachlor	22.6	Spike	P	0 - 33
2456681	Cypermethrin	15.5	Spike	P	0 - 51
2456681	Dacthal	3.05	Spike	P	0 - 27
2456681	DDD-p,p'	27.9	Spike	P	0 - 39
2456681	DDE-p,p'	11.1	Spike	P	0 - 31
2456681	DDT-p,p'	0.181	Spike	P	0 - 29
2456681	Delta-BHC	4.55	Spike	P	0 - 35
2456681	Deltamethrin	16.9	Spike	P	0 - 100
2456681	Dichlobenil	63.9	Spike	F	0 - 40
2456681	Dicofol	0.376	Spike	P	0 - 37
2456681	Dieldrin	12.6	Spike	P	0 - 27
2456681	Endosulfan I	1.73	Spike	P	0 - 23
2456681	Endosulfan II	20.7	Spike	P	0 - 34
2456681	Endosulfan Sulfate	4.80	Spike	P	0 - 36
2456681	Endrin	2.86	Spike	P	0 - 45
2456681	Endrin Aldehyde	1.25	Spike	P	0 - 76
2456681	Endrin Ketone	18.9	Spike	P	0 - 43
2456681	Esfenvalerate	29.2	Spike	P	0 - 51
2456681	Ethalfluralin	1.02	Spike	P	0 - 22
2456681	Fenpropathrin	13.0	Spike	P	0 - 49
2456681	Gamma-BHC	7.20	Spike	P	0 - 28
2456681	Gamma-Chlordane	5.28	Spike	P	0 - 40
2456681	Heptachlor	13.3	Spike	P	0 - 29
2456681	Heptachlor Epoxide	1.96	Spike	P	0 - 33
2456681	Hexachlorobenzene	22.0	Spike	P	0 - 36
2456681	Kepone	2.32	Spike	P	0 - 85
2456681	Lambda-Cyhalothrin	6.34	Spike	P	0 - 55
2456681	Methoprene	4.28	Spike	P	0 - 53
2456681	Methoxychlor	18.0	Spike	P	0 - 50
2456681	MGK-264	1.58	Spike	P	0 - 43
2456681	Mirex	2.28	Spike	P	0 - 40
2456681	Oxychlordane	1.91	Spike	P	0 - 31
2456681	Permethrin	0.356	Spike	P	0 - 50
2456681	Phenothrin	6.05	Spike	P	0 - 58
2456681	Piperonyl Butoxide	0.986	Spike	P	0 - 100
2456681	Prallethrin	0.725	Spike	P	0 - 39
2456681	Tau-Fluvalinate	24.8	Spike	P	0 - 54
2456681	Tetramethrin	13.6	Spike	P	0 - 51
2456681	Trans-Nonachlor	1.24	Spike	P	0 - 39
2456681	Triclosan Methyl	5.36	Spike	P	0 - 31
2456681	Trifluralin	14.6	Spike	P	0 - 22

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P439019

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456103	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	0.559	Spike	P	0 - 30
2456103	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	14.2	Spike	P	0 - 35
2456103	Acetochlor	27.8	Spike	P	0 - 28
2456103	Alachlor	19.5	Spike	P	0 - 30
2456103	Ametryn	2.74	Spike	P	0 - 32
2456103	Atrazine	4.42	Spike	P	0 - 33
2456103	Atrazine Desethyl	7.07	Spike	P	0 - 36
2456103	Avobenzone	29.2	Spike	P	0 - 35
2456103	Azinphos Methyl	5.98	Spike	P	0 - 62
2456103	Azoxystrobin	9.83	Spike	P	0 - 39
2456103	Bromacil	4.51	Spike	P	0 - 33
2456103	Butylate	1.22	Spike	P	0 - 51
2456103	Caffeine	7.12	Spike	P	0 - 100
2456103	Carbophenothion	0.720	Spike	P	0 - 34
2456103	Carfentrazone Ethyl	5.77	Spike	P	0 - 33
2456103	Chlorfenapyr	1.15	Spike	P	0 - 28
2456103	Chlorpyrifos Ethyl	18.1	Spike	P	0 - 31
2456103	Chlorpyrifos Methyl	26.3	Spike	P	0 - 27
2456103	Coumaphos	6.68	Spike	P	0 - 62
2456103	Cyanazine	6.13	Spike	P	0 - 48
2456103	Cyprodinil	20.5	Spike	P	0 - 29
2456103	Dechlorane 602	5.35	Spike	P	0 - 60
2456103	Dechlorane 603	11.9	Spike	P	0 - 40
2456103	Dechlorane Plus	19.3	Spike	P	0 - 38
2456103	Demeton	1.82	Spike	P	0 - 33
2456103	Diazinon	6.67	Spike	P	0 - 32
2456103	Difenoconazole	14.3	Spike	P	0 - 71
2456103	Dimethenamid	0.173	Spike	P	0 - 60
2456103	Dimethomorph	23.5	Spike	P	0 - 61
2456103	Dithiopyr	9.89	Spike	P	0 - 28
2456103	EPTC	19.4	Spike	P	0 - 56
2456103	Ethion	11.5	Spike	P	0 - 79
2456103	Ethoprop	11.0	Spike	P	0 - 31
2456103	Etridiazole	25.8	Spike	P	0 - 43
2456103	Fenamiphos	0.356	Spike	P	0 - 43
2456103	Fenbuconazole	1.59	Spike	P	0 - 79
2456103	Fipronil	12.9	Spike	P	0 - 46
2456103	Fipronil Desulfinyl	20.0	Spike	P	0 - 36
2456103	Fipronil Sulfide	8.39	Spike	P	0 - 34
2456103	Fipronil Sulfone	1.83	Spike	P	0 - 47
2456103	Fluazifop-P-butyl	7.80	Spike	P	0 - 38
2456103	Fludioxonil	0.504	Spike	P	0 - 29
2456103	Flumioxazin	18.1	Spike	P	0 - 63
2456103	Flutolanil	1.32	Spike	P	0 - 36
2456103	Fluxapyroxad	1.43	Spike	P	0 - 65
2456103	Hexabromobenzene	10.1	Spike	P	0 - 41
2456103	Hexazinone	4.10	Spike	P	0 - 31
2456103	Imazalil	13.0	Spike	P	0 - 52
2456103	Iprodione	20.7	Spike	P	0 - 49
2456103	Loratadine	4.63	Spike	P	0 - 59
2456103	Malathion	1.44	Spike	P	0 - 77

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P439019

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456103	Metalaxyl	15.7	Spike	P	0 - 76
2456103	Metolachlor	1.23	Spike	P	0 - 29
2456103	Metribuzin	11.8	Spike	P	0 - 51
2456103	Mevinphos	2.75	Spike	P	0 - 31
2456103	Molinate	16.8	Spike	P	0 - 39
2456103	Myclobutanil	4.07	Spike	P	0 - 34
2456103	Naled	1.66	Spike	P	0 - 37
2456103	Napropamide	0.421	Spike	P	0 - 100
2456103	Norflurazon	9.12	Spike	P	0 - 54
2456103	Octinoxate	8.58	Spike	P	0 - 35
2456103	Oxadiazon	4.92	Spike	P	0 - 34
2456103	Oxybenzone	8.65	Spike	P	0 - 35
2456103	Oxyfluorfen	9.37	Spike	P	0 - 28
2456103	Parathion Ethyl	3.79	Spike	P	0 - 31
2456103	Parathion Methyl	7.83	Spike	P	0 - 29
2456103	PBB-153	14.5	Spike	P	0 - 49
2456103	PBDE-47	5.75	Spike	P	0 - 36
2456103	PBDE-99	9.92	Spike	P	0 - 46
2456103	Pendimethalin	23.9	Spike	P	0 - 31
2456103	Pentabromotoluene	9.45	Spike	P	0 - 16
2456103	Phenytoin	0.300	Spike	P	0 - 100
2456103	Phorate	28.2	Spike	P	0 - 36
2456103	Prodiamine	22.7	Spike	P	0 - 68
2456103	Prometon	14.2	Spike	P	0 - 35
2456103	Prometryn	11.0	Spike	P	0 - 33
2456103	Pronamide	20.9	Spike	P	0 - 24
2456103	Propanil	0.450	Spike	P	0 - 28
2456103	Propargite	8.09	Spike	P	0 - 53
2456103	Propiconazole	10.7	Spike	P	0 - 44
2456103	Pyraflufen Ethyl	15.6	Spike	P	0 - 61
2456103	Pyridaben	4.73	Spike	P	0 - 43
2456103	Pyriproxyfen	2.21	Spike	P	0 - 82
2456103	Simazine	4.06	Spike	P	0 - 29
2456103	Stirophos	1.57	Spike	P	0 - 100
2456103	Sulfentrazone	4.85	Spike	P	0 - 64
2456103	Tebuconazole	1.93	Spike	P	0 - 76
2456103	Terbufos	26.3	Spike	P	0 - 29
2456103	Terbuthylazine	12.7	Spike	P	0 - 28
2456103	Tetradecachloro-m-terphenyl	36.1	Spike	P	0 - 42
2456103	Thiobencarb	4.56	Spike	P	0 - 26
2456103	Tri-o-cresyl Phosphate	9.65	Spike	P	0 - 24
2456103	Triadimefon	14.8	Spike	P	0 - 40
2456103	Tris(1-chloro-2-propyl) phosphate (TCPP)	8.32	Spike	P	0 - 30
2456103	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	0.694	Spike	P	0 - 22
2456103	Tris(2-chloroethyl) phosphate (TCEP)	10.6	Spike	P	0 - 15

Reference Method: EPA 8270E
Batch ID: P439744

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P439744

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2459356	Oxybenzone	8.39	Spike	P	0 - 35
2459356	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	10.6	Spike	P	0 - 22

Reference Method: EPA 8276
Batch ID: P438882

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456514	Chlordane	17.3	Spike	P	0 - 28
2456514	Toxaphene	24.3	Spike	P	0 - 27

Reference Method: EPA 8321B
Batch ID: P438838

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456269	Acesulfame K	0.336	Spike	P	0 - 30
2456269	AMPA	0.169	Spike	P	0 - 30
2456269	Endothall	11.2	Spike	P	0 - 30
2456269	Glufosinate	6.54	Spike	P	0 - 30
2456269	Glyphosate	1.28	Spike	P	0 - 30
2456269	Sucralose	8.83	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P438885

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456192	2,4-D	7.24	Spike	P	0 - 30
2456192	2,4,5-T	1.61	Spike	P	0 - 30
2456192	Acetaminophen	12.9	Spike	P	0 - 30
2456192	Acetamiprid	6.55	Spike	P	0 - 30
2456192	Afidopyropen	14.2	Spike	P	0 - 30
2456192	Bentazon	1.23	Spike	P	0 - 30
2456192	Benzovindiflupyr	9.50	Spike	P	0 - 30
2456192	Carbamazepine	9.88	Spike	P	0 - 30
2456192	Clothianidin	9.59	Spike	P	0 - 30
2456192	Dinotefuran	9.12	Spike	P	0 - 30
2456192	Diuron	6.97	Spike	P	0 - 30
2456192	Fenuron	9.67	Spike	P	0 - 30
2456192	Fluridone	16.2	Spike	P	0 - 30
2456192	Hydrocodone	9.72	Spike	P	0 - 30
2456192	Ibuprofen	1.42	Spike	P	0 - 30
2456192	Imazapyr	11.9	Spike	P	0 - 30
2456192	Imidacloprid	10.6	Spike	P	0 - 30
2456192	Linuron	2.52	Spike	P	0 - 30
2456192	Mandestrobin	5.71	Spike	P	0 - 30
2456192	MCPP	4.98	Spike	P	0 - 30
2456192	Naproxen	2.65	Spike	P	0 - 30
2456192	Primidone	4.49	Spike	P	0 - 30
2456192	Pyraclostrobin	6.10	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P438885

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456192	Silvex	9.31	Spike	P	0 - 30
2456192	Thiamethoxam	9.48	Spike	P	0 - 30
2456192	Tolfenpyrad	4.77	Spike	P	0 - 30
2456192	Triclopyr	7.31	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P438952

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456407	3-Hydroxycarbofuran	15.8	Spike	P	0 - 30
2456407	Aldicarb	9.98	Spike	P	0 - 30
2456407	Aldicarb Sulfone	7.92	Spike	P	0 - 30
2456407	Aldicarb Sulfoxide	7.62	Spike	P	0 - 30
2456407	Carbaryl	5.56	Spike	P	0 - 30
2456407	Carbofuran	1.70	Spike	P	0 - 30
2456407	Methiocarb	0.819	Spike	P	0 - 30
2456407	Methomyl	0.285	Spike	P	0 - 30
2456407	Oxamyl	3.81	Spike	P	0 - 30
2456407	Propoxur	6.70	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P439119

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456913	Total Alkalinity	0.584	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P439354

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456639	TDS	1.82	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P439122

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456913	Fluoride	0.993	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2014
Batch ID: P439101

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455703	Organic Carbon	0.130	Spike	P	0 - 15

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2456659
Field Sample ID: G3SD0221

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	47.9	P	30 - 160

Lab Sample ID: 2456660
Field Sample ID: G3SD0221

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	90.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	55.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	55.0	P	30 - 160
EPA 8321B	Diuron-d6	51.8	P	30 - 160
EPA 8321B	Endothall-d6	109	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	93.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	71.0	P	30 - 160
EPA 8321B	Primidone-d5	80.8	P	30 - 160
EPA 8321B	Sucralose-d6	75.8	P	30 - 160

Lab Sample ID: 2456661
Field Sample ID: IMKFSHCK

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	94.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	55.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	52.4	P	30 - 160
EPA 8321B	Diuron-d6	46.7	P	30 - 160
EPA 8321B	Endothall-d6	113	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	74.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	71.7	P	30 - 160
EPA 8321B	Primidone-d5	81.7	P	30 - 160
EPA 8321B	Sucralose-d6	106	P	30 - 160

Lab Sample ID: 2456662
Field Sample ID: FB_12122023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	74.7	P	30 - 160

Lab Sample ID: 2456663
Field Sample ID: FB_12122023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	92.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	44.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	84.8	P	30 - 160
EPA 8321B	Diuron-d6	76.9	P	30 - 160
EPA 8321B	Endothall-d6	118	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	85.6	P	30 - 160
EPA 8321B	Ibuprofen-d3	71.4	P	30 - 160
EPA 8321B	Primidone-d5	85.7	P	30 - 160
EPA 8321B	Sucralose-d6	107	P	30 - 160

Quality Assurance Report
Surrogates

Lab Sample ID: 2456664
Field Sample ID: G3SD0088

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	69.1	P	20 - 200
EPA 8270E	Simazine-d10	79.6	P	58 - 137
EPA 8270E	Terbufos-d10	115	P	50 - 134
EPA 8270E	Terphenyl-d14	92.5	P	44 - 134

Lab Sample ID: 2456665
Field Sample ID: G3SD0221

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	71.7	P	37 - 129
EPA 8270E	Decachlorobiphenyl	77.8	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	52.3	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	56.9	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	53.5	P	28 - 102
EPA 8276	PCNB	101	P	49 - 115

Lab Sample ID: 2456666
Field Sample ID: G3SD0221

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	53.8	P	20 - 200
EPA 8270E	Simazine-d10	69.4	P	58 - 137
EPA 8270E	Terbufos-d10	100	P	50 - 134
EPA 8270E	Terphenyl-d14	94.6	P	44 - 134

Lab Sample ID: 2456667
Field Sample ID: IMKFSHCK

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	73.4	P	37 - 129
EPA 8270E	Decachlorobiphenyl	68.6	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	62.5	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	69.3	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	72.0	P	28 - 102
EPA 8276	PCNB	104	P	49 - 115

Lab Sample ID: 2456668
Field Sample ID: FB_12122023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	57.0	P	37 - 129
EPA 8270E	Decachlorobiphenyl	78.8	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	52.4	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	57.6	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	44.4	P	28 - 102
EPA 8276	PCNB	96.2	P	49 - 115

Lab Sample ID: 2456669
Field Sample ID: FB_12122023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	78.4	P	20 - 200

Quality Assurance Report
Surrogates

Lab Sample ID: 2456669
Field Sample ID: FB_12122023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	97.7	P	58 - 137
EPA 8270E	Terbufos-d10	117	P	50 - 134
EPA 8270E	Terphenyl-d14	100	P	44 - 134
EPA 8270E	Terphenyl-d14	96.7	P	44 - 134

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A123176
Included Lab Sample IDs: 2456660, 2456661, 2456663

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	119	117	P/P	60 - 160
Sucralose	101	105	P/P	60 - 160

Reference Method: DEP SOP: NU-094-1
Run ID: A123200
Included Lab Sample IDs: 2456639, 2456641

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	100	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A123202
Included Lab Sample IDs: 2456639, 2456641

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	99.0	P/P	95 - 105

Reference Method: EPA 8321B
Run ID: A123243
Included Lab Sample IDs: 2456660, 2456661, 2456663

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	109	105	P/P	50 - 150
2,4,5-T	106	108	P/P	50 - 150
Acetaminophen	85.9	84.0	P/P	60 - 160
Acetamiprid	110	109	P/P	50 - 150
Afidopyropen	102	110	P/P	50 - 150
Bentazon	93.7	89.9	P/P	50 - 160
Benzovindiflupyr	108	109	P/P	50 - 150
Carbamazepine	113	113	P/P	60 - 150
Clothianidin	103	102	P/P	60 - 150
Dinotefuran	116	119	P/P	50 - 150
Diuron	114	109	P/P	60 - 160
Fenuron	102	103	P/P	60 - 150
Fluridone	112	110	P/P	60 - 160
Hydrocodone	112	112	P/P	60 - 150
Ibuprofen	85.4	79.0	P/P	50 - 160
Imazapyr	87.0	97.0	P/P	50 - 150
Imidacloprid	98.0	97.4	P/P	60 - 150
Linuron	103	112	P/P	60 - 150
Mandestrobin	115	115	P/P	50 - 150
MCPP	111	108	P/P	50 - 150
Naproxen	137	97.2	P/P	50 - 160
Primidone	98.9	96.0	P/P	60 - 150
Pyraclostrobin	110	111	P/P	60 - 150
Silvex	106	90.4	P/P	50 - 150
Thiamethoxam	115	116	P/P	50 - 150
Tolfenpyrad	102	108	P/P	60 - 150
Triclopyr	108	95.7	P/P	50 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A123278
Included Lab Sample IDs: 2456672, 2456673

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	101	P/P	90 - 110
Iron	101	101	P/P	90 - 110
Magnesium	100	101	P/P	90 - 110
Potassium	100	100	P/P	90 - 110
Sodium	99.5	99.4	P/P	90 - 110
Strontium	99.7	99.7	P/P	90 - 110
Tin	102	103	P/P	90 - 110
Titanium	103	104	P/P	90 - 110
Vanadium	101	102	P/P	90 - 110
Zinc	102	103	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A123279
Included Lab Sample IDs: 2456672, 2456673

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	101	101	P/P	90 - 110
Antimony	104	102	P/P	90 - 110
Arsenic	104	102	P/P	90 - 110
Barium	100	101	P/P	90 - 110
Beryllium	98.4	99.1	P/P	90 - 110
Boron	105	105	P/P	90 - 110
Cadmium	102	101	P/P	90 - 110
Copper	99.6	97.3	P/P	90 - 110
Lead	96.5	96.6	P/P	90 - 110
Manganese	102	102	P/P	90 - 110
Molybdenum	103	102	P/P	90 - 110
Nickel	101	99.0	P/P	90 - 110
Selenium	104	101	P/P	90 - 110
Silver	101	99.8	P/P	90 - 110
Thallium	99.3	99.4	P/P	90 - 110

Reference Method: SM 5310 B-2014
Run ID: A123280
Included Lab Sample IDs: 2456640, 2456642

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	100	123	P/P	85 - 115

Reference Method: SM 2320 B-2011
Run ID: A123283
Included Lab Sample IDs: 2456639, 2456641

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.1	98.2	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A123283
Included Lab Sample IDs: 2456639, 2456641

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits

Quality Assurance Report
Calibration Verification

Reference Method: SM 4500-F- C-2011
Run ID: A123283
Included Lab Sample IDs: 2456639, 2456641

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	104	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A123287
Included Lab Sample IDs: 2456640, 2456642

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

Reference Method: EPA 8321B
Run ID: A123300
Included Lab Sample IDs: 2456660, 2456661, 2456663

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	150	146	P/P	60 - 160
Endothall	121	155	P/P	60 - 160
Glufosinate	151	148	P/P	60 - 160
Glyphosate	155	157	P/P	60 - 160

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A123304
Included Lab Sample IDs: 2456640, 2456642

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	102	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A123325
Included Lab Sample IDs: 2456640, 2456642

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.9	100	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A123338
Included Lab Sample IDs: 2456639, 2456641

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.4	102	P/P	90 - 110
Sulfate	99.8	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A123343
Included Lab Sample IDs: 2456640, 2456642

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.4	99.0	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A123364
Included Lab Sample IDs: 2456672, 2456673

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chromium	97.2	98.0	P/P	90 - 110
Cobalt	96.1	96.2	P/P	90 - 110
Nickel	96.8	96.4	P/P	90 - 110

Reference Method: EPA 8276
Run ID: A123401
Included Lab Sample IDs: 2456665, 2456667, 2456668

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	90.0		P	80 - 120
Chlordane	96.7		P	80 - 120
Toxaphene	84.9		P	80 - 120
Toxaphene	97.3		P	80 - 120

Reference Method: EPA 8321B
Run ID: A123422
Included Lab Sample IDs: 2456659, 2456662

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	102	107	P/P	60 - 150
3-Hydroxycarbofuran	110	102	P/P	60 - 150
Aldicarb	114	93.2	P/P	60 - 150
Aldicarb	96.1	114	P/P	60 - 150
Aldicarb Sulfone	110	110	P/P	50 - 150
Aldicarb Sulfone	110	112	P/P	50 - 150
Aldicarb Sulfoxide	111	113	P/P	50 - 150
Aldicarb Sulfoxide	113	116	P/P	50 - 150
Carbaryl	116	114	P/P	60 - 150
Carbaryl	97.5	116	P/P	60 - 150
Carbofuran	104	115	P/P	50 - 150
Carbofuran	115	109	P/P	50 - 150
Methiocarb	106	103	P/P	50 - 150
Methiocarb	90.1	106	P/P	50 - 150
Methomyl	107	111	P/P	50 - 150
Methomyl	108	107	P/P	50 - 150
Oxamyl	108	107	P/P	50 - 150
Oxamyl	108	108	P/P	50 - 150
Propoxur	106	121	P/P	50 - 150
Propoxur	121	115	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A123440
Included Lab Sample IDs: 2456665, 2456667, 2456668

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	98.1		P	80 - 120
PCB-1260	89.0		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A123444
Included Lab Sample IDs: 2456665, 2456667, 2456668

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	105		P	80 - 120
Alpha-BHC	98.0		P	80 - 120
Alpha-Chlordane	110		P	80 - 120
Beta-BHC	105		P	80 - 120
Beta-Cyfluthrin	99.4		P	80 - 120
Bifenthrin	114		P	80 - 120
Chlorothalonil	97.7		P	80 - 120
Cis-Nonachlor	95.8		P	80 - 120
Cypermethrin	96.5		P	80 - 120
Dacthal	86.8		P	80 - 120
DDD-p,p'	104		P	80 - 120
DDE-p,p'	110		P	80 - 120
DDT-p,p'	102		P	80 - 120
Delta-BHC	105		P	80 - 120
Deltamethrin	100		P	80 - 120
Dichlobenil	111		P	80 - 120
Dicofol	96.7		P	80 - 120
Dieldrin	104		P	80 - 120
Endosulfan I	102		P	80 - 120
Endosulfan II	97.5		P	80 - 120
Endosulfan Sulfate	97.8		P	80 - 120
Endrin	104		P	80 - 120
Endrin Aldehyde	100		P	80 - 120
Endrin Ketone	101		P	80 - 120
Esfenvalerate	103		P	80 - 120
Ethalfluralin	93.4		P	80 - 120
Fenpropathrin	110		P	80 - 120
Gamma-BHC	111		P	80 - 120
Gamma-Chlordane	115		P	80 - 120
Heptachlor	115		P	80 - 120
Heptachlor Epoxide	98.0		P	80 - 120
Hexachlorobenzene	99.6		P	80 - 120
Kepone	101		P	80 - 120
Lambda-Cyhalothrin	96.5		P	80 - 120
Methoprene	100		P	80 - 120
Methoxychlor	107		P	80 - 120
MGK-264	116		P	80 - 120
Mirex	104		P	80 - 120
Oxychlordane	113		P	80 - 120
Permethrin	98.1		P	80 - 120
Phenothrin	99.9		P	80 - 120
Piperonyl Butoxide	110		P	80 - 120
Prallethrin	102		P	80 - 120
Tau-Fluvalinate	100		P	80 - 120
Tetramethrin	101		P	80 - 120
Trans-Nonachlor	105		P	80 - 120
Triclosan Methyl	109		P	80 - 120
Trifluralin	99.2		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A123510
Included Lab Sample IDs: 2456664, 2456666, 2456669

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	107		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	97.3		P	80 - 120
Avobenzone	107		P	80 - 120
Dechlorane 602	114		P	80 - 120
Dechlorane 603	111		P	80 - 120
Dechlorane Plus	110		P	80 - 120
Hexabromobenzene	87.9		P	80 - 120
Octinoxate	104		P	80 - 120
Oxybenzone	103		P	80 - 120
PBB-153	101		P	80 - 120
PBDE-47	102		P	80 - 120
PBDE-99	106		P	80 - 120
Pentabromotoluene	104		P	80 - 120
Tetradecachloro-m-terphenyl	102		P	80 - 120
Tri-o-cresyl Phosphate	113		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	104		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	98.0		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	107		P	80 - 120

Reference Method: EPA 8270E
Run ID: A123555
Included Lab Sample IDs: 2456664, 2456666, 2456669

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	93.4		P	80 - 120
Alachlor	113		P	80 - 120
Ametryn	98.6		P	80 - 120
Atrazine	110		P	80 - 120
Atrazine Desethyl	68.1*		F	80 - 120
Azinphos Methyl	90.7		P	80 - 120
Azoxystrobin	104		P	80 - 120
Bromacil	107		P	80 - 120
Butylate	91.4		P	80 - 120
Caffeine	95.9		P	80 - 120
Carbophenothion	112		P	80 - 120
Carfentrazone Ethyl	103		P	80 - 120
Chlorfenapyr	104		P	80 - 120
Chlorpyrifos Ethyl	94.2		P	80 - 120
Chlorpyrifos Methyl	80.1		P	80 - 120
Coumaphos	96.7		P	80 - 120
Cyanazine	88.9		P	80 - 120
Cyprodinil	111		P	80 - 120
Demeton	112		P	80 - 120
Diazinon	129*		F	80 - 120
Difenoconazole	97.6		P	80 - 120
Dimethenamid	116		P	80 - 120
Dimethomorph	97.9		P	80 - 120
Disulfoton	71.3*		F	80 - 120
Dithiopyr	116		P	80 - 120
EPTC	115		P	80 - 120
Ethion	118		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A123555
Included Lab Sample IDs: 2456664, 2456666, 2456669

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ethoprop	107		P	80 - 120
Etridiazole	115		P	80 - 120
Fenamiphos	110		P	80 - 120
Fenbuconazole	104		P	80 - 120
Fipronil	93.7		P	80 - 120
Fipronil Desulfinyl	84.0		P	80 - 120
Fipronil Sulfide	83.6		P	80 - 120
Fipronil Sulfone	107		P	80 - 120
Fluazifop-P-butyl	111		P	80 - 120
Fludioxonil	104		P	80 - 120
Flumioxazin	93.4		P	80 - 120
Flutolanil	107		P	80 - 120
Fluxapyroxad	90.1		P	80 - 120
Fonofos	184*		F	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	112		P	80 - 120
Iprodione	98.2		P	80 - 120
Loratadine	84.4		P	80 - 120
Malathion	98.8		P	80 - 120
Metalaxyl	104		P	80 - 120
Metolachlor	94.1		P	80 - 120
Metribuzin	107		P	80 - 120
Mevinphos	107		P	80 - 120
Molinate	117		P	80 - 120
Myclobutanil	113		P	80 - 120
Naled	85.4		P	80 - 120
Napropamide	116		P	80 - 120
Norflurazon	114		P	80 - 120
Oxadiazon	105		P	80 - 120
Oxyfluorfen	112		P	80 - 120
Parathion Ethyl	104		P	80 - 120
Parathion Methyl	94.1		P	80 - 120
Pendimethalin	119		P	80 - 120
Phenytoin	110		P	80 - 120
Phorate	80.5		P	80 - 120
Prodiamine	90.3		P	80 - 120
Prometon	115		P	80 - 120
Prometryn	112		P	80 - 120
Pronamide	99.1		P	80 - 120
Propanil	102		P	80 - 120
Propargite	108		P	80 - 120
Propiconazole	114		P	80 - 120
Pyraflufen Ethyl	113		P	80 - 120
Pyridaben	93.4		P	80 - 120
Pyriproxyfen	84.5		P	80 - 120
Simazine	87.5		P	80 - 120
Stirophos	106		P	80 - 120
Sulfentrazone	99.1		P	80 - 120
Tebuconazole	96.2		P	80 - 120
Terbufos	123*		F	80 - 120
Terbuthylazine	94.5		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A123555
Included Lab Sample IDs: 2456664, 2456666, 2456669

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Thiobencarb	94.2		P	80 - 120
Triadimefon	83.0		P	80 - 120

Reference Method: EPA 8270E
Run ID: A123560
Included Lab Sample IDs: 2456664

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	97.5		P	80 - 120

Reference Method: EPA 8270E
Run ID: A123625
Included Lab Sample IDs: 2456669

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Oxybenzone	101		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	101		P	80 - 120

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

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision		
						LCS	SMP	MS
DEP SOP: NU-094-1	Color (true)	99.2					5.89	
EPA 180.1 Rev. 2.0	Turbidity	104					10.5	
EPA 200.7 Rev. 4.4	Calcium	104	104	104				1.21
	Iron	111	111	110	116			0.779
	Magnesium	112	112	110	111			0.912
	Potassium	101	102	102				0.477
	Sodium	102	103	102				0.891
	Strontium	99.5	100	99.4	98.4			0.853
	Tin	98.8	94.9	94.6	96.4			0.277
	Titanium	102	98.6	97.8	101			0.755
	Vanadium	100	98.8	98.7	100			0.120
	Zinc	97.9	94.5	95.7	96.9			1.16
EPA 200.8 Rev. 5.4	Aluminum	101	95.0	103	99.6			4.70
	Antimony	102	101	101	102			0.264
	Arsenic	102	102	103	101			0.497
	Barium	103	101	103	100			2.04
	Beryllium	96.0	95.7	96.6	96.3			0.842
	Boron	103	111	112	107			0.629
	Cadmium	101	99.5	102	98.5			2.79
	Chromium	104	107	106				1.31
	Cobalt	101	101	99.8				1.34
	Copper	98.2	97.0	98.7	96.1			1.62
	Lead	95.5	96.1	98.2	96.4			2.14
	Manganese	101						2.03
	Molybdenum	98.7	97.8	100	101			2.52
	Nickel	101	99.6	101	98.3			1.28
	Nickel	100	101	98.8				2.08
	Selenium	103	98.0	102	102			3.80
	Silver	101	99.0	100	99.1			1.34
	Thallium	100	104	106	104			1.96
EPA 300.0 Rev. 2.1	Chloride	101	99.8	99.4			3.17	
	Sulfate	100	98.5				2.89	
EPA 350.1 Rev. 2.0	Ammonia-N	97.4	104	104				0.102
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	107	111	94.8				8.88
EPA 353.2 Rev. 2.0	NO2NO3-N	101	98.3	97.3				0.844
EPA 365.1 Rev. 2.0	Total-P	102	110	107				2.15
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	123	75.6	76.1				0.559
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	89.4	72.3	83.3				14.2
	Acetochlor	134	116	87.5				27.8
	Alachlor	118	104	85.7				19.5
	Aldrin	53.6	47.1	44.5				5.75
	Alpha-BHC	79.1	73.0	68.5				6.30
	Alpha-Chlordane	70.5						4.49
	Ametryn	124	107	110				2.74
	Atrazine	111						4.42
	Atrazine Desethyl	104	100	93.2				7.07
	Avobenzone	143	67.3	90.3				29.2
	Azinphos Methyl	139	99.4	106				5.98
	Azoxystrobin	111	75.4	90.0				9.83
	Beta-BHC	93.9	80.0	73.5				8.55
	Beta-Cyfluthrin	51.8	61.1	65.9				7.62

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Bifenthrin	48.0	57.3	72.4			23.2
	Bromacil	124	88.6	94.3			4.51
	Butylate	65.1	33.0	32.6			1.22
	Caffeine	88.3					7.12
	Carbophenothion	89.1	73.8	74.3			0.720
	Carfentrazone Ethyl	95.4	95.6	90.2			5.77
	Chlorfenapyr	75.6	75.1	73.2			1.15
	Chlorothalonil	54.8	103	113			9.15
	Chlorpyrifos Ethyl	112	75.3	90.4			18.1
	Chlorpyrifos Methyl	129	119	91.6			26.3
	Cis-Nonachlor	79.0	49.8	62.5			22.6
	Coumaphos	104	85.2	91.0			6.68
	Cyanazine	167	108	114			6.13
	Cypermethrin	47.6	63.9	74.6			15.5
	Cyprodinil	116	94.6	116			20.5
	Dacthal	75.4	61.9	60.0			3.05
	DDD-p,p'	79.2	54.7	72.4			27.9
	DDE-p,p'	80.1	56.3	62.9			11.1
	DDT-p,p'	77.8	53.5	53.6			0.181
	Dechlorane 602	113	72.5	68.7			5.35
	Dechlorane 603	86.7	78.9	88.9			11.9
	Dechlorane Plus	93.0	71.4	86.6			19.3
	Delta-BHC	96.3	88.8	84.9			4.55
	Deltamethrin	57.1	48.6	57.6			16.9
	Demeton	98.6	58.3	59.4			1.82
	Diazinon	126	79.6	85.1			6.67
	Dichlobenil	92.7	64.1	124			63.9
	Dicofol	72.7	62.2	62.5			0.376
	Dieldrin	81.9					12.6
	Difenoconazole	106	91.4	105			14.3
	Dimethenamid	117	76.7	76.5			0.173
	Dimethomorph	105	81.1	103			23.5
	Disulfoton	142	0.0	0.0			
	Dithiopyr	117	64.2	58.1			9.89
	Endosulfan I	79.7	68.6	67.4			1.73
	Endosulfan II	91.5	73.3	90.2			20.7
	Endosulfan Sulfate	83.9	64.7	67.9			4.80
	Endrin	79.9	69.5	71.6			2.86
	Endrin Aldehyde	73.4	50.5	49.9			1.25
	Endrin Ketone	80.3	66.1	81.1			18.9
	EPTC	67.5	34.4	41.8			19.4
	Esfenvalerate	63.2	64.4	86.5			29.2
	Ethalfluralin	78.1	73.4	72.6			1.02
	Ethion	87.3	76.9	68.5			11.5
	Ethoprop	113	104	117			11.0
	Etridiazole	81.9	37.5	48.6			25.8
	Fenamiphos	122	34.6	34.7			0.356
	Fenbuconazole	126	107	105			1.59
	Fenpropathrin	66.7	64.7	73.6			13.0
	Fipronil	95.6					12.9
	Fipronil Desulfinyl	101	80.7	62.1			20.0
	Fipronil Sulfide	87.0	50.3	34.7			8.39
	Fipronil Sulfone	85.3	75.0	71.8			1.83
	Fluazifop-P-butyl	87.6	68.8	63.7			7.80

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Fludioxonil	90.6	75.2	75.9			0.504
	Flumioxazin	109	87.4	105			18.1
	Flutolanil	107	85.4	84.3			1.32
	Fluxapyroxad	108	76.2	77.5			1.43
	Fonofos	122	0.0	0.0			
	Gamma-BHC	102	81.3	75.6			7.20
	Gamma-Chlordane	83.9	44.4	49.7			5.28
	Heptachlor	76.3	57.8	66.0			13.3
	Heptachlor Epoxide	84.0					1.96
	Hexabromobenzene	76.9	82.0	90.7			10.1
	Hexachlorobenzene	61.0	52.9	66.1			22.0
	Hexazinone	118	92.1	95.9			4.10
	Imazalil	110	117	133			13.0
	Iprodione	120	106	86.1			20.7
	Kepone	138	130	127			2.32
	Lambda-Cyhalothrin	48.1	67.6	72.0			6.34
	Loratadine	93.0					4.63
	Malathion	122	80.9	79.7			1.44
	Metalaxyl	101	65.8	77.0			15.7
	Methoprene	46.6	56.5	59.0			4.28
	Methoxychlor	77.6	65.9	78.9			18.0
	Metolachlor	98.9	70.4	71.3			1.23
	Metribuzin	105	97.5	85.8			11.8
	Mevinphos	105	99.6	102			2.75
	MGK-264	94.7	71.8	73.0			1.58
	Mirex	60.8	55.2	54.0			2.28
	Molinate	79.7	51.4	43.4			16.8
	Myclobutanil	111	102	97.5			4.07
	Naled	49.9	65.5	66.6			1.66
	Napropamide	97.9	62.0	62.2			0.421
	Norflurazon	109	77.9	85.3			9.12
	Octinoxate	182	112	122			8.58
	Oxadiazon	81.4	56.0	52.4			4.92
	Oxybenzone	113	81.1	88.4			8.65
	Oxybenzone	77.8	86.9	79.9			8.39
	Oxychlordane	79.4	78.1	79.6			1.91
	Oxyfluorfen	103	86.6	78.9			9.37
	Parathion Ethyl	114	101	97.3			3.79
	Parathion Methyl	115	112	121			7.83
	PBB-153	70.7	71.9	83.2			14.5
	PBDE-47	103	76.3	80.8			5.75
	PBDE-99	108	73.1	80.8			9.92
	PCB-1016	67.3	57.4	57.3			0.0537
	PCB-1260	62.8	53.1	55.7			4.88
	Pendimethalin	129	119	93.6			23.9
	Pentabromotoluene	106	80.7	88.7			9.45
	Permethrin	68.8	68.0	68.3			0.356
	Phenothrin	52.1	55.2	58.7			6.05
	Phenytoin	137	86.9	87.4			0.300
	Phorate	115	57.4	76.3			28.2
	Piperonyl Butoxide	92.2	73.4	74.2			0.986
	Prallethrin	91.0	60.0	59.6			0.725
	Prodiamine	125	76.1	95.5			22.7
	Prometon	120	122	106			14.2

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Prometryn	124	94.5	105			11.0
	Pronamide	147	108	134			20.9
	Propanil	93.9	66.1	66.4			0.450
	Propargite	114	84.2	77.7			8.09
	Propiconazole	112	91.7	109			10.7
	Pyraflufen Ethyl	110	83.3	97.5			15.6
	Pyridaben	131	102	107			4.73
	Pyriproxyfen	108	88.7	86.8			2.21
	Simazine	111	128	134			4.06
	Stirophos	72.2	53.6	52.7			1.57
	Sulfentrazone	108	73.7	79.2			4.85
	Tau-Fluvalinate	54.5	55.5	71.1			24.8
	Tebuconazole	113	80.9	77.6			1.93
	Terbufos	105	20.6	15.9			26.3
	Terbuthylazine	109	85.0	96.5			12.7
	Tetradecachloro-m-terphenyl	96.3	98.7	68.5			36.1
	Tetramethrin	47.0	77.5	67.7			13.6
	Thiobencarb	109	85.2	89.2			4.56
	Trans-Nonachlor	77.3	63.3	62.1			1.24
	Tri-o-cresyl Phosphate	132	89.1	98.1			9.65
	Triadimefon	92.2	79.3	68.3			14.8
	Triclosan Methyl	82.1	59.9	63.2			5.36
	Trifluralin	68.4	67.4	58.2			14.6
	Tris(1-chloro-2-propyl) phosphate (TCPP)	105					8.32
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	118					0.694
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	85.6	95.3	85.4			10.6
	Tris(2-chloroethyl) phosphate (TCEP)	119	93.0	81.8			10.6
EPA 8276	Chlordane	71.7	62.5	74.3			17.3
	Toxaphene	77.0	77.3	98.8			24.3
EPA 8321B	2,4-D	106	96.0	103			7.24
	2,4,5-T	115	90.8	92.2			1.61
	3-Hydroxycarbofuran	62.1	84.2	71.9			15.8
	Acesulfame K	122	117	118			0.336
	Acetaminophen	50.5	52.7	46.3			12.9
	Acetamiprid	80.0	96.9	90.8			6.55
	Afidopyropen	67.8	75.6	87.2			14.2
	Aldicarb	60.9	57.4	63.4			9.98
	Aldicarb Sulfone	88.5	83.8	90.8			7.92
	Aldicarb Sulfoxide	103	40.7	43.9			7.62
	AMPA	96.7	93.4	93.6			0.169
	Bentazon	73.4	70.0	70.8			1.23
	Benzovindiflupyr	84.5	80.2	88.2			9.50
	Carbamazepine	86.4	90.1	81.6			9.88
	Carbaryl	62.5	59.1	62.5			5.56
	Carbofuran	65.7	62.0	63.0			1.70
	Clothianidin	93.9	95.4	86.7			9.59
	Dinotefuran	108	107	98.0			9.12
	Diuron	86.8	79.6	74.3			6.97
	Endothall	98.6	92.1	103			11.2
	Fenuron	91.8	85.4	77.5			9.67
	Fluridone	95.9	82.8	97.4			16.2

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Glufosinate	97.0	95.3	89.3			6.54
	Glyphosate	92.6	73.5	72.6			1.28
	Hydrocodone	96.9	98.2	89.1			9.72
	Ibuprofen	70.2	68.9	69.9			1.42
	Imazapyr	92.4	88.2	100			11.9
	Imidacloprid	91.2	103	92.8			10.6
	Linuron	80.4	70.5	72.3			2.52
	Mandestrobin	94.1	89.4	94.6			5.71
	MCPP	101	92.5	97.3			4.98
	Methiocarb	51.5	61.8	61.3			0.819
	Methomyl	78.9	75.2	75.4			0.285
	Naproxen	74.6	82.2	80.0			2.65
	Oxamyl	81.3	70.9	73.6			3.81
	Primidone	89.0	84.8	81.1			4.49
	Propoxur	63.8	58.4	62.5			6.70
	Pyraclostrobin	82.9	77.0	81.9			6.10
	Silvex	88.1	84.3	92.5			9.31
	Sucralose	99.2	96.1	105			8.83
	Thiamethoxam	96.2	89.2	81.1			9.48
	Tolfenpyrad	58.8	49.2	51.6			4.77
	Triclopyr	120	92.9	100			7.31
SM 2320 B-2011	Total Alkalinity	99.3				0.584	
SM 2540 C-2015	TDS	93.6				1.82	
SM 2540 D-2015	TSS	95.2					
SM 4500-F- C-2011	Fluoride	104	103	102			0.993
SM 5310 B-2014	Organic Carbon	97.6	100	100			0.130

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2456639, 2456641
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2456639, 2456641
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2456672, 2456673
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2456672, 2456673
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2456639, 2456641
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2456639, 2456641
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2456640, 2456642
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2456640, 2456642
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2456640, 2456642
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2456640, 2456642
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2456664, 2456666, 2456669
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2456665, 2456667, 2456668
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2456664, 2456666, 2456669
EPA 8270E	PCBs in water matrices by GC/MS/MS	2456665, 2456667, 2456668
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2456665, 2456667, 2456668
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2456659, 2456662
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2456660, 2456661, 2456663
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2456639, 2456641
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2456672, 2456673
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2456639, 2456641

Reference Method Descriptions

Method	Description	Associated Samples
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2456639, 2456641
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2456639, 2456641
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2456640, 2456642

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	12/13/2023			12/13/2023 15:44	Chandler E Cox	2456639
	12/13/2023			12/13/2023 15:45	Chandler E Cox	2456641
EPA 180.1 Rev. 2.0	12/13/2023			12/13/2023 15:52	Anna M. Plaviak	2456639
	12/13/2023			12/13/2023 15:56	Anna M. Plaviak	2456641
EPA 200.7 Rev. 4.4	12/13/2023	12/14/2023 13:30	George D Taylor	12/15/2023 21:57	Chase Roberts	2456672
	12/13/2023	12/14/2023 13:30	George D Taylor	12/15/2023 22:03	Chase Roberts	2456673
EPA 200.8 Rev. 5.4	12/13/2023	12/14/2023 13:30	George D Taylor	12/15/2023 17:56	Emily M Philpot	2456672
	12/13/2023	12/14/2023 13:30	George D Taylor	12/15/2023 18:06	Emily M Philpot	2456673
	12/13/2023	12/20/2023 11:52	Vijayalakshmi Reddy	12/20/2023 16:16	Emily M Philpot	2456672
	12/13/2023	12/20/2023 11:52	Vijayalakshmi Reddy	12/20/2023 16:26	Emily M Philpot	2456673
EPA 300.0 Rev. 2.1	12/13/2023			12/21/2023 13:22	James L Waggerby	2456639
	12/13/2023			12/21/2023 13:37	James L Waggerby	2456641
EPA 350.1 Rev. 2.0	12/13/2023			12/19/2023 15:25	Khloe J Berg	2456640
	12/13/2023			12/19/2023 15:26	Khloe J Berg	2456642
EPA 351.2 Rev. 2.0	12/13/2023	12/15/2023 13:48	Simonne.V. Calhoun	12/19/2023 15:19	Samantha L Bates	2456640
	12/13/2023	12/15/2023 13:48	Simonne.V. Calhoun	12/19/2023 15:21	Samantha L Bates	2456642
EPA 353.2 Rev. 2.0	12/13/2023			12/18/2023 12:55	Fadila Guebre	2456640
	12/13/2023			12/18/2023 12:57	Fadila Guebre	2456642
EPA 365.1 Rev. 2.0	12/13/2023	12/15/2023 12:55	Adam P Silver	12/18/2023 11:27	Chandler E Cox	2456642
	12/13/2023	12/15/2023 12:55	Adam P Silver	12/18/2023 11:31	Chandler E Cox	2456640
EPA 8270E	12/13/2023	01/10/2024 12:30	Rasheda Ghaffari	01/12/2024 20:04	Arthur Maknenko	2456669
	12/13/2023	12/18/2023 08:30	Rasheda Ghaffari	01/05/2024 02:08	Arthur Maknenko	2456664
	12/13/2023	12/18/2023 08:30	Rasheda Ghaffari	01/05/2024 02:34	Arthur Maknenko	2456666
	12/13/2023	12/18/2023 08:30	Rasheda Ghaffari	01/05/2024 03:01	Arthur Maknenko	2456669
	12/13/2023	12/18/2023 08:30	Rasheda Ghaffari	12/24/2023 00:56	Vandana T. Nagar	2456664
	12/13/2023	12/18/2023 08:30	Rasheda Ghaffari	12/24/2023 01:25	Vandana T. Nagar	2456666
	12/13/2023	12/18/2023 08:30	Rasheda Ghaffari	12/24/2023 01:54	Vandana T. Nagar	2456669
	12/13/2023	12/18/2023 08:30	Rasheda Ghaffari	12/27/2023 14:05	Vandana T. Nagar	2456664
	12/13/2023	12/19/2023 08:15	Rasheda Ghaffari	12/23/2023 01:03	Lipi Saha	2456665
	12/13/2023	12/19/2023 08:15	Rasheda Ghaffari	12/23/2023 01:33	Lipi Saha	2456667
	12/13/2023	12/19/2023 08:15	Rasheda Ghaffari	12/23/2023 02:03	Lipi Saha	2456668
	12/13/2023	12/19/2023 08:15	Rasheda Ghaffari	12/28/2023 06:18	Julie Wi	2456665
	12/13/2023	12/19/2023 08:15	Rasheda Ghaffari	12/28/2023 06:50	Julie Wi	2456667
	12/13/2023	12/19/2023 08:15	Rasheda Ghaffari	12/28/2023 07:23	Julie Wi	2456668
EPA 8276	12/13/2023	12/19/2023 08:15	Rasheda Ghaffari	12/22/2023 10:40	Kenedi Mills	2456665
	12/13/2023	12/19/2023 08:15	Rasheda Ghaffari	12/22/2023 11:35	Kenedi Mills	2456667
	12/13/2023	12/19/2023 08:15	Rasheda Ghaffari	12/22/2023 13:26	Kenedi Mills	2456668
EPA 8321B	12/13/2023	12/13/2023 14:30	Hana Lee	12/13/2023 19:19	Tae K Lee	2456660
	12/13/2023	12/13/2023 14:30	Hana Lee	12/13/2023 19:33	Tae K Lee	2456661
	12/13/2023	12/13/2023 14:30	Hana Lee	12/13/2023 19:47	Tae K Lee	2456663

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	12/13/2023	12/13/2023 14:30	Hana Lee	12/16/2023 00:47	Tae K Lee	2456660
	12/13/2023	12/13/2023 14:30	Hana Lee	12/16/2023 01:01	Tae K Lee	2456661
	12/13/2023	12/13/2023 14:30	Hana Lee	12/16/2023 01:14	Tae K Lee	2456663
	12/13/2023	12/14/2023 09:00	Hoor Shaik	12/14/2023 21:06	Juyoung Kim	2456660
	12/13/2023	12/14/2023 09:00	Hoor Shaik	12/14/2023 21:24	Juyoung Kim	2456661
	12/13/2023	12/14/2023 09:00	Hoor Shaik	12/14/2023 21:42	Juyoung Kim	2456663
	12/13/2023	12/19/2023 08:30	Hoor Shaik	12/19/2023 17:25	Juyoung Kim	2456659
	12/13/2023	12/19/2023 08:30	Hoor Shaik	12/19/2023 18:00	Juyoung Kim	2456662
SM 2320 B-2011	12/13/2023			12/16/2023 06:03	Chandler E Cox	2456639
	12/13/2023			12/16/2023 06:17	Chandler E Cox	2456641
SM 2340 B-2011	12/13/2023			12/15/2023 21:57	Chase Roberts	2456672
	12/13/2023			12/15/2023 22:03	Chase Roberts	2456673
SM 2540 C-2015	12/13/2023			12/15/2023 15:49	Yijie Li	2456639, 2456641
SM 2540 D-2015	12/13/2023			12/15/2023 15:49	Yijie Li	2456639, 2456641
SM 4500-F- C-2011	12/13/2023			12/16/2023 06:03	Chandler E Cox	2456639
	12/13/2023			12/16/2023 06:17	Chandler E Cox	2456641
SM 5310 B-2014	12/13/2023			12/16/2023 10:11	Kenneth H Lee	2456640
	12/13/2023			12/16/2023 10:24	Kenneth H Lee	2456642