Chemical Analysis Report

SE-DIST-2024-03-27-02

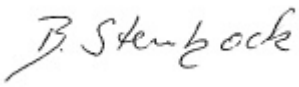
Florida DEP Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **SMP - Goat Creek/Local**
Request ID: **RQ-2024-03-04-69**
Customer: **SE-DIST**
Project ID: **SMP**

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

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: Dr. rer. nat. Bettina Steinbock, Environmental Administrator Date Certified: 17-APR-2024 15:48



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: 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: FORT PIERCE FARM CANAL AT TAYLOR DAIRY **Collection Date/Time: 03/26/2024 09:10**

Field ID: G2SE0002 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2477906	DEP SOP: NU-094-1	Color (true)	34		PCU	P443406	
	EPA 180.1 Rev. 2.0	Turbidity	10		NTU	P443393	
	EPA 300.0 Rev. 2.1	Chloride	430		mg Cl/L	P443665	
		Sulfate	110		mg SO4/L	P443668	
	SM 2320 B-2011	Total Alkalinity	208		mg CaCO3/L	P443657	
	SM 2540 C-2015	TDS	1.03E+03		mg/L	P443898	
	SM 2540 D-2015	TSS	12		mg/L	P443730	
	SM 4500-F- C-2011	Fluoride	0.49		mg F/L	P443677	
2477907	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P443575	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.74		mg N/L	P443427	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.037		mg N/L	P443571	
	EPA 365.1 Rev. 2.0	Total-P	0.12		mg P/L	P443444	
	SM 5310 B-2014	Organic Carbon	9.8		mg C/L	P443682	
2477923	EPA 8321B	Aldicarb	0.020	U	ug/L	P443471	
		Aldicarb Sulfone	0.0020	U	ug/L	P443471	
		Aldicarb Sulfoxide	0.0020	UJ	ug/L	P443471	MS
		Carbaryl	0.0020	U	ug/L	P443471	
		Carbofuran	0.0020	U	ug/L	P443471	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P443471	
		Methiocarb	0.0020	U	ug/L	P443471	
		Methomyl	0.0020	U	ug/L	P443471	
		Oxamyl	0.0020	U	ug/L	P443471	
		Propoxur	0.0020	U	ug/L	P443471	
2477924		2,4-D	0.28		ug/L	P443301	
		Acesulfame K	0.10	U	ug/L	P443330	
		2,4,5-T	0.0040	U	ug/L	P443301	
		AMPA	0.86		ug/L	P443330	
		Acetaminophen	0.0080	U	ug/L	P443301	
		Acetamiprid	0.0020	U	ug/L	P443301	
		Endothall	0.25	U	ug/L	P443330	
		Glufosinate	0.10	U	ug/L	P443330	
		Glyphosate	1.3		ug/L	P443330	
		Afidopyropen	0.0020	U	ug/L	P443301	RPD
		Bentazon	0.019		ug/L	P443301	
		Sucralose	0.27		ug/L	P443330	
		Benzovindiflupyr	0.0020	U	ug/L	P443301	
		Carbamazepine	8.0E-04	U	ug/L	P443301	
		Clothianidin	0.0020	U	ug/L	P443301	
		Dinotefuran	0.0020	U	ug/L	P443301	
		Diuron	0.0020	U	ug/L	P443301	
		Fenuron	0.032	U	ug/L	P443301	
		Fluridone	0.017		ug/L	P443301	
		Imazapyr	0.20		ug/L	P443301	

Field ID: G2SE0002 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2477924	EPA 8321B	Hydrocodone	0.0020	U	ug/L	P443301	
		Ibuprofen	0.080	U	ug/L	P443301	
		Imidacloprid	0.0026	I	ug/L	P443301	
		Linuron	0.0040	U	ug/L	P443301	
		Mandestrobin	0.0020	U	ug/L	P443301	
		MCPP	0.0020	U	ug/L	P443301	
		Naproxen	0.0080	U	ug/L	P443301	
		Primidone	0.0040	U	ug/L	P443301	
		Pyraclostrobin	0.0020	U	ug/L	P443301	
		Silvex	0.0040	U	ug/L	P443301	
		Thiamethoxam	0.0020	U	ug/L	P443301	
		Tolfenpyrad	0.0020	U	ug/L	P443301	
		Triclopyr	0.0040	U	ug/L	P443301	
2477927	EPA 8270E	Aldrin	0.67	U	ng/L	P443543	
		Alpha-BHC	0.10	UJ	ng/L	P443543	CCV
		Alpha-Chlordane	0.21	U	ng/L	P443543	
		PCB-1016	2.1	U	ng/L	P443543	
		Beta-BHC	0.10	U	ng/L	P443543	
		PCB-1221	2.1	U	ng/L	P443543	
		Beta-Cyfluthrin	1.3	U	ng/L	P443543	
		PCB-1232	2.1	U	ng/L	P443543	
		Bifenthrin	0.52	U	ng/L	P443543	
		PCB-1242	2.1	U	ng/L	P443543	
		PCB-1248	2.1	U	ng/L	P443543	
		Chlorothalonil	3.7	U	ng/L	P443543	
		PCB-1254	2.1	U	ng/L	P443543	
		Cis-Nonachlor	0.21	U	ng/L	P443543	
		PCB-1260	2.1	U	ng/L	P443543	
		Cypermethrin	1.6	U	ng/L	P443543	
		Dacthal	0.16	U	ng/L	P443543	
		DDD-p,p'	0.26	U	ng/L	P443543	
		DDE-p,p'	0.21	U	ng/L	P443543	
		DDT-p,p'	1.5	I	ng/L	P443543	
		Delta-BHC	0.41	U	ng/L	P443543	
		Deltamethrin	1.3	U	ng/L	P443543	
		Dichlobenil	0.26	U	ng/L	P443543	
		Dicofol	1.3	U	ng/L	P443543	
		Dieldrin	0.41	U	ng/L	P443543	
		Endosulfan I	0.41	U	ng/L	P443543	
		Endosulfan II	0.93	U	ng/L	P443543	
		Endosulfan Sulfate	0.31	U	ng/L	P443543	
		Endrin	0.93	U	ng/L	P443543	
		Endrin Aldehyde	0.78	U	ng/L	P443543	
		Endrin Ketone	0.41	U	ng/L	P443543	
		Esfenvalerate	0.78	U	ng/L	P443543	

Field ID: G2SE0002 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2477927	EPA 8270E	Ethalfluralin	0.16	U	ng/L	P443543	
		Fenpropathrin	0.26	U	ng/L	P443543	
		Gamma-BHC	0.13	U	ng/L	P443543	
		Gamma-Chlordane	0.21	U	ng/L	P443543	
		Heptachlor	0.21	U	ng/L	P443543	
		Heptachlor Epoxide	0.26	U	ng/L	P443543	
		Hexachlorobenzene**	1.0	U	ng/L	P443543	
		Kepone	14	U	ng/L	P443543	
		Lambda-Cyhalothrin	0.78	U	ng/L	P443543	
		Methoprene	0.78	U	ng/L	P443543	
		Methoxychlor	0.31	U	ng/L	P443543	
		MGK-264	0.21	U	ng/L	P443543	
		Mirex	0.36	U	ng/L	P443543	
		Oxychlordane	0.31	U	ng/L	P443543	
		Permethrin	1.7	U	ng/L	P443543	
		Phenothrin	0.93	U	ng/L	P443543	
		Piperonyl Butoxide	0.16	U	ng/L	P443543	
		Prallethrin	2.1	U	ng/L	P443543	
		Tau-Fluvalinate	0.26	U	ng/L	P443543	
		Tetramethrin	0.78	U	ng/L	P443543	
		Trans-Nonachlor	0.21	U	ng/L	P443543	
		Triclosan Methyl	0.16	U	ng/L	P443543	
		Trifluralin	0.21	U	ng/L	P443543	
	EPA 8276	Chlordane	2.1	U	ng/L	P443543	
		Toxaphene	16	U	ng/L	P443543	
2477928	EPA 8270E	Oxybenzone**	10	UJ	ng/L	P443399	SUR
		Acetochlor	0.21	U	ng/L	P443399	
		Octinoxate**	150	UJ	ng/L	P443399	SUR
		Alachlor	0.41	U	ng/L	P443399	
		Avobenzone**	100	UJ	ng/L	P443399	SUR
		Ametryn	1.1	U	ng/L	P443399	
		Atrazine	5.2		ng/L	P443399	
		PBDE-47**	4.1	UJ	ng/L	P443399	SUR
		Atrazine Desethyl	1.3	U	ng/L	P443399	
		PBDE-99**	5.2	UJ	ng/L	P443399	SUR
		Azinphos Methyl	3.1	U	ng/L	P443399	
		Tri-o-cresyl Phosphate**	6.2	UJ	ng/L	P443399	SUR
		Azoxystrobin	20	J	ng/L	P443399	
		Bromacil	14	J	ng/L	P443399	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	UJ	ng/L	P443399	SUR
		Butylate	0.46	U	ng/L	P443399	
		Dechlorane Plus**	31	UJ	ng/L	P443399	SUR
		Caffeine**	7.7	U	ng/L	P443399	
		Dechlorane 602**	5.2	UJ	ng/L	P443399	SUR

Field ID: G2SE0002 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2477928	EPA 8270E	Carbophenothion	0.52	U	ng/L	P443399	MS, RPD
		Dechlorane 603**	4.1	UJ	ng/L	P443399	SUR
		Carfentrazone Ethyl	2.9	J	ng/L	P443399	MS, RPD
		Hexabromobenzene**	6.2	UJ	ng/L	P443399	RPD, SUR
		Chlorfenapyr	0.31	U	ng/L	P443399	
		PBB-153**	6.2	UJ	ng/L	P443399	SUR
		Chlorpyrifos Ethyl	0.31	U	ng/L	P443399	
		Pentabromotoluene**	3.1	UJ	ng/L	P443399	SUR
		Chlorpyrifos Methyl	0.10	U	ng/L	P443399	
		Tris(2-chloroethyl) phosphate (TCEP)**	57	UJ	ng/L	P443399	SUR
		Coumaphos	1.1	U	ng/L	P443399	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	26	UJ	ng/L	P443399	SUR
		Cyanazine	5.2	U	ng/L	P443399	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	UJ	ng/L	P443399	SUR
		Cyprodinil	0.21	U	ng/L	P443399	
		Tetradecachloro-m-terphenyl**	7.7	UJ	ng/L	P443399	RPD, SUR
		Demeton	3.6	U	ng/L	P443399	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	62	UJ	ng/L	P443399	SUR
		Diazinon	0.13	U	ng/L	P443399	
		Difenoconazole	0.62	U	ng/L	P443399	
		Dimethenamid	0.10	U	ng/L	P443399	
		Dimethomorph	0.31	U	ng/L	P443399	RPD
		Disulfoton	0.62	U	ng/L	P443399	
		Dithiopyr	1.0	U	ng/L	P443399	
		EPTC	0.52	U	ng/L	P443399	
		Ethion	0.31	U	ng/L	P443399	
		Ethoprop	0.13	U	ng/L	P443399	
		Etridiazole	0.10	U	ng/L	P443399	
		Fenamiphos	0.46	U	ng/L	P443399	
		Fenbuconazole	0.52	U	ng/L	P443399	
		Fipronil	0.21	U	ng/L	P443399	
		Fipronil Desulfinyl**	0.10	U	ng/L	P443399	
		Fipronil Sulfide	0.28	I	ng/L	P443399	RPD
		Fipronil Sulfone	0.57	J	ng/L	P443399	MS
		Fluazifop-P-butyl	0.10	U	ng/L	P443399	MS
		Fludioxonil	0.86	J	ng/L	P443399	
		Flumioxazin	3.1	U	ng/L	P443399	RPD
		Flutolanil	1.5	J	ng/L	P443399	
		Fluxapyroxad	8.6	J	ng/L	P443399	RPD
		Fonofos	0.15	U	ng/L	P443399	
		Hexazinone	0.52	U	ng/L	P443399	
		Imazalil	0.67	U	ng/L	P443399	
		Iprodione	0.52	U	ng/L	P443399	RPD
		Loratadine**	0.31	U	ng/L	P443399	MS, RPD

Field ID: G2SE0002 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2477928	EPA 8270E	Malathion	0.36	U	ng/L	P443399	
		Metalaxyl	1.8	I	ng/L	P443399	
		Metolachlor	73	J	ng/L	P443399	
		Metribuzin	9.2	J	ng/L	P443399	
		Mevinphos	1.0	U	ng/L	P443399	
		Molinate	0.26	U	ng/L	P443399	
		Myclobutanil	0.36	U	ng/L	P443399	
		Naled	2.6	U	ng/L	P443399	
		Napropamide	0.72	U	ng/L	P443399	MS
		Norflurazon	1.0	U	ng/L	P443399	
		Oxadiazon	0.36	U	ng/L	P443399	
		Oxyfluorfen	0.21	U	ng/L	P443399	
		Parathion Ethyl	0.15	U	ng/L	P443399	
		Parathion Methyl	0.21	UJ	ng/L	P443399	LCS
		Pendimethalin	1.8	U	ng/L	P443399	
		Phenytoin**	5.5	U	ng/L	P443399	
		Phorate	0.26	U	ng/L	P443399	
		Prodiamine	0.21	U	ng/L	P443399	
		Prometon	3.1	U	ng/L	P443399	
		Prometryn	0.36	U	ng/L	P443399	
		Pronamide	0.10	U	ng/L	P443399	
		Propanil	0.10	U	ng/L	P443399	
		Propargite	0.82	U	ng/L	P443399	RPD
		Propiconazole	0.62	U	ng/L	P443399	
		Pyraflufen Ethyl	0.31	U	ng/L	P443399	
		Pyridaben	1.4	U	ng/L	P443399	
		Pyriproxyfen	0.26	U	ng/L	P443399	
		Simazine	0.26	U	ng/L	P443399	
		Stirophos	0.41	U	ng/L	P443399	
		Sulfentrazone	4.8	I	ng/L	P443399	MS
		Tebuconazole	1.4	U	ng/L	P443399	
		Terbufos	0.21	U	ng/L	P443399	
		Terbuthylazine	0.21	U	ng/L	P443399	
		Thiobencarb	0.52	U	ng/L	P443399	
		Triadimefon	0.15	U	ng/L	P443399	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for atrazine and simazine not assessed due to high content of this parameter in the sample spiked. Estimation for some analytes due to internal standard recovery exceeding control limits. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: BELCHER CANAL NEAR JOHNSTON RD **Collection Date/Time: 03/26/2024 09:40**

Field ID: G5SE0149 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2477910	DEP SOP: NU-094-1	Color (true)	63	A	PCU	P443404	
	EPA 180.1 Rev. 2.0	Turbidity	6.9		NTU	P443393	
	EPA 300.0 Rev. 2.1	Chloride	270		mg Cl/L	P443665	
		Sulfate	95		mg SO4/L	P443668	
	SM 2320 B-2011	Total Alkalinity	208		mg CaCO3/L	P443657	
	SM 2540 C-2015	TDS	814		mg/L	P443898	
	SM 2540 D-2015	TSS	10		mg/L	P443730	
	SM 4500-F- C-2011	Fluoride	0.35		mg F/L	P443677	
2477911	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P443575	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P443427	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P443468	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P443444	
	SM 5310 B-2014	Organic Carbon	16		mg C/L	P443670	
2477926	EPA 8321B	2,4-D	0.033		ug/L	P443301	
		Acesulfame K	0.10	U	ug/L	P443330	
		2,4,5-T	0.0040	U	ug/L	P443301	
		AMPA	1.1		ug/L	P443330	
		Acetaminophen	0.0080	U	ug/L	P443301	
		Acetamiprid	0.0020	U	ug/L	P443301	
		Endothall	0.25	U	ug/L	P443330	
		Glufosinate	0.10	U	ug/L	P443330	
		Glyphosate	3.3		ug/L	P443330	
		Afidopyropen	0.0020	U	ug/L	P443301	RPD
		Bentazon	0.0013	I	ug/L	P443301	
		Sucralose	0.032	I	ug/L	P443330	
		Benzovindiflupyr	0.0020	U	ug/L	P443301	
		Carbamazepine	8.0E-04	U	ug/L	P443301	
		Clothianidin	0.0020	U	ug/L	P443301	
		Dinotefuran	0.0020	U	ug/L	P443301	
		Diuron	0.0020	U	ug/L	P443301	
		Fenuron	0.032	U	ug/L	P443301	
		Fluridone	0.0019	I	ug/L	P443301	
		Imazapyr	0.65		ug/L	P443301	
		Hydrocodone	0.0020	U	ug/L	P443301	
		Ibuprofen	0.080	U	ug/L	P443301	
		Imidacloprid	0.0088		ug/L	P443301	
		Linuron	0.0040	U	ug/L	P443301	
		Mandestrobin	0.0020	U	ug/L	P443301	
		MCPP	0.0020	U	ug/L	P443301	
		Naproxen	0.0080	U	ug/L	P443301	
		Primidone	0.0040	U	ug/L	P443301	
		Pyraclostrobin	0.0020	U	ug/L	P443301	
		Silvex	0.0040	U	ug/L	P443301	
		Thiamethoxam	0.0020	U	ug/L	P443301	

Field ID: G5SE0149 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2477926	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P443301	
		Triclopyr	0.0040	U	ug/L	P443301	

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

Sample Location: C 25 WEST OF S99 **Collection Date/Time: 03/26/2024 10:00**

Field ID: G2SE0057 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2477908	DEP SOP: NU-094-1	Color (true)	70	A	PCU	P443407	
	EPA 180.1 Rev. 2.0	Turbidity	2.6		NTU	P443393	
	EPA 300.0 Rev. 2.1	Chloride	270		mg Cl/L	P443665	
		Sulfate	91		mg SO4/L	P443668	
	SM 2320 B-2011	Total Alkalinity	197		mg CaCO3/L	P443657	
	SM 2540 C-2015	TDS	812		mg/L	P443898	
	SM 2540 D-2015	TSS	5	I	mg/L	P443730	
	SM 4500-F- C-2011	Fluoride	0.34		mg F/L	P443677	
2477909	EPA 350.1 Rev. 2.0	Ammonia-N	0.009		mg N/L	P443575	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P443427	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P443468	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P443444	
	SM 5310 B-2014	Organic Carbon	17		mg C/L	P443682	
2477925	EPA 8321B	2,4-D	0.038		ug/L	P443301	
		Acesulfame K	0.10	U	ug/L	P443330	
		2,4,5-T	0.0040	U	ug/L	P443301	
		AMPA	1.1		ug/L	P443330	
		Acetaminophen	0.0080	U	ug/L	P443301	
		Acetamiprid	0.0020	U	ug/L	P443301	
		Endothall	0.25	U	ug/L	P443330	
		Glufosinate	0.10	U	ug/L	P443330	
		Glyphosate	4.8		ug/L	P443330	
		Afidopyropen	0.0020	U	ug/L	P443301	RPD
		Bentazon	8.9E-04	I	ug/L	P443301	
		Sucralose	0.025	I	ug/L	P443330	
		Benzovindiflupyr	0.0020	U	ug/L	P443301	
		Carbamazepine	8.0E-04	U	ug/L	P443301	
		Clothianidin	0.0020	U	ug/L	P443301	
		Dinotefuran	0.0020	U	ug/L	P443301	
		Diuron	0.0020	U	ug/L	P443301	
		Fenuron	0.032	U	ug/L	P443301	
		Fluridone	0.0017	I	ug/L	P443301	
		Imazapyr	1.3		ug/L	P443301	
		Hydrocodone	0.0020	U	ug/L	P443301	
		Ibuprofen	0.080	U	ug/L	P443301	
		Imidacloprid	0.0054	I	ug/L	P443301	
		Linuron	0.0040	U	ug/L	P443301	
		Mandestrobin	0.0020	U	ug/L	P443301	
		MCPP	0.0020	U	ug/L	P443301	
		Naproxen	0.0080	U	ug/L	P443301	
		Primidone	0.0040	U	ug/L	P443301	
		Pyraclostrobin	0.0020	U	ug/L	P443301	
		Silvex	0.0040	U	ug/L	P443301	
		Thiamethoxam	0.0020	U	ug/L	P443301	

Field ID: G2SE0057 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2477925	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P443301	
		Triclopyr	0.0040	U	ug/L	P443301	

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

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P443404

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P443406

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P443407

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P443393

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443665

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443668

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443575

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P443427

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443468

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443571

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443444

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

Reference Method: EPA 8270E
Batch ID: P443399

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P443399

Component	Result	Code	Units
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
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P443399

Component	Result	Code	Units
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: P443543

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P443543

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

Reference Method: EPA 8276
Batch ID: P443543

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

Reference Method: EPA 8321B
Batch ID: P443301

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P443301

Component	Result	Code	Units
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P443330

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: P443471

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

Reference Method: SM 2320 B-2011
Batch ID: P443657

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

Reference Method: SM 2540 C-2015
Batch ID: P443898

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P443730

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P443677

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 5310 B-2014
Batch ID: P443670

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

Reference Method: SM 5310 B-2014
Batch ID: P443682

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: P443404

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.2		P	90 - 110

Reference Method: DEP SOP: NU-094-1
Batch ID: P443406

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.5		P	90 - 110

Reference Method: DEP SOP: NU-094-1
Batch ID: P443407

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	96.7		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P443393

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443665

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443668

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443575

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P443427

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	95.3		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443468

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	104		P	90 - 110

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443571

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443444

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

Reference Method: EPA 8270E
Batch ID: P443399

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	65.0		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	102		P	37 - 154
Acetochlor	85.1		P	64 - 124
Alachlor	79.7		P	61 - 118
Ametryn	87.3		P	47 - 158
Atrazine	84.2		P	68 - 121
Atrazine Desethyl	89.8		P	30 - 119
Avobenzone	148		P	48 - 193
Azinphos Methyl	131		P	30 - 194
Azoxystrobin	110		P	58 - 154
Bromacil	91.7		P	47 - 126
Butylate	58.6		P	31 - 83.0
Caffeine	105		P	10 - 180
Carbophenothion	108		P	59 - 133
Carfentrazone Ethyl	109		P	59 - 147
Chlorfenapyr	92.5		P	52 - 118
Chlorpyrifos Ethyl	86.5		P	59 - 119
Chlorpyrifos Methyl	101		P	65 - 123
Coumaphos	134		P	11 - 223
Cyanazine	153		P	63 - 250
Cyprodinil	80.7		P	52 - 143
Dechlorane 602	67.7		P	23 - 142
Dechlorane 603	102		P	51 - 171
Dechlorane Plus	102		P	46 - 161
Demeton	78.1		P	42 - 119
Diazinon	98.6		P	67 - 132
Difenoconazole	187		P	12 - 204
Dimethenamid	89.9		P	53 - 113
Dimethomorph	111		P	13 - 238
Disulfoton	95.4		P	56 - 126
Dithiopyr	79.4		P	58 - 127
EPTC	47.6		P	31 - 78.0
Ethion	67.1		P	24 - 127
Ethoprop	92.3		P	60 - 118
Etridiazole	52.6		P	32 - 91.0
Fenamiphos	105		P	54 - 129
Fenbuconazole	78.0		P	31 - 162
Fipronil	86.3		P	56 - 131
Fipronil Desulfinyl	95.3		P	58 - 132
Fipronil Sulfide	96.5		P	51 - 123

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P443399

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fipronil Sulfone	103		P	50 - 125
Fluazifop-P-butyl	118		P	52 - 132
Fludioxonil	85.5		P	52 - 129
Flumioxazin	223		P	34 - 250
Flutolanil	94.6		P	45 - 128
Fluxapyroxad	84.7		P	31 - 150
Fonofos	82.0		P	60 - 116
Hexabromobenzene	99.0		P	52 - 165
Hexazinone	90.1		P	59 - 120
Imazalil	74.8		P	39 - 134
Iprodione	102		P	39 - 243
Loratadine	132		P	10 - 240
Malathion	98.7		P	53 - 145
Metalaxyl	76.8		P	59 - 120
Metolachlor	103		P	64 - 122
Metribuzin	96.9		P	33 - 128
Mevinphos	80.2		P	48 - 119
Molinate	56.5		P	42 - 89.0
Myclobutanil	76.2		P	54 - 129
Naled	68.9		P	10 - 138
Napropamide	89.7		P	40 - 122
Norflurazon	79.9		P	49 - 132
Octinoxate	106		P	29 - 176
Oxadiazon	82.7		P	50 - 115
Oxybenzone	96.1		P	45 - 145
Oxyfluorfen	97.6		P	62 - 149
Parathion Ethyl	85.5		P	68 - 119
Parathion Methyl	65.9		F	68 - 147
PBB-153	108		P	42 - 179
PBDE-47	90.4		P	44 - 141
PBDE-99	87.1		P	36 - 141
Pendimethalin	65.1		P	59 - 158
Pentabromotoluene	83.6		P	58 - 148
Phenytoin	61.8		P	10 - 151
Phorate	77.4		P	44 - 124
Prodiamine	46.9		P	10 - 136
Prometon	91.0		P	45 - 131
Prometryn	113		P	52 - 140
Pronamide	104		P	70 - 129
Propanil	119		P	54 - 144
Propargite	70.1		P	10 - 191
Propiconazole	70.2		P	49 - 128
Pyraflufen Ethyl	72.5		P	46 - 141
Pyridaben	127		P	29 - 198
Pyriproxyfen	79.9		P	33 - 221
Simazine	84.9		P	62 - 119
Stirophos	85.9		P	13 - 144
Sulfentrazone	95.6		P	12 - 152
Tebuconazole	52.0		P	10 - 135
Terbufos	89.2		P	67 - 136
Terbuthylazine	80.0		P	66 - 113
Tetradecachloro-m-terphenyl	134		P	30 - 235

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P443399

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Thiobencarb	93.0		P	51 - 125
Tri-o-cresyl Phosphate	113		P	50 - 150
Triadimefon	82.0		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	96.8		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	103		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	100		P	59 - 166

Reference Method: EPA 8270E
Batch ID: P443543

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	63.5		P	30 - 96.0
Alpha-BHC	82.0		P	70 - 109
Alpha-Chlordane	75.0		P	45 - 107
Beta-BHC	119		P	64 - 138
Beta-Cyfluthrin	72.7		P	17 - 141
Bifenthrin	63.8		P	10 - 113
Chlorothalonil	102		P	26 - 180
Cis-Nonachlor	89.3		P	37 - 102
Cypermethrin	84.8		P	20 - 133
Dacthal	103		P	69 - 114
DDD-p,p'	89.3		P	42 - 105
DDE-p,p'	87.7		P	42 - 106
DDT-p,p'	99.2		P	42 - 107
Delta-BHC	123		P	67 - 144
Deltamethrin	79.3		P	15 - 149
Dichlobenil	75.8		P	46 - 117
Dicofol	82.0		P	34 - 114
Dieldrin	89.6		P	50 - 108
Endosulfan I	81.2		P	55 - 104
Endosulfan II	85.3		P	51 - 111
Endosulfan Sulfate	97.9		P	56 - 121
Endrin	89.0		P	10 - 106
Endrin Aldehyde	89.6		P	34 - 114
Endrin Ketone	109		P	63 - 177
Esfenvalerate	74.7		P	29 - 143
Ethalfluralin	83.8		P	46 - 96.0
Fenpropathrin	86.5		P	28 - 115
Gamma-BHC	120		P	65 - 121
Gamma-Chlordane	86.6		P	39 - 103
Heptachlor	75.1		P	39 - 94.0
Heptachlor Epoxide	83.6		P	54 - 104
Hexachlorobenzene	61.7		P	36 - 100
Kepone	137		P	10 - 225
Lambda-Cyhalothrin	71.3		P	10 - 135
Methoprene	62.5		P	10 - 109
Methoxychlor	109		P	52 - 112
MGK-264	77.5		P	44 - 117
Mirex	62.0		P	20 - 90.0
Oxychlordane	86.2		P	44 - 102
PCB-1016	86.1		P	45 - 107
PCB-1260	82.2		P	40 - 118

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P443543

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Permethrin	69.0		P	18 - 135
Phenothrin	49.6		P	10 - 102
Piperonyl Butoxide	106		P	28 - 156
Prallethrin	64.1		P	28 - 113
Tau-Fluvalinate	58.4		P	10 - 123
Tetramethrin	89.1		P	18 - 158
Trans-Nonachlor	95.8		P	39 - 104
Triclosan Methyl	89.6		P	54 - 108
Trifluralin	85.5		P	46 - 97.0

Reference Method: EPA 8276
Batch ID: P443543

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	90.7		P	52 - 117
Toxaphene	89.9		P	44 - 125

Reference Method: EPA 8321B
Batch ID: P443301

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	108		P	40 - 150
2,4,5-T	107		P	40 - 150
Acetaminophen	92.5		P	30 - 150
Acetamiprid	87.8		P	40 - 150
Afidopyropen	67.5		P	30 - 150
Bentazon	100		P	30 - 150
Benzovindiflupyr	86.0		P	40 - 150
Carbamazepine	86.7		P	40 - 150
Clothianidin	98.7		P	40 - 150
Dinotefuran	102		P	40 - 150
Diuron	94.1		P	40 - 150
Fenuron	93.1		P	40 - 150
Fluridone	93.5		P	40 - 150
Hydrocodone	99.6		P	40 - 150
Ibuprofen	83.0		P	40 - 150
Imazapyr	93.1		P	40 - 150
Imidacloprid	91.1		P	40 - 150
Linuron	92.2		P	40 - 150
Mandestrobin	96.3		P	40 - 150
MCPP	108		P	40 - 150
Naproxen	77.4		P	40 - 150
Primidone	81.9		P	40 - 150
Pyraclostrobin	80.2		P	40 - 150
Silvex	92.2		P	40 - 150
Thiamethoxam	98.4		P	40 - 150
Tolfenpyrad	51.6		P	30 - 150
Triclopyr	116		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P443330

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	105		P	40 - 150
AMPA	118		P	40 - 160
Endothall	104		P	40 - 160
Glufosinate	122		P	40 - 160
Glyphosate	122		P	40 - 160
Sucralose	101		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P443471

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	79.5		P	40 - 150
Aldicarb	71.3		P	30 - 150
Aldicarb Sulfone	97.5		P	40 - 150
Aldicarb Sulfoxide	93.9		P	40 - 150
Carbaryl	74.5		P	40 - 150
Carbofuran	80.0		P	40 - 150
Methiocarb	80.9		P	40 - 150
Methomyl	92.2		P	40 - 150
Oxamyl	99.7		P	40 - 150
Propoxur	77.1		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P443657

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

Reference Method: SM 2540 C-2015
Batch ID: P443898

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

Reference Method: SM 2540 D-2015
Batch ID: P443730

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	94.4		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P443677

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.3		P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P443670

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2014
Batch ID: P443682

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.8		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443665

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477883	Chloride	106		P	90 - 110
2477966	Chloride	104		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443668

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477883	Sulfate	103		P	90 - 110
2477966	Sulfate	104		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443575

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477907	Ammonia-N	97.6	99.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P443427

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477957	Kjeldahl Nitrogen	95.0	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443468

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477911	NO2NO3-N	95.5	96.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443571

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477857	NO2NO3-N	95.5	96.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443444

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477887	Total-P	106	105	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P443399

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477221	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	72.6	56.7	P/P	50 - 150
2477221	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	83.4	99.1	P/P	29 - 155
2477221	Acetochlor	89.0	85.9	P/P	60 - 124
2477221	Alachlor	76.5	83.5	P/P	54 - 122
2477221	Ametryn	90.5	87.0	P/P	51 - 208
2477221	Atrazine Desethyl	95.2	113	P/P	13 - 124
2477221	Avobenzone	136	143	P/P	35 - 187
2477221	Azinphos Methyl	138	128	P/P	43 - 276

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P443399

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477221	Azoxystrobin	108	136	P/P	52 - 300
2477221	Bromacil	92.7	95.1	P/P	44 - 134
2477221	Butylate	40.4	45.6	P/P	23 - 82.0
2477221	Caffeine	77.8	136	P/P	10 - 277
2477221	Carbophenothion	171	80.4	F/P	47 - 135
2477221	Carfentrazone Ethyl	157	85.4	F/P	46 - 147
2477221	Chlorfenapyr	98.2	81.2	P/P	43 - 114
2477221	Chlorpyrifos Ethyl	70.6	94.1	P/P	47 - 124
2477221	Chlorpyrifos Methyl	92.2	103	P/P	60 - 135
2477221	Coumaphos	134	127	P/P	10 - 222
2477221	Cyanazine	139	151	P/P	10 - 257
2477221	Cyprodinil	84.5	84.4	P/P	42 - 148
2477221	Dechlorane 602	73.1	44.2	P/P	14 - 133
2477221	Dechlorane 603	91.7	89.6	P/P	18 - 191
2477221	Dechlorane Plus	84.6	85.3	P/P	23 - 154
2477221	Demeton	63.1	76.1	P/P	41 - 137
2477221	Diazinon	101	115	P/P	64 - 139
2477221	Difenoconazole	161	118	P/P	46 - 254
2477221	Dimethenamid	91.6	86.9	P/P	47 - 117
2477221	Dimethomorph	110	211	P/P	14 - 255
2477221	Disulfoton	101	103	P/P	52 - 130
2477221	Dithiopyr	89.1	88.9	P/P	40 - 121
2477221	EPTC	30.4	34.8	P/P	19 - 78.0
2477221	Ethion	82.8	45.0	P/P	12 - 124
2477221	Ethoprop	70.7	87.8	P/P	68 - 144
2477221	Etridiazole	43.9	36.0	P/P	26 - 96.0
2477221	Fenamiphos	98.2	88.2	P/P	41 - 129
2477221	Fenbuconazole	83.2	84.6	P/P	26 - 169
2477221	Fipronil	122	71.4	P/P	46 - 145
2477221	Fipronil Desulfinyl	68.0	84.8	P/P	47 - 136
2477221	Fipronil Sulfide	116	66.1	P/P	41 - 127
2477221	Fipronil Sulfone	163	90.3	F/P	35 - 133
2477221	Fluazifop-P-butyl	137	112	F/P	46 - 131
2477221	Fludioxonil	79.7	89.7	P/P	51 - 124
2477221	Flumioxazin	224	87.7	P/P	10 - 289
2477221	Flutolanil	73.9	79.5	P/P	34 - 130
2477221	Fluxapyroxad	121	46.3	P/P	10 - 197
2477221	Fonofos	76.6	89.8	P/P	42 - 131
2477221	Hexabromobenzene	62.5	103	P/P	47 - 178
2477221	Hexazinone	113	108	P/P	64 - 125
2477221	Imazalil	107	95.5	P/P	37 - 252
2477221	Iprodione	131	68.9	P/P	34 - 265
2477221	Loratadine	129	262	P/F	20 - 231
2477221	Malathion	89.3	98.2	P/P	34 - 164
2477221	Metalaxyl	119	82.9	P/P	49 - 125
2477221	Metolachlor	87.7	106	P/P	54 - 125
2477221	Metribuzin	96.4	101	P/P	51 - 139
2477221	Mevinphos	72.7	79.9	P/P	46 - 130
2477221	Molinate	41.4	52.5	P/P	39 - 93.0
2477221	Myclobutanil	79.1	79.3	P/P	50 - 130
2477221	Naled	83.9	82.4	P/P	10 - 150
2477221	Napropamide	111	66.9	F/P	10 - 109

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P443399

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477221	Norflurazon	96.2	65.1	P/P	36 - 134
2477221	Octinoxate	106	95.2	P/P	18 - 170
2477221	Oxadiazon	76.2	80.3	P/P	43 - 112
2477221	Oxybenzone	91.8	101	P/P	33 - 154
2477221	Oxyfluorfen	127	107	P/P	62 - 154
2477221	Parathion Ethyl	78.6	95.3	P/P	65 - 120
2477221	Parathion Methyl	95.5	79.8	P/P	77 - 185
2477221	PBB-153	81.7	110	P/P	23 - 193
2477221	PBDE-47	93.6	80.7	P/P	31 - 139
2477221	PBDE-99	76.8	74.1	P/P	24 - 138
2477221	Pendimethalin	83.6	74.3	P/P	50 - 146
2477221	Pentabromotoluene	75.6	88.3	P/P	54 - 152
2477221	Phenytoin	101	61.1	P/P	10 - 157
2477221	Phorate	65.3	87.4	P/P	54 - 161
2477221	Prodiamine	35.9	41.8	P/P	29 - 160
2477221	Prometon	96.7	108	P/P	38 - 145
2477221	Prometryn	92.0	111	P/P	32 - 151
2477221	Pronamide	114	101	P/P	61 - 140
2477221	Propanil	121	110	P/P	50 - 147
2477221	Propargite	115	49.6	P/P	10 - 190
2477221	Propiconazole	82.4	74.6	P/P	30 - 146
2477221	Pyraflufen Ethyl	92.2	72.3	P/P	30 - 147
2477221	Pyridaben	128	136	P/P	15 - 195
2477221	Pyriproxyfen	78.6	67.8	P/P	31 - 218
2477221	Stirophos	92.2	60.7	P/P	10 - 134
2477221	Sulfentrazone	194	90.3	F/P	53 - 186
2477221	Tebuconazole	70.8	35.2	P/P	10 - 133
2477221	Terbufos	87.0	96.3	P/P	65 - 151
2477221	Terbuthylazine	76.5	88.8	P/P	62 - 117
2477221	Tetradecachloro-m-terphenyl	104	164	P/P	10 - 260
2477221	Thiobencarb	98.8	93.4	P/P	48 - 122
2477221	Tri-o-cresyl Phosphate	105	109	P/P	32 - 151
2477221	Triadimefon	89.4	82.2	P/P	46 - 124
2477221	Tris(1-chloro-2-propyl) phosphate (TCPP)	85.7	93.3	P/P	51 - 154
2477221	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	94.1	98.1	P/P	59 - 147
2477221	Tris(2-chloroethyl) phosphate (TCEP)	97.8	104	P/P	65 - 156

Reference Method: EPA 8270E
Batch ID: P443543

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477927	Aldrin	79.4	75.3	P/P	24 - 81.0
2477927	Alpha-BHC	72.9	77.6	P/P	65 - 110
2477927	Alpha-Chlordane	91.9	78.7	P/P	43 - 119
2477927	Beta-BHC	129	103	P/P	54 - 165
2477927	Beta-Cyfluthrin	107	111	P/P	27 - 165
2477927	Bifenthrin	97.4	108	P/P	17 - 117
2477927	Chlorothalonil	135	127	P/P	10 - 255
2477927	Cis-Nonachlor	74.0	82.1	P/P	34 - 98.0
2477927	Cypermethrin	109	117	P/P	25 - 143
2477927	Dacthal	103	93.6	P/P	55 - 139
2477927	DDD-p,p'	83.1	88.2	P/P	30 - 109

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P443543

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477927	DDE-p,p'	87.8	74.6	P/P	35 - 106
2477927	DDT-p,p'	90.4	81.2	P/P	41 - 101
2477927	Delta-BHC	144	112	P/P	58 - 165
2477927	Deltamethrin	133	130	P/P	10 - 194
2477927	Dichlobenil	72.4	78.3	P/P	22 - 114
2477927	Dicofol	82.7	77.9	P/P	17 - 133
2477927	Dieldrin	93.6	80.8	P/P	45 - 129
2477927	Endosulfan I	101	82.4	P/P	49 - 104
2477927	Endosulfan II	103	81.9	P/P	37 - 117
2477927	Endosulfan Sulfate	102	95.4	P/P	38 - 128
2477927	Endrin	94.6	81.9	P/P	35 - 116
2477927	Endrin Aldehyde	60.9	70.3	P/P	19 - 108
2477927	Endrin Ketone	111	95.9	P/P	44 - 134
2477927	Esfenvalerate	112	125	P/P	27 - 176
2477927	Ethalfluralin	86.4	92.9	P/P	49 - 100
2477927	Fenpropathrin	98.0	95.2	P/P	34 - 117
2477927	Gamma-BHC	111	97.5	P/P	59 - 129
2477927	Gamma-Chlordane	92.5	82.9	P/P	33 - 107
2477927	Heptachlor	79.1	74.2	P/P	37 - 94.0
2477927	Heptachlor Epoxide	98.6	78.0	P/P	38 - 118
2477927	Hexachlorobenzene	73.0	67.5	P/P	35 - 97.0
2477927	Kepone	135	133	P/P	10 - 221
2477927	Lambda-Cyhalothrin	96.5	105	P/P	23 - 190
2477927	Methoprene	84.5	69.6	P/P	21 - 109
2477927	Methoxychlor	105	98.3	P/P	46 - 118
2477927	MGK-264	102	84.5	P/P	39 - 122
2477927	Mirex	76.6	65.0	P/P	25 - 90.0
2477927	Oxychlordane	98.0	80.5	P/P	42 - 100
2477927	Permethrin	102	111	P/P	33 - 181
2477927	Phenothrin	92.1	99.7	P/P	12 - 125
2477927	Piperonyl Butoxide	112	107	P/P	10 - 178
2477927	Prallethrin	94.1	78.2	P/P	24 - 122
2477927	Tau-Fluvalinate	106	109	P/P	13 - 151
2477927	Tetramethrin	108	114	P/P	16 - 172
2477927	Trans-Nonachlor	94.4	85.3	P/P	39 - 100
2477927	Triclosan Methyl	89.6	77.9	P/P	43 - 110
2477927	Trifluralin	83.2	79.8	P/P	45 - 94.0
2478407	PCB-1016	81.6	74.8	P/P	45 - 107
2478407	PCB-1260	77.9	64.6	P/P	40 - 112

Reference Method: EPA 8276
Batch ID: P443543

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2478407	Chlordane	77.1	69.0	P/P	43 - 123
2478407	Toxaphene	77.9	66.6	P/P	27 - 156

Reference Method: EPA 8321B
Batch ID: P443301

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477584	2,4-D	87.0	97.8	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P443301

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477584	2,4,5-T	90.4	91.9	P/P	40 - 150
2477584	Acetaminophen	98.2	98.3	P/P	30 - 150
2477584	Acetamiprid	61.8	58.5	P/P	40 - 150
2477584	Afidopyropen	56.0	38.9	P/P	30 - 150
2477584	Bentazon	44.1	50.4	P/P	30 - 150
2477584	Benzovindiflupyr	77.4	83.4	P/P	40 - 150
2477584	Carbamazepine	63.4	62.6	P/P	40 - 150
2477584	Clothianidin	89.9	93.3	P/P	40 - 150
2477584	Dinotefuran	82.5	86.5	P/P	40 - 150
2477584	Diuron	67.5	64.6	P/P	40 - 150
2477584	Fenuron	61.6	63.8	P/P	40 - 150
2477584	Fluridone	74.7	74.1	P/P	40 - 150
2477584	Hydrocodone	73.7	77.7	P/P	40 - 150
2477584	Ibuprofen	81.3	71.6	P/P	40 - 150
2477584	Imazapyr	102	109	P/P	40 - 150
2477584	Imidacloprid	108	113	P/P	40 - 150
2477584	Linuron	69.3	72.7	P/P	40 - 150
2477584	Mandestrobin	85.6	88.9	P/P	40 - 150
2477584	MCPP	90.4	97.0	P/P	40 - 150
2477584	Naproxen	84.0	75.8	P/P	40 - 150
2477584	Primidone	79.0	84.2	P/P	40 - 150
2477584	Pyraclostrobin	76.1	83.0	P/P	40 - 150
2477584	Silvex	76.2	86.2	P/P	40 - 150
2477584	Thiamethoxam	88.7	90.9	P/P	40 - 150
2477584	Tolfenpyrad	49.4	55.6	P/P	30 - 150
2477584	Triclopyr	80.5	93.0	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P443330

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477584	Acesulfame K	122	131	P/P	40 - 150
2477584	AMPA	101	99.3	P/P	40 - 160
2477584	Endothall	102	105	P/P	40 - 160
2477584	Glufosinate	110	114	P/P	40 - 160
2477584	Glyphosate	110	108	P/P	40 - 160
2477584	Sucralose	103	103	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P443471

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477923	3-Hydroxycarbofuran	67.2	70.4	P/P	40 - 150
2477923	Aldicarb	52.4	54.1	P/P	30 - 150
2477923	Aldicarb Sulfone	87.4	84.7	P/P	40 - 150
2477923	Aldicarb Sulfoxide	23.9	23.3	F/F	40 - 150
2477923	Carbaryl	62.2	61.6	P/P	40 - 150
2477923	Carbofuran	54.4	52.8	P/P	40 - 150
2477923	Methiocarb	71.9	75.8	P/P	40 - 150
2477923	Methomyl	67.0	70.2	P/P	40 - 150
2477923	Oxamyl	74.3	78.2	P/P	40 - 150
2477923	Propoxur	54.3	51.5	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P443677

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477966	Fluoride	101	102	P/P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P443670

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477911	Organic Carbon	98.8	99.7	P/P	85 - 115

Reference Method: SM 5310 B-2014
Batch ID: P443682

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477857	Organic Carbon	101	102	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P443404

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477910	Color (true)	1.67	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P443406

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477873	Color (true)	2.84	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P443407

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477908	Color (true)	3.89	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P443393

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477881	Turbidity	8.26	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443665

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477883	Chloride	0.848	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443668

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477883	Sulfate	0.544	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443575

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477907	Ammonia-N	1.76	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P443427

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477957	Kjeldahl Nitrogen	5.67	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443468

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477911	NO2NO3-N	0.522	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443571

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477857	NO2NO3-N	1.04	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443444

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477887	Total-P	0.861	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P443399

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477221	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	24.7	Spike	P	0 - 30
2477221	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	17.2	Spike	P	0 - 35
2477221	Acetochlor	3.48	Spike	P	0 - 28
2477221	Alachlor	8.66	Spike	P	0 - 30
2477221	Ametryn	3.45	Spike	P	0 - 32
2477221	Atrazine	12.6	Spike	P	0 - 33
2477221	Atrazine Desethyl	7.87	Spike	P	0 - 36
2477221	Avobenzone	4.95	Spike	P	0 - 35
2477221	Azinphos Methyl	7.85	Spike	P	0 - 62
2477221	Azoxystrobin	21.1	Spike	P	0 - 39
2477221	Bromacil	2.60	Spike	P	0 - 33
2477221	Butylate	12.0	Spike	P	0 - 51
2477221	Caffeine	38.6	Spike	P	0 - 100
2477221	Carbophenothion	71.9	Spike	F	0 - 34
2477221	Carfentrazone Ethyl	59.0	Spike	F	0 - 33
2477221	Chlorfenapyr	18.9	Spike	P	0 - 28
2477221	Chlorpyrifos Ethyl	28.6	Spike	P	0 - 31
2477221	Chlorpyrifos Methyl	11.4	Spike	P	0 - 27
2477221	Coumaphos	5.42	Spike	P	0 - 62
2477221	Cyanazine	8.21	Spike	P	0 - 48
2477221	Cyprodinil	0.126	Spike	P	0 - 29
2477221	Dechlorane 602	49.3	Spike	P	0 - 60
2477221	Dechlorane 603	2.30	Spike	P	0 - 40
2477221	Dechlorane Plus	0.807	Spike	P	0 - 38
2477221	Demeton	18.7	Spike	P	0 - 33
2477221	Diazinon	12.6	Spike	P	0 - 32
2477221	Difenoconazole	30.9	Spike	P	0 - 71
2477221	Dimethenamid	5.34	Spike	P	0 - 60
2477221	Dimethomorph	62.7	Spike	F	0 - 61
2477221	Disulfoton	1.70	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P443399

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477221	Dithiopyr	0.225	Spike	P	0 - 28
2477221	EPTC	13.6	Spike	P	0 - 56
2477221	Ethion	59.1	Spike	P	0 - 79
2477221	Ethoprop	18.9	Spike	P	0 - 31
2477221	Etridiazole	19.7	Spike	P	0 - 43
2477221	Fenamiphos	10.7	Spike	P	0 - 43
2477221	Fenbuconazole	1.73	Spike	P	0 - 79
2477221	Fipronil	44.4	Spike	P	0 - 46
2477221	Fipronil Desulfinyl	14.2	Spike	P	0 - 36
2477221	Fipronil Sulfide	36.9	Spike	F	0 - 34
2477221	Fipronil Sulfone	32.8	Spike	P	0 - 47
2477221	Fluazifop-P-butyl	19.5	Spike	P	0 - 38
2477221	Fludioxonil	11.8	Spike	P	0 - 29
2477221	Flumioxazin	87.3	Spike	F	0 - 63
2477221	Flutolanil	5.95	Spike	P	0 - 36
2477221	Fluxapyroxad	89.0	Spike	F	0 - 65
2477221	Fonofos	15.8	Spike	P	0 - 35
2477221	Hexabromobenzene	49.2	Spike	F	0 - 41
2477221	Hexazinone	4.24	Spike	P	0 - 31
2477221	Imazalil	11.4	Spike	P	0 - 52
2477221	Iprodione	62.4	Spike	F	0 - 49
2477221	Loratadine	68.3	Spike	F	0 - 59
2477221	Malathion	9.56	Spike	P	0 - 77
2477221	Metalaxyl	32.1	Spike	P	0 - 76
2477221	Metolachlor	19.3	Spike	P	0 - 29
2477221	Metribuzin	4.73	Spike	P	0 - 51
2477221	Mevinphos	9.53	Spike	P	0 - 31
2477221	Molinate	23.5	Spike	P	0 - 39
2477221	Myclobutanil	0.125	Spike	P	0 - 34
2477221	Naled	1.72	Spike	P	0 - 37
2477221	Napropamide	49.3	Spike	P	0 - 100
2477221	Norflurazon	38.6	Spike	P	0 - 54
2477221	Octinoxate	10.3	Spike	P	0 - 35
2477221	Oxadiazon	4.47	Spike	P	0 - 34
2477221	Oxybenzone	9.13	Spike	P	0 - 35
2477221	Oxyfluorfen	17.2	Spike	P	0 - 28
2477221	Parathion Ethyl	19.1	Spike	P	0 - 31
2477221	Parathion Methyl	17.9	Spike	P	0 - 29
2477221	PBB-153	29.8	Spike	P	0 - 49
2477221	PBDE-47	14.9	Spike	P	0 - 36
2477221	PBDE-99	3.66	Spike	P	0 - 46
2477221	Pendimethalin	11.8	Spike	P	0 - 31
2477221	Pentabromotoluene	15.5	Spike	P	0 - 16
2477221	Phenytoin	49.1	Spike	P	0 - 100
2477221	Phorate	29.0	Spike	P	0 - 36
2477221	Prodiamine	11.9	Spike	P	0 - 68
2477221	Prometon	11.2	Spike	P	0 - 35
2477221	Prometryn	18.8	Spike	P	0 - 33
2477221	Pronamide	11.8	Spike	P	0 - 24
2477221	Propanil	9.23	Spike	P	0 - 28
2477221	Propargite	79.2	Spike	F	0 - 53

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P443399

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477221	Propiconazole	8.00	Spike	P	0 - 44
2477221	Pyraflufen Ethyl	24.2	Spike	P	0 - 61
2477221	Pyridaben	5.98	Spike	P	0 - 43
2477221	Pyriproxyfen	14.8	Spike	P	0 - 82
2477221	Simazine	9.78	Spike	P	0 - 29
2477221	Stirophos	41.2	Spike	P	0 - 100
2477221	Sulfentrazone	44.8	Spike	P	0 - 64
2477221	Tebuconazole	67.2	Spike	P	0 - 76
2477221	Terbufos	10.2	Spike	P	0 - 29
2477221	Terbuthylazine	14.9	Spike	P	0 - 28
2477221	Tetradecachloro-m-terphenyl	44.9	Spike	F	0 - 42
2477221	Thiobencarb	5.67	Spike	P	0 - 26
2477221	Tri-o-cresyl Phosphate	4.01	Spike	P	0 - 24
2477221	Triadimefon	6.40	Spike	P	0 - 40
2477221	Tris(1-chloro-2-propyl) phosphate (TCPP)	6.89	Spike	P	0 - 30
2477221	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	3.73	Spike	P	0 - 22
2477221	Tris(2-chloroethyl) phosphate (TCEP)	6.40	Spike	P	0 - 15

Reference Method: EPA 8270E
Batch ID: P443543

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477927	Aldrin	5.32	Spike	P	0 - 41
2477927	Alpha-BHC	6.22	Spike	P	0 - 25
2477927	Alpha-Chlordane	15.5	Spike	P	0 - 32
2477927	Beta-BHC	22.6	Spike	P	0 - 33
2477927	Beta-Cyfluthrin	3.56	Spike	P	0 - 43
2477927	Bifenthrin	10.3	Spike	P	0 - 52
2477927	Chlorothalonil	5.80	Spike	P	0 - 82
2477927	Cis-Nonachlor	10.4	Spike	P	0 - 33
2477927	Cypermethrin	7.02	Spike	P	0 - 51
2477927	Dacthal	9.20	Spike	P	0 - 27
2477927	DDD-p,p'	5.94	Spike	P	0 - 39
2477927	DDE-p,p'	16.3	Spike	P	0 - 31
2477927	DDT-p,p'	8.45	Spike	P	0 - 29
2477927	Delta-BHC	24.8	Spike	P	0 - 35
2477927	Deltamethrin	2.56	Spike	P	0 - 100
2477927	Dichlobenil	7.89	Spike	P	0 - 40
2477927	Dicofol	6.01	Spike	P	0 - 37
2477927	Dieldrin	14.6	Spike	P	0 - 27
2477927	Endosulfan I	20.1	Spike	P	0 - 23
2477927	Endosulfan II	23.1	Spike	P	0 - 34
2477927	Endosulfan Sulfate	7.16	Spike	P	0 - 36
2477927	Endrin	14.4	Spike	P	0 - 45
2477927	Endrin Aldehyde	14.4	Spike	P	0 - 76
2477927	Endrin Ketone	15.0	Spike	P	0 - 43
2477927	Esfenvalerate	10.9	Spike	P	0 - 51
2477927	Ethalfluralin	7.26	Spike	P	0 - 22
2477927	Fenpropathrin	2.86	Spike	P	0 - 49
2477927	Gamma-BHC	13.0	Spike	P	0 - 28

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P443543

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477927	Gamma-Chlordane	10.9	Spike	P	0 - 40
2477927	Heptachlor	6.38	Spike	P	0 - 29
2477927	Heptachlor Epoxide	23.4	Spike	P	0 - 33
2477927	Hexachlorobenzene	7.82	Spike	P	0 - 36
2477927	Kepone	1.24	Spike	P	0 - 85
2477927	Lambda-Cyhalothrin	7.98	Spike	P	0 - 55
2477927	Methoprene	19.4	Spike	P	0 - 53
2477927	Methoxychlor	6.51	Spike	P	0 - 50
2477927	MGK-264	18.3	Spike	P	0 - 43
2477927	Mirex	16.4	Spike	P	0 - 40
2477927	Oxychlordane	19.6	Spike	P	0 - 31
2477927	Permethrin	8.09	Spike	P	0 - 50
2477927	Phenothrin	7.91	Spike	P	0 - 58
2477927	Piperonyl Butoxide	4.40	Spike	P	0 - 100
2477927	Prallethrin	18.4	Spike	P	0 - 39
2477927	Tau-Fluvalinate	2.47	Spike	P	0 - 54
2477927	Tetramethrin	5.58	Spike	P	0 - 51
2477927	Trans-Nonachlor	10.2	Spike	P	0 - 39
2477927	Triclosan Methyl	13.9	Spike	P	0 - 31
2477927	Trifluralin	4.12	Spike	P	0 - 22
2478407	PCB-1016	8.65	Spike	P	0 - 25
2478407	PCB-1260	18.8	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P443543

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2478407	Chlordane	11.1	Spike	P	0 - 28
2478407	Toxaphene	15.6	Spike	P	0 - 27

Reference Method: EPA 8321B
Batch ID: P443301

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477584	2,4-D	11.1	Spike	P	0 - 30
2477584	2,4,5-T	1.58	Spike	P	0 - 30
2477584	Acetaminophen	0.0602	Spike	P	0 - 30
2477584	Acetamiprid	5.42	Spike	P	0 - 30
2477584	Afidopyropen	35.9	Spike	F	0 - 30
2477584	Bentazon	6.24	Spike	P	0 - 30
2477584	Benzovindiflupyr	7.49	Spike	P	0 - 30
2477584	Carbamazepine	1.28	Spike	P	0 - 30
2477584	Clothianidin	3.69	Spike	P	0 - 30
2477584	Dinotefuran	4.67	Spike	P	0 - 30
2477584	Diuron	4.37	Spike	P	0 - 30
2477584	Fenuron	3.50	Spike	P	0 - 30
2477584	Fluridone	0.646	Spike	P	0 - 30
2477584	Hydrocodone	5.20	Spike	P	0 - 30
2477584	Ibuprofen	12.7	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P443301

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477584	Imazapyr	4.81	Spike	P	0 - 30
2477584	Imidacloprid	4.65	Spike	P	0 - 30
2477584	Linuron	4.78	Spike	P	0 - 30
2477584	Mandestrobin	3.83	Spike	P	0 - 30
2477584	MCPP	7.00	Spike	P	0 - 30
2477584	Naproxen	10.2	Spike	P	0 - 30
2477584	Primidone	6.38	Spike	P	0 - 30
2477584	Pyraclostrobin	8.65	Spike	P	0 - 30
2477584	Silvex	12.4	Spike	P	0 - 30
2477584	Thiamethoxam	2.52	Spike	P	0 - 30
2477584	Tolfenpyrad	11.8	Spike	P	0 - 30
2477584	Triclopyr	14.3	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P443330

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477584	Acesulfame K	7.18	Spike	P	0 - 30
2477584	AMPA	1.28	Spike	P	0 - 30
2477584	Endothall	3.03	Spike	P	0 - 30
2477584	Glufosinate	3.34	Spike	P	0 - 30
2477584	Glyphosate	1.60	Spike	P	0 - 30
2477584	Sucralose	0.182	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P443471

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477923	3-Hydroxycarbofuran	4.66	Spike	P	0 - 30
2477923	Aldicarb	3.05	Spike	P	0 - 30
2477923	Aldicarb Sulfone	3.09	Spike	P	0 - 30
2477923	Aldicarb Sulfoxide	2.63	Spike	P	0 - 30
2477923	Carbaryl	0.956	Spike	P	0 - 30
2477923	Carbofuran	3.00	Spike	P	0 - 30
2477923	Methiocarb	5.26	Spike	P	0 - 30
2477923	Methomyl	4.71	Spike	P	0 - 30
2477923	Oxamyl	5.18	Spike	P	0 - 30
2477923	Propoxur	5.30	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P443657

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477966	Total Alkalinity	3.00	Sample	P	0 - 3.9

Quality Assurance Report
Precision

Reference Method: SM 2540 C-2015
Batch ID: P443898

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477937	TDS	3.21	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P443677

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477966	Fluoride	0.494	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2014
Batch ID: P443670

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477911	Organic Carbon	0.608	Spike	P	0 - 15

Reference Method: SM 5310 B-2014
Batch ID: P443682

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477857	Organic Carbon	1.16	Spike	P	0 - 15

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2477923
Field Sample ID: G2SE0002

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	64.9	P	30 - 160

Lab Sample ID: 2477924
Field Sample ID: G2SE0002

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	97.3	P	30 - 160
EPA 8321B	Acetaminophen-d4	110	P	30 - 160
EPA 8321B	Carbamazepine-d10	75.2	P	30 - 160
EPA 8321B	Diuron-d6	72.8	P	30 - 160
EPA 8321B	Endothall-d6	102	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	104	P	30 - 160
EPA 8321B	Ibuprofen-d3	82.9	P	30 - 160
EPA 8321B	Primidone-d5	94.9	P	30 - 160
EPA 8321B	Sucralose-d6	80.2	P	30 - 160

Lab Sample ID: 2477925
Field Sample ID: G2SE0057

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	99.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	113	P	30 - 160
EPA 8321B	Carbamazepine-d10	74.8	P	30 - 160
EPA 8321B	Diuron-d6	74.5	P	30 - 160
EPA 8321B	Endothall-d6	109	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	111	P	30 - 160
EPA 8321B	Ibuprofen-d3	92.0	P	30 - 160
EPA 8321B	Primidone-d5	83.2	P	30 - 160
EPA 8321B	Sucralose-d6	98.7	P	30 - 160

Lab Sample ID: 2477926
Field Sample ID: G5SE0149

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	94.3	P	30 - 160
EPA 8321B	Acetaminophen-d4	107	P	30 - 160
EPA 8321B	Carbamazepine-d10	67.9	P	30 - 160
EPA 8321B	Diuron-d6	70.3	P	30 - 160
EPA 8321B	Endothall-d6	107	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	106	P	30 - 160
EPA 8321B	Ibuprofen-d3	80.1	P	30 - 160
EPA 8321B	Primidone-d5	89.8	P	30 - 160
EPA 8321B	Sucralose-d6	97.7	P	30 - 160

Lab Sample ID: 2477927
Field Sample ID: G2SE0002

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	68.3	P	37 - 129
EPA 8270E	Decachlorobiphenyl	85.3	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	50.5	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	62.0	P	29 - 95.0

Quality Assurance Report
Surrogates

Lab Sample ID: 2477927
Field Sample ID: G2SE0002

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8276	Decachlorobiphenyl	42.7	P	23 - 110
EPA 8276	PCNB	84.1	P	51 - 130

Lab Sample ID: 2477928
Field Sample ID: G2SE0002

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	77.3	P	20 - 200
EPA 8270E	Simazine-d10	79.4	P	58 - 137
EPA 8270E	Terbufos-d10	83.2	P	50 - 134
EPA 8270E	Terphenyl-d14	160	F	44 - 134

Quality Assurance Report
Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A125024
Included Lab Sample IDs: 2477906, 2477908, 2477910

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

Reference Method: DEP SOP: NU-094-1
Run ID: A125030
Included Lab Sample IDs: 2477906, 2477908, 2477910

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	97.3	98.1	P/P	90 - 110
Color (true)	97.8	99.4	P/P	90 - 110
Color (true)	98.1	97.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A125052
Included Lab Sample IDs: 2477907, 2477909, 2477911

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.0	97.5	P/P	90 - 110
NO2NO3-N	98.0	98.0	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A125055
Included Lab Sample IDs: 2477924, 2477925, 2477926

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	112	117	P/P	60 - 160
Endothall	99.3	101	P/P	60 - 160
Glufosinate	117	118	P/P	60 - 160
Glyphosate	122	125	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A125059
Included Lab Sample IDs: 2477907, 2477909, 2477911

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

Reference Method: EPA 8321B
Run ID: A125080
Included Lab Sample IDs: 2477924, 2477925, 2477926

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	126	133	P/P	60 - 160
Sucralose	104	100	P/P	60 - 160

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A125089
Included Lab Sample IDs: 2477907, 2477909, 2477911

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	99.8	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A125090
Included Lab Sample IDs: 2477907, 2477909, 2477911

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.4	99.1	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A125120
Included Lab Sample IDs: 2477928

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	96.9		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	96.0		P	80 - 120
Avobenzone	102		P	80 - 120
Dechlorane 602	101		P	80 - 120
Dechlorane 603	96.6		P	80 - 120
Dechlorane Plus	99.5		P	80 - 120
Hexabromobenzene	95.8		P	80 - 120
Octinoxate	97.9		P	80 - 120
Oxybenzone	96.0		P	80 - 120
PBB-153	92.7		P	80 - 120
PBDE-47	97.0		P	80 - 120
PBDE-99	95.1		P	80 - 120
Pentabromotoluene	97.1		P	80 - 120
Tetradecachloro-m-terphenyl	98.5		P	80 - 120
Tri-o-cresyl Phosphate	97.7		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	98.2		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	95.8		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	95.4		P	80 - 120

Reference Method: SM 2320 B-2011
Run ID: A125126
Included Lab Sample IDs: 2477906, 2477908, 2477910

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.3	98.3	P/P	90 - 110
Total Alkalinity	96.5	96.3	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A125126
Included Lab Sample IDs: 2477906, 2477908, 2477910

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	102	103	P/P	90 - 110
Fluoride	103	103	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A125129
Included Lab Sample IDs: 2477906, 2477908, 2477910

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	97.4	96.3	P/P	90 - 110
Sulfate	98.8	98.3	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: SM 5310 B-2014
Run ID: A125130
Included Lab Sample IDs: 2477911

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	119	98.8	P/P	70 - 130

Reference Method: SM 5310 B-2014
Run ID: A125132
Included Lab Sample IDs: 2477907, 2477909

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	116	100	P/P	70 - 130

Reference Method: EPA 8270E
Run ID: A125202
Included Lab Sample IDs: 2477927

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	109		P	80 - 120
PCB-1260	96.5		P	80 - 120

Reference Method: EPA 8276
Run ID: A125204
Included Lab Sample IDs: 2477927

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	100		P	80 - 120
Toxaphene	99.0		P	80 - 120

Reference Method: EPA 8270E
Run ID: A125205
Included Lab Sample IDs: 2477927

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	79.0*		F	80 - 120
Alpha-Chlordane	101		P	80 - 120
Beta-BHC	101		P	80 - 120
Beta-Cyfluthrin	95.1		P	80 - 120
Bifenthrin	102		P	80 - 120
Chlorothalonil	112		P	80 - 120
Cis-Nonachlor	105		P	80 - 120
Cypermethrin	98.2		P	80 - 120
Dacthal	102		P	80 - 120
DDD-p,p'	105		P	80 - 120
DDE-p,p'	106		P	80 - 120
DDT-p,p'	105		P	80 - 120
Delta-BHC	103		P	80 - 120
Deltamethrin	93.5		P	80 - 120
Dichlobenil	97.7		P	80 - 120
Dicofol	101		P	80 - 120
Dieldrin	106		P	80 - 120
Endosulfan I	101		P	80 - 120
Endosulfan II	99.6		P	80 - 120
Endosulfan Sulfate	101		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A125205
Included Lab Sample IDs: 2477927

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endrin	106		P	80 - 120
Endrin Aldehyde	99.1		P	80 - 120
Endrin Ketone	103		P	80 - 120
Esfenvalerate	92.9		P	80 - 120
Ethalfluralin	105		P	80 - 120
Fenpropathrin	106		P	80 - 120
Gamma-BHC	111		P	80 - 120
Gamma-Chlordane	99.5		P	80 - 120
Heptachlor	106		P	80 - 120
Heptachlor Epoxide	105		P	80 - 120
Hexachlorobenzene	95.5		P	80 - 120
Kepone	88.5		P	80 - 120
Lambda-Cyhalothrin	96.5		P	80 - 120
Methoprene	104		P	80 - 120
Methoxychlor	107		P	80 - 120
MGK-264	101		P	80 - 120
Mirex	95.9		P	80 - 120
Oxychlordane	103		P	80 - 120
Permethrin	95.3		P	80 - 120
Phenothrin	91.3		P	80 - 120
Piperonyl Butoxide	104		P	80 - 120
Prallethrin	98.3		P	80 - 120
Tau-Fluvalinate	92.4		P	80 - 120
Tetramethrin	97.2		P	80 - 120
Trans-Nonachlor	102		P	80 - 120
Triclosan Methyl	103		P	80 - 120
Trifluralin	101		P	80 - 120

Reference Method: EPA 8270E
Run ID: A125216
Included Lab Sample IDs: 2477928

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	88.0		P	80 - 120
Alachlor	83.8		P	80 - 120
Ametryn	96.9		P	80 - 120
Atrazine	92.3		P	80 - 120
Atrazine Desethyl	93.7		P	80 - 120
Azinphos Methyl	103		P	80 - 120
Azoxystrobin	103		P	80 - 120
Bromacil	105		P	80 - 120
Butylate	97.1		P	80 - 120
Caffeine	99.8		P	80 - 120
Carbophenothion	104		P	80 - 120
Carfentrazone Ethyl	94.0		P	80 - 120
Chlorfenapyr	93.3		P	80 - 120
Chlorpyrifos Ethyl	81.1		P	80 - 120
Chlorpyrifos Methyl	95.9		P	80 - 120
Coumaphos	106		P	80 - 120
Cyanazine	108		P	80 - 120
Cyprodinil	84.8		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A125216
Included Lab Sample IDs: 2477928

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Demeton	103		P	80 - 120
Diazinon	97.9		P	80 - 120
Difenoconazole	102		P	80 - 120
Dimethenamid	103		P	80 - 120
Dimethomorph	93.3		P	80 - 120
Disulfoton	98.8		P	80 - 120
Dithiopyr	92.9		P	80 - 120
EPTC	97.9		P	80 - 120
Ethion	82.6		P	80 - 120
Ethoprop	104		P	80 - 120
Etridiazole	94.9		P	80 - 120
Fenamiphos	90.2		P	80 - 120
Fenbuconazole	84.6		P	80 - 120
Fipronil	86.2		P	80 - 120
Fipronil Desulfinyl	102		P	80 - 120
Fipronil Sulfide	92.6		P	80 - 120
Fipronil Sulfone	88.3		P	80 - 120
Fluazifop-P-butyl	99.6		P	80 - 120
Fludioxonil	101		P	80 - 120
Flumioxazin	115		P	80 - 120
Flutolanil	105		P	80 - 120
Fluxapyroxad	90.7		P	80 - 120
Fonofos	87.2		P	80 - 120
Hexazinone	98.5		P	80 - 120
Imazalil	96.6		P	80 - 120
Iprodione	83.4		P	80 - 120
Loratadine	95.4		P	80 - 120
Malathion	86.9		P	80 - 120
Metalaxyl	83.5		P	80 - 120
Metolachlor	101		P	80 - 120
Metribuzin	94.9		P	80 - 120
Mevinphos	93.3		P	80 - 120
Molinate	88.3		P	80 - 120
Myclobutanil	86.6		P	80 - 120
Naled	95.2		P	80 - 120
Napropamide	102		P	80 - 120
Norflurazon	104		P	80 - 120
Oxadiazon	102		P	80 - 120
Oxyfluorfen	95.7		P	80 - 120
Parathion Ethyl	110		P	80 - 120
Parathion Methyl	93.0		P	80 - 120
Pendimethalin	87.5		P	80 - 120
Phenytoin	99.7		P	80 - 120
Phorate	104		P	80 - 120
Prodiamine	91.3		P	80 - 120
Prometon	97.4		P	80 - 120
Prometryn	86.7		P	80 - 120
Pronamide	102		P	80 - 120
Propanil	92.3		P	80 - 120
Propargite	107		P	80 - 120
Propiconazole	82.3		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A125216
Included Lab Sample IDs: 2477928

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraflufen Ethyl	102		P	80 - 120
Pyridaben	99.8		P	80 - 120
Pyriproxyfen	89.4		P	80 - 120
Simazine	85.0		P	80 - 120
Stirophos	88.2		P	80 - 120
Sulfentrazone	88.0		P	80 - 120
Tebuconazole	95.0		P	80 - 120
Terbufos	97.6		P	80 - 120
Terbuthylazine	84.7		P	80 - 120
Thiobencarb	101		P	80 - 120
Triadimefon	100		P	80 - 120

Reference Method: EPA 8321B
Run ID: A125230
Included Lab Sample IDs: 2477924, 2477925, 2477926

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	107	110	P/P	50 - 150
2,4,5-T	108	110	P/P	50 - 150
3-Hydroxycarbofuran	106	109	P/P	60 - 150
Acetaminophen	110	108	P/P	60 - 160
Acetamiprid	110	111	P/P	50 - 150
Afidopyropen	102	96.7	P/P	50 - 150
Aldicarb	120	106	P/P	60 - 150
Aldicarb Sulfone	105	106	P/P	50 - 150
Aldicarb Sulfoxide	110	105	P/P	50 - 150
Bentazon	104	103	P/P	50 - 160
Benzovindiflupyr	103	104	P/P	50 - 150
Carbamazepine	103	102	P/P	60 - 150
Carbaryl	102	106	P/P	60 - 150
Carbofuran	104	103	P/P	50 - 150
Clothianidin	107	111	P/P	60 - 150
Dinotefuran	114	112	P/P	50 - 150
Diuron	118	109	P/P	60 - 160
Fenuron	104	105	P/P	60 - 150
Fluridone	107	108	P/P	60 - 160
Hydrocodone	110	113	P/P	60 - 150
Ibuprofen	75.6	73.6	P/P	50 - 160
Imazapyr	102	99.8	P/P	50 - 150
Imazapyr	93.9	97.6	P/P	50 - 150
Imidacloprid	101	96.7	P/P	60 - 150
Linuron	104	97.4	P/P	60 - 150
Mandestrobin	108	109	P/P	50 - 150
MCPP	109	120	P/P	50 - 150
Methiocarb	98.4	97.7	P/P	50 - 150
Methomyl	106	105	P/P	50 - 150
Naproxen	104	111	P/P	50 - 160
Oxamyl	108	109	P/P	50 - 150
Primidone	97.1	95.6	P/P	60 - 150
Propoxur	113	113	P/P	50 - 150
Pyraclostrobin	102	101	P/P	60 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A125230
Included Lab Sample IDs: 2477924, 2477925, 2477926

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Silvex	105	110	P/P	50 - 150
Thiamethoxam	106	109	P/P	50 - 150
Tolfenpyrad	104	101	P/P	60 - 150
Triclopyr	105	110	P/P	50 - 150

* 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)	98.2				1.67	
	Color (true)	97.5				2.84	
	Color (true)	96.7				3.89	
EPA 180.1 Rev. 2.0	Turbidity	104				8.26	
EPA 300.0 Rev. 2.1	Chloride	103	106	104		0.848	
	Sulfate	105	103	104		0.544	
EPA 350.1 Rev. 2.0	Ammonia-N	97.6	97.6	99.6			1.76
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	95.3	95.0	103			5.67
EPA 353.2 Rev. 2.0	NO2NO3-N	104	95.5	96.0			0.522
	NO2NO3-N	99.5	95.5	96.5			1.04
EPA 365.1 Rev. 2.0	Total-P	103	106	105			0.861
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	65.0	72.6	56.7			24.7
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	102	83.4	99.1			17.2
	Acetochlor	85.1	89.0	85.9			3.48
	Alachlor	79.7	76.5	83.5			8.66
	Aldrin	63.5	79.4	75.3			5.32
	Alpha-BHC	82.0	72.9	77.6			6.22
	Alpha-Chlordane	75.0	91.9	78.7			15.5
	Ametryn	87.3	90.5	87.0			3.45
	Atrazine	84.2					12.6
	Atrazine Desethyl	89.8	95.2	113			7.87
	Avobenzone	148	136	143			4.95
	Azinphos Methyl	131	138	128			7.85
	Azoxystrobin	110	108	136			21.1
	Beta-BHC	119	129	103			22.6
	Beta-Cyfluthrin	72.7	107	111			3.56
	Bifenthrin	63.8	97.4	108			10.3
	Bromacil	91.7	92.7	95.1			2.60
	Butylate	58.6	40.4	45.6			12.0
	Caffeine	105	77.8	136			38.6
	Carbophenothion	108	171	80.4			71.9
	Carfentrazone Ethyl	109	157	85.4			59.0
	Chlorfenapyr	92.5	98.2	81.2			18.9
	Chlorothalonil	102	135	127			5.80
	Chlorpyrifos Ethyl	86.5	70.6	94.1			28.6
	Chlorpyrifos Methyl	101	92.2	103			11.4
	Cis-Nonachlor	89.3	74.0	82.1			10.4
	Coumaphos	134	134	127			5.42
	Cyanazine	153	139	151			8.21
	Cypermethrin	84.8	109	117			7.02
	Cyprodinil	80.7	84.5	84.4			0.126
	Dacthal	103	103	93.6			9.20
	DDD-p,p'	89.3	83.1	88.2			5.94
	DDE-p,p'	87.7	87.8	74.6			16.3
	DDT-p,p'	99.2	90.4	81.2			8.45
	Dechlorane 602	67.7	73.1	44.2			49.3
	Dechlorane 603	102	91.7	89.6			2.30
	Dechlorane Plus	102	84.6	85.3			0.807
	Delta-BHC	123	144	112			24.8
	Deltamethrin	79.3	133	130			2.56
	Demeton	78.1	63.1	76.1			18.7

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Diazinon	98.6	101	115			12.6
	Dichlobenil	75.8	72.4	78.3			7.89
	Dicofol	82.0	82.7	77.9			6.01
	Dieldrin	89.6	93.6	80.8			14.6
	Difenoconazole	187	161	118			30.9
	Dimethenamid	89.9	91.6	86.9			5.34
	Dimethomorph	111	110	211			62.7
	Disulfoton	95.4	101	103			1.70
	Dithiopyr	79.4	89.1	88.9			0.225
	Endosulfan I	81.2	101	82.4			20.1
	Endosulfan II	85.3	103	81.9			23.1
	Endosulfan Sulfate	97.9	102	95.4			7.16
	Endrin	89.0	94.6	81.9			14.4
	Endrin Aldehyde	89.6	60.9	70.3			14.4
	Endrin Ketone	109	111	95.9			15.0
	EPTC	47.6	30.4	34.8			13.6
	Esfenvalerate	74.7	112	125			10.9
	Ethalfluralin	83.8	86.4	92.9			7.26
	Ethion	67.1	82.8	45.0			59.1
	Ethoprop	92.3	70.7	87.8			18.9
	Etridiazole	52.6	43.9	36.0			19.7
	Fenamiphos	105	98.2	88.2			10.7
	Fenbuconazole	78.0	83.2	84.6			1.73
	Fenpropathrin	86.5	98.0	95.2			2.86
	Fipronil	86.3	122	71.4			44.4
	Fipronil Desulfinyl	95.3	68.0	84.8			14.2
	Fipronil Sulfide	96.5	116	66.1			36.9
	Fipronil Sulfone	103	163	90.3			32.8
	Fluazifop-P-butyl	118	137	112			19.5
	Fludioxonil	85.5	79.7	89.7			11.8
	Flumioxazin	223	224	87.7			87.3
	Flutolanil	94.6	73.9	79.5			5.95
	Fluxapyroxad	84.7	121	46.3			89.0
	Fonofos	82.0	76.6	89.8			15.8
	Gamma-BHC	120	111	97.5			13.0
	Gamma-Chlordane	86.6	92.5	82.9			10.9
	Heptachlor	75.1	79.1	74.2			6.38
	Heptachlor Epoxide	83.6	98.6	78.0			23.4
	Hexabromobenzene	99.0	62.5	103			49.2
	Hexachlorobenzene	61.7	73.0	67.5			7.82
	Hexazinone	90.1	113	108			4.24
	Imazalil	74.8	107	95.5			11.4
	Iprodione	102	131	68.9			62.4
	Kepone	137	135	133			1.24
	Lambda-Cyhalothrin	71.3	96.5	105			7.98
	Loratadine	132	129	262			68.3
	Malathion	98.7	89.3	98.2			9.56
	Metalaxyl	76.8	119	82.9			32.1
	Methoprene	62.5	84.5	69.6			19.4
	Methoxychlor	109	105	98.3			6.51
	Metolachlor	103	87.7	106			19.3
	Metribuzin	96.9	96.4	101			4.73
	Mevinphos	80.2	72.7	79.9			9.53
	MGK-264	77.5	102	84.5			18.3

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Mirex	62.0	76.6	65.0			16.4
	Molinate	56.5	41.4	52.5			23.5
	Myclobutanil	76.2	79.1	79.3			0.125
	Naled	68.9	83.9	82.4			1.72
	Napropamide	89.7	111	66.9			49.3
	Norflurazon	79.9	96.2	65.1			38.6
	Octinoxate	106	106	95.2			10.3
	Oxadiazon	82.7	76.2	80.3			4.47
	Oxybenzone	96.1	91.8	101			9.13
	Oxychlordane	86.2	98.0	80.5			19.6
	Oxyfluorfen	97.6	127	107			17.2
	Parathion Ethyl	85.5	78.6	95.3			19.1
	Parathion Methyl	65.9	95.5	79.8			17.9
	PBB-153	108	81.7	110			29.8
	PBDE-47	90.4	93.6	80.7			14.9
	PBDE-99	87.1	76.8	74.1			3.66
	PCB-1016	86.1	81.6	74.8			8.65
	PCB-1260	82.2	77.9	64.6			18.8
	Pendimethalin	65.1	83.6	74.3			11.8
	Pentabromotoluene	83.6	75.6	88.3			15.5
	Permethrin	69.0	102	111			8.09
	Phenothrin	49.6	92.1	99.7			7.91
	Phenytoin	61.8	101	61.1			49.1
	Phorate	77.4	65.3	87.4			29.0
	Piperonyl Butoxide	106	112	107			4.40
	Prallethrin	64.1	94.1	78.2			18.4
	Prodiamine	46.9	35.9	41.8			11.9
	Prometon	91.0	96.7	108			11.2
	Prometryn	113	92.0	111			18.8
	Pronamide	104	114	101			11.8
	Propanil	119	121	110			9.23
	Propargite	70.1	115	49.6			79.2
	Propiconazole	70.2	82.4	74.6			8.00
	Pyraflufen Ethyl	72.5	92.2	72.3			24.2
	Pyridaben	127	128	136			5.98
	Pyriproxyfen	79.9	78.6	67.8			14.8
	Simazine	84.9					9.78
	Stirophos	85.9	92.2	60.7			41.2
	Sulfentrazone	95.6	194	90.3			44.8
	Tau-Fluvalinate	58.4	106	109			2.47
	Tebuconazole	52.0	70.8	35.2			67.2
	Terbufos	89.2	87.0	96.3			10.2
	Terbuthylazine	80.0	76.5	88.8			14.9
	Tetradecachloro-m-terphenyl	134	104	164			44.9
	Tetramethrin	89.1	108	114			5.58
	Thiobencarb	93.0	98.8	93.4			5.67
	Trans-Nonachlor	95.8	94.4	85.3			10.2
	Tri-o-cresyl Phosphate	113	105	109			4.01
	Triadimefon	82.0	89.4	82.2			6.40
	Triclosan Methyl	89.6	89.6	77.9			13.9
	Trifluralin	85.5	83.2	79.8			4.12
	Tris(1-chloro-2-propyl) phosphate (TCPP)	96.8	85.7	93.3			6.89

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	103	94.1	98.1			3.73
	Tris(2-chloroethyl) phosphate (TCEP)	100	97.8	104			6.40
EPA 8276	Chlordane	90.7	77.1	69.0			11.1
	Toxaphene	89.9	77.9	66.6			15.6
EPA 8321B	2,4-D	108	87.0	97.8			11.1
	2,4,5-T	107	90.4	91.9			1.58
	3-Hydroxycarbofuran	79.5	67.2	70.4			4.66
	Acesulfame K	105	122	131			7.18
	Acetaminophen	92.5	98.3	98.2			0.0602
	Acetamiprid	87.8	58.5	61.8			5.42
	Afidopyropen	67.5	56.0	38.9			35.9
	Aldicarb	71.3	52.4	54.1			3.05
	Aldicarb Sulfone	97.5	87.4	84.7			3.09
	Aldicarb Sulfoxide	93.9	23.9	23.3			2.63
	AMPA	118	101	99.3			1.28
	Bentazon	100	44.1	50.4			6.24
	Benzovindiflupyr	86.0	77.4	83.4			7.49
	Carbamazepine	86.7	63.4	62.6			1.28
	Carbaryl	74.5	62.2	61.6			0.956
	Carbofuran	80.0	54.4	52.8			3.00
	Clothianidin	98.7	93.3	89.9			3.69
	Dinotefuran	102	86.5	82.5			4.67
	Diuron	94.1	67.5	64.6			4.37
	Endothall	104	102	105			3.03
	Fenuron	93.1	63.8	61.6			3.50
	Fluridone	93.5	74.7	74.1			0.646
	Glufosinate	122	110	114			3.34
	Glyphosate	122	110	108			1.60
	Hydrocodone	99.6	77.7	73.7			5.20
	Ibuprofen	83.0	81.3	71.6			12.7
	Imazapyr	93.1	102	109			4.81
	Imidacloprid	91.1	113	108			4.65
	Linuron	92.2	69.3	72.7			4.78
	Mandestrobin	96.3	85.6	88.9			3.83
	MCPP	108	90.4	97.0			7.00
	Methiocarb	80.9	71.9	75.8			5.26
	Methomyl	92.2	67.0	70.2			4.71
	Naproxen	77.4	84.0	75.8			10.2
	Oxamyl	99.7	74.3	78.2			5.18
	Primidone	81.9	84.2	79.0			6.38
	Propoxur	77.1	54.3	51.5			5.30
	Pyraclostrobin	80.2	76.1	83.0			8.65
	Silvex	92.2	76.2	86.2			12.4
	Sucralose	101	103	103			0.182
	Thiamethoxam	98.4	90.9	88.7			2.52
	Tolfenpyrad	51.6	49.4	55.6			11.8
	Triclopyr	116	80.5	93.0			14.3
SM 2320 B-2011	Total Alkalinity	100				3.00	
SM 2540 C-2015	TDS	95.2				3.21	
SM 2540 D-2015	TSS	94.4					
SM 4500-F- C-2011	Fluoride	99.3	101	102			0.494
SM 5310 B-2014	Organic Carbon	97.6	98.8	99.7			0.608

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
SM 5310 B-2014	Organic Carbon	99.8	101	102			1.16

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2477906, 2477908, 2477910
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2477906, 2477908, 2477910
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2477906, 2477908, 2477910
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2477906, 2477908, 2477910
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2477907, 2477909, 2477911
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2477907, 2477909, 2477911
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2477907, 2477909, 2477911
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2477907, 2477909, 2477911
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2477928
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2477927
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2477928
EPA 8270E	PCBs in water matrices by GC/MS/MS	2477927
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2477927
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2477923
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2477924, 2477925, 2477926
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2477906, 2477908, 2477910
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2477906, 2477908, 2477910
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2477906, 2477908, 2477910
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2477906, 2477908, 2477910
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2477907, 2477909, 2477911

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	03/27/2024			03/27/2024 14:34	Jessica K Wilks	2477910
	03/27/2024			03/27/2024 14:52	Jessica K Wilks	2477906
	03/27/2024			03/27/2024 14:57	Jessica K Wilks	2477908
EPA 180.1 Rev. 2.0	03/27/2024			03/27/2024 13:29	Chandler E Cox	2477906, 2477908
	03/27/2024			03/27/2024 13:30	Chandler E Cox	2477910
EPA 300.0 Rev. 2.1	03/27/2024			04/02/2024 02:34	Samantha L Bates	2477906
	03/27/2024			04/02/2024 02:49	Samantha L Bates	2477908
	03/27/2024			04/02/2024 03:04	Samantha L Bates	2477910
EPA 350.1 Rev. 2.0	03/27/2024			04/01/2024 12:18	Khloe J Berg	2477907
	03/27/2024			04/01/2024 12:22	Khloe J Berg	2477909
	03/27/2024			04/01/2024 12:23	Khloe J Berg	2477911
EPA 351.2 Rev. 2.0	03/27/2024	03/29/2024 12:42	Simonne.V. Calhoun	04/01/2024 12:25	Robyn Blevins	2477907
	03/27/2024	03/29/2024 12:42	Simonne.V. Calhoun	04/01/2024 12:26	Robyn Blevins	2477909
	03/27/2024	03/29/2024 12:42	Simonne.V. Calhoun	04/01/2024 12:28	Robyn Blevins	2477911
EPA 353.2 Rev. 2.0	03/27/2024			03/28/2024 13:40	Fadila Guebre	2477907
	03/27/2024			03/28/2024 13:47	Fadila Guebre	2477911
	03/27/2024			03/28/2024 14:02	Fadila Guebre	2477909
EPA 365.1 Rev. 2.0	03/27/2024	03/28/2024 13:40	Josephine W Gitau	03/29/2024 09:36	Elise M. Gillis	2477907
	03/27/2024	03/28/2024 13:40	Josephine W Gitau	03/29/2024 09:37	Elise M. Gillis	2477909
	03/27/2024	03/28/2024 13:40	Josephine W Gitau	03/29/2024 09:38	Elise M. Gillis	2477911
EPA 8270E	03/27/2024	03/28/2024 08:00	Rasheda Ghaffari	04/03/2024 01:17	Arthur Maknenko	2477928
	03/27/2024	03/28/2024 08:00	Rasheda Ghaffari	04/03/2024 01:49	Julie Wi	2477928
	03/27/2024	04/02/2024 08:10	Rasheda Ghaffari	04/03/2024 19:54	Kenedi Mills	2477927
	03/27/2024	04/02/2024 08:10	Rasheda Ghaffari	04/04/2024 01:34	Kenedi Mills	2477927
EPA 8276	03/27/2024	04/02/2024 08:10	Rasheda Ghaffari	04/05/2024 09:17	Arthur Maknenko	2477927
EPA 8321B	03/27/2024	03/28/2024 09:00	Hoor Shaik	04/09/2024 01:29	Juyoung Kim	2477924
	03/27/2024	03/28/2024 09:00	Hoor Shaik	04/09/2024 01:47	Juyoung Kim	2477925
	03/27/2024	03/28/2024 09:00	Hoor Shaik	04/09/2024 02:05	Juyoung Kim	2477926
	03/27/2024	03/28/2024 09:00	Hoor Shaik	04/09/2024 09:53	Juyoung Kim	2477925
	03/27/2024	03/28/2024 13:30	Samatha Luckman	03/28/2024 19:27	Samatha Luckman	2477924
	03/27/2024	03/28/2024 13:30	Samatha Luckman	03/28/2024 19:41	Samatha Luckman	2477925
	03/27/2024	03/28/2024 13:30	Samatha Luckman	03/28/2024 19:55	Samatha Luckman	2477926
	03/27/2024	03/28/2024 13:30	Samatha Luckman	03/29/2024 15:58	Samatha Luckman	2477924
	03/27/2024	03/28/2024 13:30	Samatha Luckman	03/29/2024 16:12	Samatha Luckman	2477925
	03/27/2024	03/28/2024 13:30	Samatha Luckman	03/29/2024 16:26	Samatha Luckman	2477926
	03/27/2024	04/02/2024 08:30	Hoor Shaik	04/09/2024 06:50	Juyoung Kim	2477923
SM 2320 B-2011	03/27/2024			04/02/2024 01:05	Dale L. Simmons	2477908
	03/27/2024			04/02/2024 01:18	Dale L. Simmons	2477910
	03/27/2024			04/02/2024 02:22	Dale L. Simmons	2477906
SM 2540 C-2015	03/27/2024			03/29/2024 15:27	Yijie Li	2477906, 2477908, 2477910

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2540 D-2015	03/27/2024			03/29/2024 15:27	Yijie Li	2477906, 2477908, 2477910
SM 4500-F- C-2011	03/27/2024			04/02/2024 01:05	Dale L. Simmons	2477908
	03/27/2024			04/02/2024 01:18	Dale L. Simmons	2477910
	03/27/2024			04/02/2024 02:22	Dale L. Simmons	2477906
SM 5310 B-2014	03/27/2024			04/01/2024 21:46	Jessica K Wilks	2477911
	03/27/2024			04/02/2024 13:34	Jessica K Wilks	2477907
	03/27/2024			04/02/2024 13:48	Jessica K Wilks	2477909