Chemical Analysis Report

SE-DIST-2024-04-26-01

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

Event Description: **SMP - All Highlands (South, Central, North, Boat)**
Request ID: **RQ-2024-03-11-37**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
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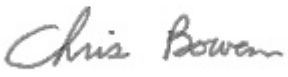
Certified by: Chris Bowen, Environmental Administrator

Date Certified: 29-MAY-2024 09:04



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: LAKE ANGELO NEAR CENTER **Collection Date/Time: 04/25/2024 10:30**

Field ID: G4SE0189 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2485165	DEP SOP: NU-094-1	Color (true)	13		PCU	P444862	
	EPA 180.1 Rev. 2.0	Turbidity	3.0		NTU	P444866	
	EPA 300.0 Rev. 2.1	Chloride	18	A	mg Cl/L	P445270	
		Sulfate	28	A	mg SO4/L	P445275	
	SM 2320 B-2011	Total Alkalinity	30		mg CaCO3/L	P445056	RPD
	SM 2540 C-2015	TDS	119		mg/L	P445463	
	SM 2540 D-2015	TSS	4	I	mg/L	P445492	
	SM 4500-F- C-2011	Fluoride	0.066	I	mg F/L	P445060	
2485166	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P445067	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.68		mg N/L	P444922	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.058		mg N/L	P445455	
	EPA 365.1 Rev. 2.0	Total-P	0.016		mg P/L	P444948	
	SM 5310 B-2014	Organic Carbon	5.6		mg C/L	P445149	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: LITTLE LAKE JACKSON NEAR CENTER **Collection Date/Time: 04/25/2024 11:45**

Field ID: G4SE0166 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2485169	DEP SOP: NU-094-1	Color (true)	20	A	PCU	P444862	
	EPA 180.1 Rev. 2.0	Turbidity	4.0		NTU	P444866	
	EPA 300.0 Rev. 2.1	Chloride	17		mg Cl/L	P445270	
		Sulfate	15		mg SO4/L	P445275	
	SM 2320 B-2011	Total Alkalinity	24		mg CaCO3/L	P445056	RPD
	SM 2540 C-2015	TDS	100		mg/L	P445464	
	SM 2540 D-2015	TSS	5	I	mg/L	P445493	
	SM 4500-F- C-2011	Fluoride	0.085	I	mg F/L	P445060	
2485170	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P445067	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.76		mg N/L	P444922	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P445529	
	EPA 365.1 Rev. 2.0	Total-P	0.024		mg P/L	P444948	
	SM 5310 B-2014	Organic Carbon	8.1		mg C/L	P445150	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: LAKE HENRY NEAR CENTER **Collection Date/Time: 04/25/2024 12:40**

Field ID: G4SE0162 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2485161	DEP SOP: NU-094-1	Color (true)	11		PCU	P444862	
	EPA 180.1 Rev. 2.0	Turbidity	3.0		NTU	P444866	
	EPA 300.0 Rev. 2.1	Chloride	23		mg Cl/L	P445270	
		Sulfate	30		mg SO4/L	P445275	
	SM 2320 B-2011	Total Alkalinity	17		mg CaCO3/L	P445056	RPD
	SM 2540 C-2015	TDS	113		mg/L	P445463	
	SM 2540 D-2015	TSS	6	I	mg/L	P445492	
	SM 4500-F- C-2011	Fluoride	0.066	I	mg F/L	P445060	
2485162	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P445067	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.81		mg N/L	P444922	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P445455	
	EPA 365.1 Rev. 2.0	Total-P	0.029		mg P/L	P444947	
	SM 5310 B-2014	Organic Carbon	8.1		mg C/L	P445149	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: LAKE GRASSY NEAR CENTER **Collection Date/Time: 04/25/2024 13:30**

Field ID: G4SE0190 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2485157	DEP SOP: NU-094-1	Color (true)	9.6		PCU	P444861	
	EPA 180.1 Rev. 2.0	Turbidity	2.4		NTU	P444866	
	EPA 300.0 Rev. 2.1	Chloride	23		mg Cl/L	P445270	
		Sulfate	24		mg SO4/L	P445275	
	SM 2320 B-2011	Total Alkalinity	36		mg CaCO3/L	P445056	RPD
	SM 2540 C-2015	TDS	135		mg/L	P445463	
	SM 2540 D-2015	TSS	4	I	mg/L	P445492	
	SM 4500-F- C-2011	Fluoride	0.080	I	mg F/L	P445060	
2485158	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P445066	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.63		mg N/L	P444922	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P445455	
	EPA 365.1 Rev. 2.0	Total-P	0.011		mg P/L	P444947	
	SM 5310 B-2014	Organic Carbon	8.6		mg C/L	P445149	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: BUCK LAKE NEAR CENTER **Collection Date/Time: 04/25/2024 14:00**

Field ID: G4SE0167 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2485163	DEP SOP: NU-094-1	Color (true)	4.5	I	PCU	P444862	
	EPA 180.1 Rev. 2.0	Turbidity	0.50	I	NTU	P444866	
	EPA 300.0 Rev. 2.1	Chloride	14		mg Cl/L	P445270	
		Sulfate	58		mg SO4/L	P445275	
	SM 2320 B-2011	Total Alkalinity	20	AJ	mg CaCO3/L	P445056	RPD
	SM 2540 C-2015	TDS	194		mg/L	P445463	
	SM 2540 D-2015	TSS	2	I	mg/L	P445492	
	SM 4500-F- C-2011	Fluoride	0.077	I	mg F/L	P445060	
2485164	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P445067	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.45		mg N/L	P444922	
	EPA 353.2 Rev. 2.0	NO2NO3-N	11		mg N/L	P445455	
	EPA 365.1 Rev. 2.0	Total-P	0.003	I	mg P/L	P444947	
	SM 5310 B-2014	Organic Carbon	3.7		mg C/L	P445149	
2485178	EPA 8321B	Aldicarb	0.020	U	ug/L	P444819	
		Aldicarb Sulfone	0.0020	U	ug/L	P444819	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P444819	MS
		Carbaryl	0.0020	U	ug/L	P444819	
		Carbofuran	0.0020	U	ug/L	P444819	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P444819	
		Methiocarb	0.0020	U	ug/L	P444819	
		Methomyl	0.0020	U	ug/L	P444819	
		Oxamyl	0.0020	U	ug/L	P444819	
		Propoxur	0.0020	U	ug/L	P444819	
2485179		2,4-D	0.0029	I	ug/L	P444754	
		Acesulfame K	0.10	U	ug/L	P444847	
		2,4,5-T	0.0040	U	ug/L	P444754	
		AMPA	0.10	U	ug/L	P444847	
		Acetaminophen	0.0080	U	ug/L	P444754	
		Acetamiprid	0.0020	U	ug/L	P444754	
		Endothall	0.25	U	ug/L	P444847	
		Glufosinate	0.10	U	ug/L	P444847	
		Glyphosate	0.10	U	ug/L	P444847	
		Afidopyropen	0.0020	U	ug/L	P444754	
		Bentazon	8.0E-04	U	ug/L	P444754	
		Sucralose	0.010	U	ug/L	P444847	
		Benzovindiflupyr	0.0020	U	ug/L	P444754	
		Carbamazepine	8.0E-04	U	ug/L	P444754	
		Clothianidin	0.029		ug/L	P444754	
		Dinotefuran	0.0020	U	ug/L	P444754	
		Diuron	0.029		ug/L	P444754	
		Fenuron	0.032	U	ug/L	P444754	
		Fluridone	4.0E-04	U	ug/L	P444754	
		Imazapyr	0.0040	U	ug/L	P444754	
		Hydrocodone	0.0020	U	ug/L	P444754	

Field ID: G4SE0167 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2485179	EPA 8321B	Ibuprofen	0.080	U	ug/L	P444754	
		Imidacloprid	0.24		ug/L	P444754	
		Linuron	0.0020	U	ug/L	P444754	
		Mandestrobin	0.0020	U	ug/L	P444754	
		MCPP	0.0020	U	ug/L	P444754	
		Naproxen	0.0080	U	ug/L	P444754	
		Primidone	0.0040	U	ug/L	P444754	
		Pyraclostrobin	0.0020	U	ug/L	P444754	
		Silvex	0.0040	U	ug/L	P444754	
		Thiamethoxam	0.019		ug/L	P444754	
		Tolfenpyrad	0.0020	U	ug/L	P444754	
		Triclopyr	0.0040	U	ug/L	P444754	
2485180	EPA 8270E	Aldrin	0.66	U	ng/L	P444846	
		Alpha-BHC	0.10	U	ng/L	P444846	
		Alpha-Chlordane	0.20	U	ng/L	P444846	
		PCB-1016	2.0	U	ng/L	P444846	
		Beta-BHC	0.10	U	ng/L	P444846	
		PCB-1221	2.0	U	ng/L	P444846	
		Beta-Cyfluthrin	1.3	U	ng/L	P444846	
		PCB-1232	2.0	U	ng/L	P444846	
		Bifenthrin	0.51	U	ng/L	P444846	
		PCB-1242	2.0	U	ng/L	P444846	
		PCB-1248	2.0	U	ng/L	P444846	
		Chlorothalonil	3.7	U	ng/L	P444846	
		PCB-1254	2.0	U	ng/L	P444846	
		Cis-Nonachlor	0.20	U	ng/L	P444846	
		PCB-1260	2.0	U	ng/L	P444846	
		Cypermethrin	1.5	UJ	ng/L	P444846	LCS, MS
		Dacthal	0.15	U	ng/L	P444846	
		DDD-p,p'	0.26	U	ng/L	P444846	
		DDE-p,p'	0.20	U	ng/L	P444846	
		DDT-p,p'	0.82	U	ng/L	P444846	
		Delta-BHC	0.41	U	ng/L	P444846	
		Deltamethrin	1.3	UJ	ng/L	P444846	LCS, MS
		Dichlobenil	0.26	U	ng/L	P444846	
		Dicofol	1.3	U	ng/L	P444846	
		Dieldrin	0.41	U	ng/L	P444846	
		Endosulfan I	0.41	U	ng/L	P444846	
		Endosulfan II	0.92	U	ng/L	P444846	
		Endosulfan Sulfate	0.31	U	ng/L	P444846	
		Endrin	0.92	U	ng/L	P444846	
		Endrin Aldehyde	0.77	U	ng/L	P444846	
		Endrin Ketone	0.41	U	ng/L	P444846	
		Esfenvalerate	0.77	UJ	ng/L	P444846	LCS, MS
		Ethalfluralin	0.15	U	ng/L	P444846	

Field ID: G4SE0167 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2485180	EPA 8270E	Fenpropathrin	0.26	U	ng/L	P444846	
		Gamma-BHC	0.13	U	ng/L	P444846	
		Gamma-Chlordane	0.20	U	ng/L	P444846	
		Heptachlor	0.20	U	ng/L	P444846	
		Heptachlor Epoxide	0.26	U	ng/L	P444846	
		Hexachlorobenzene**	1.0	U	ng/L	P444846	
		Kepone	14	U	ng/L	P444846	
		Lambda-Cyhalothrin	0.77	U	ng/L	P444846	
		Methoprene	0.77	U	ng/L	P444846	
		Methoxychlor	0.31	U	ng/L	P444846	
		MGK-264	0.20	U	ng/L	P444846	
		Mirex	0.36	U	ng/L	P444846	
		Oxychlordane	0.31	U	ng/L	P444846	
		Permethrin	1.6	U	ng/L	P444846	
		Phenothrin	0.92	U	ng/L	P444846	
		Piperonyl Butoxide	0.15	U	ng/L	P444846	
		Prallethrin	2.0	U	ng/L	P444846	
		Tau-Fluvalinate	0.26	UJ	ng/L	P444846	LCS, MS
		Tetramethrin	0.77	U	ng/L	P444846	
		Trans-Nonachlor	0.20	U	ng/L	P444846	
		Triclosan Methyl	0.15	U	ng/L	P444846	
		Trifluralin	0.20	U	ng/L	P444846	
	EPA 8276	Chlordane	2.0	U	ng/L	P444846	
		Toxaphene	15	U	ng/L	P444846	
2485181	EPA 8270E	Oxybenzone**	10	UJ	ng/L	P444998	LCS
		Acetochlor	0.20	U	ng/L	P444998	
		Octinoxate**	150	U	ng/L	P444998	
		Alachlor	0.41	U	ng/L	P444998	
		Avobenzone**	100	U	ng/L	P444998	
		Ametryn	1.1	U	ng/L	P444998	
		Atrazine	6.9		ng/L	P444998	
		PBDE-47**	4.1	U	ng/L	P444998	
		Atrazine Desethyl	2.5	I	ng/L	P444998	
		PBDE-99**	5.1	U	ng/L	P444998	
		Azinphos Methyl	3.1	U	ng/L	P444998	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P444998	RPD
		Azoxystrobin	1.6	I	ng/L	P444998	
		Bromacil	10		ng/L	P444998	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P444998	
		Butylate	0.46	U	ng/L	P444998	
		Dechlorane Plus**	31	U	ng/L	P444998	
		Caffeine**	61		ng/L	P444998	
		Dechlorane 602**	5.1	U	ng/L	P444998	
		Carbophenothion	0.51	U	ng/L	P444998	

Field ID: G4SE0167 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2485181	EPA 8270E	Dechlorane 603**	4.1	U	ng/L	P444998	
		Carfentrazone Ethyl	0.15	U	ng/L	P444998	
		Hexabromobenzene**	6.1	U	ng/L	P444998	
		Chlorfenapyr	0.31	U	ng/L	P444998	
		PBB-153**	6.1	U	ng/L	P444998	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P444998	
		Pentabromotoluene**	3.1	U	ng/L	P444998	
		Chlorpyrifos Methyl	0.10	U	ng/L	P444998	
		Tris(2-chloroethyl) phosphate (TCEP)**	56	U	ng/L	P444998	RPD
		Coumaphos	1.1	U	ng/L	P444998	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	26	U	ng/L	P444998	
		Cyanazine	5.1	U	ng/L	P444998	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	8.7		ng/L	P444998	
		Cyprodinil	0.20	U	ng/L	P444998	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P444998	
		Demeton	3.6	U	ng/L	P444998	MS
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	61	U	ng/L	P444998	MS
		Diazinon	0.13	U	ng/L	P444998	
		Difenoconazole	0.61	U	ng/L	P444998	
		Dimethenamid	0.10	U	ng/L	P444998	
		Dimethomorph	0.31	U	ng/L	P444998	
		Disulfoton	0.61	U	ng/L	P444998	
		Dithiopyr	1.0	U	ng/L	P444998	MS, RPD
		EPTC	0.51	U	ng/L	P444998	
		Ethion	0.31	U	ng/L	P444998	
		Ethoprop	0.13	U	ng/L	P444998	
		Etridiazole	0.10	U	ng/L	P444998	
		Fenamiphos	0.46	U	ng/L	P444998	
		Fenbuconazole	0.51	U	ng/L	P444998	
		Fipronil	0.20	U	ng/L	P444998	
		Fipronil Desulfinyl**	0.10	U	ng/L	P444998	
		Fipronil Sulfide	0.10	U	ng/L	P444998	
		Fipronil Sulfone	0.10	U	ng/L	P444998	
		Fluazifop-P-butyl	0.10	U	ng/L	P444998	
		Fludioxonil	0.10	U	ng/L	P444998	
		Flumioxazin	3.1	U	ng/L	P444998	
		Flutolanil	0.10	U	ng/L	P444998	
		Fluxapyroxad	0.26	U	ng/L	P444998	
		Fonofos	0.15	U	ng/L	P444998	
		Hexazinone	0.51	U	ng/L	P444998	
		Imazalil	0.67	U	ng/L	P444998	
		Iprodione	0.51	U	ng/L	P444998	
		Loratadine**	0.31	U	ng/L	P444998	
		Malathion	0.36	U	ng/L	P444998	

Field ID: G4SE0167 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2485181	EPA 8270E	Metalaxyl	1.6	I	ng/L	P444998	
		Metolachlor	1.3	I	ng/L	P444998	
		Metribuzin	0.41	U	ng/L	P444998	
		Mevinphos	1.0	U	ng/L	P444998	
		Molinate	0.26	U	ng/L	P444998	
		Myclobutanil	0.36	U	ng/L	P444998	
		Naled	2.6	U	ng/L	P444998	
		Napropamide	0.72	U	ng/L	P444998	
		Norflurazon	160		ng/L	P444998	
		Oxadiazon	0.36	U	ng/L	P444998	
		Oxyfluorfen	0.20	U	ng/L	P444998	
		Parathion Ethyl	0.15	U	ng/L	P444998	
		Parathion Methyl	0.20	U	ng/L	P444998	
		Pendimethalin	1.7	U	ng/L	P444998	
		Phenytoin**	5.4	U	ng/L	P444998	MS
		Phorate	0.26	U	ng/L	P444998	
		Prodiamine	0.20	U	ng/L	P444998	
		Prometon	3.1	U	ng/L	P444998	
		Prometryn	0.36	U	ng/L	P444998	
		Pronamide	0.10	U	ng/L	P444998	
		Propanil	0.10	U	ng/L	P444998	
		Propargite	0.82	U	ng/L	P444998	
		Propiconazole	0.61	U	ng/L	P444998	
		Pyraflufen Ethyl	0.31	U	ng/L	P444998	
		Pyridaben	1.4	U	ng/L	P444998	
		Pyriproxyfen	0.26	U	ng/L	P444998	
		Simazine	0.26	U	ng/L	P444998	
		Stirophos	0.41	U	ng/L	P444998	
		Sulfentrazone	1.4	U	ng/L	P444998	
		Tebuconazole	1.4	U	ng/L	P444998	
		Terbufos	0.20	U	ng/L	P444998	
		Terbuthylazine	0.20	U	ng/L	P444998	
		Thiobencarb	0.51	U	ng/L	P444998	
		Triadimefon	0.15	U	ng/L	P444998	

Ref. Method and Comment:
SM 2320 B-2011: Refer to the Lab Analysis Report for an explanation of QC Codes.
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: LAKE DENTON NEAR CENTER **Collection Date/Time: 04/25/2024 11:00**

Field ID: G4SE0158 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2485167	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P444862	
	EPA 180.1 Rev. 2.0	Turbidity	0.50	I	NTU	P444866	
	EPA 300.0 Rev. 2.1	Chloride	20		mg Cl/L	P445270	
		Sulfate	46		mg SO4/L	P445275	
	SM 2320 B-2011	Total Alkalinity	40		mg CaCO3/L	P445056	RPD
	SM 2540 C-2015	TDS	150		mg/L	P445463	
	SM 2540 D-2015	TSS	3	I	mg/L	P445492	
	SM 4500-F- C-2011	Fluoride	0.23		mg F/L	P445060	
2485168	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P445067	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.27		mg N/L	P444922	
	EPA 353.2 Rev. 2.0	NO2NO3-N	2.9		mg N/L	P445529	
	EPA 365.1 Rev. 2.0	Total-P	0.004	I	mg P/L	P444948	
	SM 5310 B-2014	Organic Carbon	1.8		mg C/L	P445150	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: LITTLE LAKE GRASSY NEAR CENTER **Collection Date/Time: 04/25/2024 13:15**

Field ID: G4SE0191 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2485159	DEP SOP: NU-094-1	Color (true)	5.5	I	PCU	P444862	
	EPA 180.1 Rev. 2.0	Turbidity	2.4		NTU	P444866	
	EPA 300.0 Rev. 2.1	Chloride	17		mg Cl/L	P445270	
		Sulfate	59		mg SO4/L	P445275	
	SM 2320 B-2011	Total Alkalinity	62		mg CaCO3/L	P445056	RPD
	SM 2540 C-2015	TDS	202		mg/L	P445463	
	SM 2540 D-2015	TSS	4	I	mg/L	P445492	
	SM 4500-F- C-2011	Fluoride	0.23		mg F/L	P445060	
2485160	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P445067	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.97		mg N/L	P444922	
	EPA 353.2 Rev. 2.0	NO2NO3-N	2.5		mg N/L	P445455	
	EPA 365.1 Rev. 2.0	Total-P	0.010		mg P/L	P444947	
	SM 5310 B-2014	Organic Carbon	7.0		mg C/L	P445149	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P444861

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P444862

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P444866

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445270

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445275

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P445066

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P445067

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P444922

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P445455

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: P445529

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P444947

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P444948

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

Reference Method: EPA 8270E
Batch ID: P444846

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P444846

Component	Result	Code	Units
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: P444998

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P444998

Component	Result	Code	Units
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
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P444998

Component	Result	Code	Units
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 8276
Batch ID: P444846

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

Reference Method: EPA 8321B
Batch ID: P444754

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	4.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0020	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P444754

Component	Result	Code	Units
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: P444819

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: EPA 8321B
Batch ID: P444847

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: SM 2320 B-2011
Batch ID: P445056

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

Reference Method: SM 2540 C-2015
Batch ID: P445463

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2015
Batch ID: P445464

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 2540 D-2015
Batch ID: P445492

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P445493

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P445060

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2014
Batch ID: P445149

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

Reference Method: SM 5310 B-2014
Batch ID: P445150

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: P444861

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.6		P	90 - 110

Reference Method: DEP SOP: NU-094-1
Batch ID: P444862

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P444866

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445270

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445275

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	108		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P445066

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	94.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P445067

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P444922

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P445455

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P445529

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P444947

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P444948

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

Reference Method: EPA 8270E
Batch ID: P444846

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	61.2		P	30 - 96.0
Alpha-BHC	93.8		P	70 - 109
Alpha-Chlordane	81.1		P	45 - 107
Beta-BHC	112		P	64 - 138
Beta-Cyfluthrin	139		P	17 - 141
Bifenthrin	99.2		P	10 - 113
Chlorothalonil	122		P	26 - 180
Cis-Nonachlor	82.3		P	37 - 102
Cypermethrin	145		F	20 - 133
Dacthal	91.8		P	69 - 114
DDD-p,p'	82.4		P	42 - 105
DDE-p,p'	86.6		P	42 - 106
DDT-p,p'	82.6		P	42 - 107
Delta-BHC	128		P	67 - 144
Deltamethrin	248		F	15 - 149
Dichlobenil	55.5		P	46 - 117
Dicofol	78.2		P	34 - 114
Dieldrin	81.8		P	50 - 108
Endosulfan I	92.4		P	55 - 104
Endosulfan II	92.5		P	51 - 111
Endosulfan Sulfate	102		P	56 - 121
Endrin	88.6		P	10 - 106
Endrin Aldehyde	63.8		P	34 - 114
Endrin Ketone	86.3		P	63 - 177
Esfenvalerate	196		F	29 - 143
Ethalfluralin	82.0		P	46 - 96.0
Fenpropathrin	97.8		P	28 - 115
Gamma-BHC	84.2		P	65 - 121
Gamma-Chlordane	87.0		P	39 - 103
Heptachlor	78.0		P	39 - 94.0
Heptachlor Epoxide	86.2		P	54 - 104
Hexachlorobenzene	84.4		P	36 - 100
Kepone	113		P	10 - 225
Lambda-Cyhalothrin	116		P	10 - 135

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P444846

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Methoprene	84.2		P	10 - 109
Methoxychlor	103		P	52 - 112
MGK-264	73.8		P	44 - 117
Mirex	85.8		P	20 - 90.0
Oxychlordane	81.0		P	44 - 102
PCB-1016	51.8		P	45 - 107
PCB-1260	77.1		P	40 - 118
Permethrin	128		P	18 - 135
Phenothrin	83.4		P	10 - 102
Piperonyl Butoxide	85.8		P	28 - 156
Prallethrin	78.3		P	28 - 113
Tau-Fluvalinate	183		F	10 - 123
Tetramethrin	87.4		P	18 - 158
Trans-Nonachlor	89.9		P	39 - 104
Triclosan Methyl	91.2		P	54 - 108
Trifluralin	80.9		P	46 - 97.0

Reference Method: EPA 8270E
Batch ID: P444998

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	102		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	86.9		P	37 - 154
Acetochlor	81.8		P	64 - 124
Alachlor	75.2		P	61 - 118
Ametryn	90.6		P	47 - 158
Atrazine	81.7		P	68 - 121
Atrazine Desethyl	63.9		P	30 - 119
Avobenzone	135		P	48 - 193
Azinphos Methyl	76.7		P	30 - 194
Azoxystrobin	85.8		P	58 - 154
Bromacil	81.1		P	47 - 126
Butylate	56.1		P	31 - 83.0
Caffeine	75.1		P	10 - 180
Carbophenothion	79.7		P	59 - 133
Carfentrazone Ethyl	87.1		P	59 - 147
Chlorfenapyr	77.8		P	52 - 118
Chlorpyrifos Ethyl	99.5		P	59 - 119
Chlorpyrifos Methyl	93.0		P	65 - 123
Coumaphos	87.5		P	11 - 223
Cyanazine	101		P	63 - 250
Cyprodinil	67.3		P	52 - 143
Dechlorane 602	98.9		P	23 - 142
Dechlorane 603	110		P	51 - 171
Dechlorane Plus	112		P	46 - 161
Demeton	82.7		P	42 - 119
Diazinon	93.6		P	67 - 132
Difenoconazole	108		P	12 - 204
Dimethenamid	83.3		P	53 - 113
Dimethomorph	167		P	13 - 238
Disulfoton	81.5		P	56 - 126
Dithiopyr	83.0		P	58 - 127

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P444998

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
EPTC	45.7		P	31 - 78.0
Ethion	86.2		P	24 - 127
Ethoprop	86.6		P	60 - 118
Etridiazole	54.8		P	32 - 91.0
Fenamiphos	72.4		P	54 - 129
Fenbuconazole	31.1		P	31 - 162
Fipronil	76.9		P	56 - 131
Fipronil Desulfinyl	87.6		P	58 - 132
Fipronil Sulfide	78.1		P	51 - 123
Fipronil Sulfone	74.3		P	50 - 125
Fluazifop-P-butyl	92.2		P	52 - 132
Fludioxonil	73.2		P	52 - 129
Flumioxazin	111		P	34 - 250
Flutolanil	57.9		P	45 - 128
Fluxapyroxad	68.0		P	31 - 150
Fonofos	74.7		P	60 - 116
Hexabromobenzene	101		P	52 - 165
Hexazinone	88.6		P	59 - 120
Imazalil	68.5		P	39 - 134
Iprodione	122		P	39 - 243
Loratadine	136		P	10 - 240
Malathion	102		P	53 - 145
Metalaxyl	70.2		P	59 - 120
Metolachlor	105		P	64 - 122
Metribuzin	90.9		P	33 - 128
Mevinphos	73.5		P	48 - 119
Molinate	56.3		P	42 - 89.0
Myclobutanil	85.3		P	54 - 129
Naled	66.1		P	10 - 138
Napropamide	76.2		P	40 - 122
Norflurazon	55.4		P	49 - 132
Octinoxate	136		P	29 - 176
Oxadiazon	74.7		P	50 - 115
Oxybenzone	148		F	45 - 145
Oxyfluorfen	105		P	62 - 149
Parathion Ethyl	88.9		P	68 - 119
Parathion Methyl	105		P	68 - 147
PBB-153	90.6		P	42 - 179
PBDE-47	141		P	44 - 141
PBDE-99	100		P	36 - 141
Pendimethalin	109		P	59 - 158
Pentabromotoluene	123		P	58 - 148
Phenytoin	64.8		P	10 - 151
Phorate	78.6		P	44 - 124
Prodiamine	36.4		P	10 - 136
Prometon	81.3		P	45 - 131
Prometryn	87.6		P	52 - 140
Pronamide	98.3		P	70 - 129
Propanil	105		P	54 - 144
Propargite	105		P	10 - 191
Propiconazole	64.5		P	49 - 128
Pyraflufen Ethyl	73.8		P	46 - 141

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P444998

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pyridaben	96.9		P	29 - 198
Pyriproxyfen	64.7		P	33 - 221
Simazine	80.9		P	62 - 119
Stirophos	106		P	13 - 144
Sulfentrazone	65.4		P	12 - 152
Tebuconazole	67.8		P	10 - 135
Terbufos	93.0		P	67 - 136
Terbuthylazine	97.3		P	66 - 113
Tetradecachloro-m-terphenyl	109		P	30 - 235
Thiobencarb	82.7		P	51 - 125
Tri-o-cresyl Phosphate	145		P	50 - 150
Triadimefon	86.1		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	116		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	117		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	129		P	59 - 166

Reference Method: EPA 8276
Batch ID: P444846

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	75.7		P	52 - 117
Toxaphene	74.3		P	44 - 125

Reference Method: EPA 8321B
Batch ID: P444754

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	129		P	40 - 150
2,4,5-T	121		P	40 - 150
Acetaminophen	79.5		P	30 - 150
Acetamiprid	75.1		P	40 - 150
Afidopyropen	55.5		P	30 - 150
Bentazon	105		P	30 - 150
Benzovindiflupyr	72.9		P	40 - 150
Carbamazepine	79.7		P	40 - 150
Clothianidin	87.3		P	40 - 150
Dinotefuran	93.2		P	40 - 150
Diuron	72.4		P	40 - 150
Fenuron	85.0		P	40 - 150
Fluridone	79.2		P	40 - 150
Hydrocodone	86.6		P	40 - 150
Ibuprofen	71.1		P	40 - 150
Imazapyr	84.0		P	40 - 150
Imidacloprid	84.4		P	40 - 150
Linuron	72.9		P	40 - 150
Mandestrobin	70.0		P	40 - 150
MCPP	121		P	40 - 150
Naproxen	76.4		P	40 - 150
Primidone	83.4		P	40 - 150
Pyraclostrobin	71.5		P	40 - 150
Silvex	101		P	40 - 150
Thiamethoxam	90.7		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P444754

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Tolfenpyrad	47.2		P	30 - 150
Triclopyr	114		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P444819

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	85.2		P	40 - 150
Aldicarb	72.7		P	30 - 150
Aldicarb Sulfone	94.8		P	40 - 150
Aldicarb Sulfoxide	86.4		P	40 - 150
Carbaryl	77.2		P	40 - 150
Carbofuran	76.7		P	40 - 150
Methiocarb	73.9		P	40 - 150
Methomyl	91.5		P	40 - 150
Oxamyl	93.0		P	40 - 150
Propoxur	75.8		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P444847

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	94.7		P	40 - 150
AMPA	89.8		P	40 - 160
Endothall	85.4		P	40 - 160
Glufosinate	82.7		P	40 - 160
Glyphosate	81.0		P	40 - 160
Sucralose	113		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P445056

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.2		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P445463

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

Reference Method: SM 2540 C-2015
Batch ID: P445464

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	98.8		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P445492

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2540 D-2015
Batch ID: P445493

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

Reference Method: SM 4500-F- C-2011
Batch ID: P445060

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

Reference Method: SM 5310 B-2014
Batch ID: P445149

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.2		P	85 - 115

Reference Method: SM 5310 B-2014
Batch ID: P445150

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

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445270

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485165	Chloride	103		P	90 - 110
2485193	Chloride	106		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445275

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485165	Sulfate	103		P	90 - 110
2485193	Sulfate	107		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P445066

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2484924	Ammonia-N	96.8	98.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P445067

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485160	Ammonia-N	93.4	96.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P445455

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485128	NO2NO3-N	100	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P445529

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485170	NO2NO3-N	110	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P444947

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485160	Total-P	106	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P444948

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485170	Total-P	104	104	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P444846

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2484861	Aldrin	68.1	67.3	P/P	24 - 81.0
2484861	Alpha-BHC	92.2	92.7	P/P	65 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P444846

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2484861	Alpha-Chlordane	73.9	86.1	P/P	43 - 119
2484861	Beta-BHC	106	105	P/P	54 - 165
2484861	Beta-Cyfluthrin	136	153	P/P	27 - 165
2484861	Bifenthrin	93.1	102	P/P	17 - 117
2484861	Chlorothalonil	172	231	P/P	10 - 255
2484861	Cis-Nonachlor	76.0	73.0	P/P	34 - 98.0
2484861	Cypermethrin	147	174	F/F	25 - 143
2484861	Dacthal	87.6	93.2	P/P	55 - 139
2484861	DDD-p,p'	79.4	74.9	P/P	30 - 109
2484861	DDE-p,p'	74.7	75.6	P/P	35 - 106
2484861	DDT-p,p'	81.4	87.4	P/P	41 - 101
2484861	Delta-BHC	123	149	P/P	58 - 165
2484861	Deltamethrin	184	227	P/F	10 - 194
2484861	Dichlobenil	63.5	55.1	P/P	22 - 114
2484861	Dicofol	71.9	65.7	P/P	17 - 133
2484861	Dieldrin	75.5	77.0	P/P	45 - 129
2484861	Endosulfan I	87.9	103	P/P	49 - 104
2484861	Endosulfan II	90.4	104	P/P	37 - 117
2484861	Endosulfan Sulfate	89.3	95.2	P/P	38 - 128
2484861	Endrin	82.3	80.0	P/P	35 - 116
2484861	Endrin Aldehyde	64.2	77.3	P/P	19 - 108
2484861	Endrin Ketone	81.8	87.7	P/P	44 - 134
2484861	Esfenvalerate	172	206	P/F	27 - 176
2484861	Ethalfluralin	80.7	71.8	P/P	49 - 100
2484861	Fenpropathrin	93.4	100	P/P	34 - 117
2484861	Gamma-BHC	85.4	90.4	P/P	59 - 129
2484861	Gamma-Chlordane	78.4	86.8	P/P	33 - 107
2484861	Heptachlor	72.7	71.7	P/P	37 - 94.0
2484861	Heptachlor Epoxide	80.7	85.8	P/P	38 - 118
2484861	Hexachlorobenzene	74.7	63.8	P/P	35 - 97.0
2484861	Kepone	95.4	95.8	P/P	10 - 221
2484861	Lambda-Cyhalothrin	136	149	P/P	23 - 190
2484861	Methoprene	87.9	97.9	P/P	21 - 109
2484861	Methoxychlor	89.3	106	P/P	46 - 118
2484861	MGK-264	87.3	95.7	P/P	39 - 122
2484861	Mirex	74.7	85.2	P/P	25 - 90.0
2484861	Oxychlordane	79.2	89.6	P/P	42 - 100
2484861	Permethrin	130	142	P/P	33 - 181
2484861	Phenothrin	113	117	P/P	12 - 125
2484861	Piperonyl Butoxide	79.8	78.8	P/P	10 - 178
2484861	Prallethrin	96.5	97.0	P/P	24 - 122
2484861	Tau-Fluvalinate	196	224	F/F	13 - 151
2484861	Tetramethrin	104	109	P/P	16 - 172
2484861	Trans-Nonachlor	77.5	90.2	P/P	39 - 100
2484861	Triclosan Methyl	83.2	88.5	P/P	43 - 110
2484861	Trifluralin	73.5	69.7	P/P	45 - 94.0
2485219	PCB-1016	62.1	65.1	P/P	45 - 107
2485219	PCB-1260	84.6	91.3	P/P	40 - 112

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P444998

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485659	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	37.5	45.6	F/F	50 - 150
2485659	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	66.2	84.0	P/P	29 - 155
2485659	Acetochlor	88.2	88.6	P/P	60 - 124
2485659	Alachlor	86.4	84.6	P/P	54 - 122
2485659	Ametryn	108	80.5	P/P	51 - 208
2485659	Atrazine	92.9	105	P/P	57 - 131
2485659	Atrazine Desethyl	65.1	76.9	P/P	13 - 124
2485659	Avobenzone	87.8	116	P/P	35 - 187
2485659	Azinphos Methyl	92.0	95.6	P/P	43 - 276
2485659	Azoxystrobin	110	110	P/P	52 - 300
2485659	Bromacil	103	94.8	P/P	44 - 134
2485659	Butylate	65.3	65.7	P/P	23 - 82.0
2485659	Caffeine	144	162	P/P	10 - 277
2485659	Carbophenothion	72.0	95.6	P/P	47 - 135
2485659	Carfentrazone Ethyl	92.7	81.4	P/P	46 - 147
2485659	Chlorfenapyr	70.6	84.3	P/P	43 - 114
2485659	Chlorpyrifos Ethyl	84.2	87.3	P/P	47 - 124
2485659	Chlorpyrifos Methyl	113	110	P/P	60 - 135
2485659	Coumaphos	178	189	P/P	10 - 222
2485659	Cyanazine	110	106	P/P	10 - 257
2485659	Cyprodinil	85.1	94.1	P/P	42 - 148
2485659	Dechlorane 602	30.1	36.6	P/P	14 - 133
2485659	Dechlorane 603	47.6	53.6	P/P	18 - 191
2485659	Dechlorane Plus	39.3	45.6	P/P	23 - 154
2485659	Demeton	328	317	F/F	41 - 137
2485659	Diazinon	114	117	P/P	64 - 139
2485659	Difenoconazole	192	203	P/P	46 - 254
2485659	Dimethenamid	96.4	97.8	P/P	47 - 117
2485659	Dimethomorph	215	230	P/P	14 - 255
2485659	Disulfoton	94.5	98.4	P/P	52 - 130
2485659	Dithiopyr	27.2	48.6	F/P	40 - 121
2485659	EPTC	52.4	60.2	P/P	19 - 78.0
2485659	Ethion	37.5	45.3	P/P	12 - 124
2485659	Ethoprop	99.5	94.5	P/P	68 - 144
2485659	Etridiazole	72.2	68.1	P/P	26 - 96.0
2485659	Fenamiphos	95.9	101	P/P	41 - 129
2485659	Fenbuconazole	56.6	48.1	P/P	26 - 169
2485659	Fipronil	78.5	86.3	P/P	46 - 145
2485659	Fipronil Desulfinyl	81.1	83.9	P/P	47 - 136
2485659	Fipronil Sulfide	79.2	92.1	P/P	41 - 127
2485659	Fipronil Sulfone	83.7	93.3	P/P	35 - 133
2485659	Fluazifop-P-butyl	87.4	96.8	P/P	46 - 131
2485659	Fludioxonil	80.9	90.0	P/P	51 - 124
2485659	Flumioxazin	145	147	P/P	10 - 289
2485659	Flutolanil	61.7	64.6	P/P	34 - 130
2485659	Fluxapyroxad	82.2	87.7	P/P	10 - 197
2485659	Fonofos	91.4	94.6	P/P	42 - 131
2485659	Hexabromobenzene	95.9	142	P/P	47 - 178
2485659	Hexazinone	82.1	83.8	P/P	64 - 125
2485659	Imazalil	93.8	82.5	P/P	37 - 252
2485659	Iprodione	121	119	P/P	34 - 265
2485659	Loratadine	187	198	P/P	20 - 231

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P444998

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485659	Malathion	121	130	P/P	34 - 164
2485659	Metalaxyl	80.0	78.8	P/P	49 - 125
2485659	Metolachlor	102	107	P/P	54 - 125
2485659	Metribuzin	97.5	98.1	P/P	51 - 139
2485659	Mevinphos	97.3	98.3	P/P	46 - 130
2485659	Molinate	68.2	71.1	P/P	39 - 93.0
2485659	Myclobutanil	82.3	82.9	P/P	50 - 130
2485659	Naled	50.6	55.7	P/P	10 - 150
2485659	Napropamide	51.1	66.1	P/P	10 - 109
2485659	Norflurazon	73.2	79.5	P/P	36 - 134
2485659	Octinoxate	61.6	81.5	P/P	18 - 170
2485659	Oxadiazon	73.1	95.5	P/P	43 - 112
2485659	Oxybenzone	90.1	105	P/P	33 - 154
2485659	Oxyfluorfen	96.8	111	P/P	62 - 154
2485659	Parathion Ethyl	98.8	97.2	P/P	65 - 120
2485659	Parathion Methyl	128	116	P/P	77 - 185
2485659	PBB-153	72.0	92.3	P/P	23 - 193
2485659	PBDE-47	49.7	66.5	P/P	31 - 139
2485659	PBDE-99	47.1	61.8	P/P	24 - 138
2485659	Pendimethalin	102	112	P/P	50 - 146
2485659	Pentabromotoluene	64.6	75.3	P/P	54 - 152
2485659	Phenytoin	9.44	10.7	F/P	10 - 157
2485659	Phorate	96.6	101	P/P	54 - 161
2485659	Prodiamine	56.3	59.6	P/P	29 - 160
2485659	Prometon	83.7	85.3	P/P	38 - 145
2485659	Prometryn	77.6	89.8	P/P	32 - 151
2485659	Pronamide	113	118	P/P	61 - 140
2485659	Propanil	105	103	P/P	50 - 147
2485659	Propargite	62.0	64.9	P/P	10 - 190
2485659	Propiconazole	58.9	70.7	P/P	30 - 146
2485659	Pyraflufen Ethyl	73.5	90.2	P/P	30 - 147
2485659	Pyridaben	142	176	P/P	15 - 195
2485659	Pyriproxyfen	67.5	80.5	P/P	31 - 218
2485659	Simazine	81.7	86.8	P/P	45 - 139
2485659	Stirophos	44.0	47.2	P/P	10 - 134
2485659	Sulfentrazone	55.1	58.1	P/P	53 - 186
2485659	Tebuconazole	38.6	45.3	P/P	10 - 133
2485659	Terbufos	106	107	P/P	65 - 151
2485659	Terbuthylazine	110	106	P/P	62 - 117
2485659	Tetradecachloro-m-terphenyl	66.0	86.2	P/P	10 - 260
2485659	Thiobencarb	90.7	97.3	P/P	48 - 122
2485659	Tri-o-cresyl Phosphate	68.9	90.1	P/P	32 - 151
2485659	Triadimefon	100	92.7	P/P	46 - 124
2485659	Tris(1-chloro-2-propyl) phosphate (TCPP)	76.0	93.4	P/P	51 - 154
2485659	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	75.4	95.7	P/P	59 - 147
2485659	Tris(2-chloroethyl) phosphate (TCEP)	94.4	111	P/P	65 - 156

Reference Method: EPA 8276
Batch ID: P444846

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485219	Chlordane	79.6	87.9	P/P	43 - 123

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8276
Batch ID: P444846

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485219	Toxaphene	89.7	94.3	P/P	27 - 156

Reference Method: EPA 8321B
Batch ID: P444754

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2484362	2,4-D	148	147	P/P	40 - 150
2484362	2,4,5-T	140	127	P/P	40 - 150
2484362	Acetaminophen	96.5	102	P/P	30 - 150
2484362	Acetamiprid	74.8	80.1	P/P	40 - 150
2484362	Afidopyropen	56.6	64.3	P/P	30 - 150
2484362	Bentazon	86.6	96.7	P/P	30 - 150
2484362	Benzovindiflupyr	79.9	81.7	P/P	40 - 150
2484362	Carbamazepine	78.0	80.8	P/P	40 - 150
2484362	Clothianidin	100	107	P/P	40 - 150
2484362	Dinotefuran	114	119	P/P	40 - 150
2484362	Diuron	66.3	69.8	P/P	40 - 150
2484362	Fenuron	92.5	98.8	P/P	40 - 150
2484362	Fluridone	84.9	88.6	P/P	40 - 150
2484362	Hydrocodone	101	107	P/P	40 - 150
2484362	Ibuprofen	73.3	75.8	P/P	40 - 150
2484362	Imazapyr	99.8	112	P/P	40 - 150
2484362	Imidacloprid	105	117	P/P	40 - 150
2484362	Linuron	70.0	73.3	P/P	40 - 150
2484362	Mandestrobin	72.0	76.4	P/P	40 - 150
2484362	MCPP	133	132	P/P	40 - 150
2484362	Naproxen	59.7	79.7	P/P	40 - 150
2484362	Primidone	92.7	99.9	P/P	40 - 150
2484362	Pyraclostrobin	75.6	79.6	P/P	40 - 150
2484362	Silvex	98.5	98.2	P/P	40 - 150
2484362	Thiamethoxam	108	118	P/P	40 - 150
2484362	Tolfenpyrad	52.8	59.3	P/P	30 - 150
2484362	Triclopyr	124	124	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P444819

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2484859	3-Hydroxycarbofuran	78.3	81.5	P/P	40 - 150
2484859	Aldicarb	38.5	44.4	P/P	30 - 150
2484859	Aldicarb Sulfone	82.3	80.6	P/P	40 - 150
2484859	Aldicarb Sulfoxide	33.7	30.2	F/F	40 - 150
2484859	Carbaryl	53.0	53.2	P/P	40 - 150
2484859	Carbofuran	47.7	46.3	P/P	40 - 150
2484859	Methiocarb	68.4	63.8	P/P	40 - 150
2484859	Methomyl	69.1	67.1	P/P	40 - 150
2484859	Oxamyl	77.6	78.3	P/P	40 - 150
2484859	Propoxur	42.6	43.7	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P444847

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2484803	Acesulfame K	101	104	P/P	40 - 150
2484803	AMPA	80.8	81.3	P/P	40 - 160
2484803	Endothall	99.7	101	P/P	40 - 160
2484803	Glufosinate	75.3	72.3	P/P	40 - 160
2484803	Glyphosate	72.2	75.2	P/P	40 - 160
2484803	Sucralose	104	105	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P445060

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485163	Fluoride	103	103	P/P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P445149

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485128	Organic Carbon	99.2	102	P/P	85 - 115

Reference Method: SM 5310 B-2014
Batch ID: P445150

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485168	Organic Carbon	98.0	99.9	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P444861

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485068	Color (true)	0.832	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P444862

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485169	Color (true)	3.59	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P444866

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485125	Turbidity	5.39	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445270

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485165	Chloride	0.0398	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445275

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485165	Sulfate	0.762	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P445066

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484924	Ammonia-N	1.50	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P445067

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485160	Ammonia-N	2.40	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P444922

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485144	Kjeldahl Nitrogen	4.53	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P445455

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485128	NO2NO3-N	1.42	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P445529

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485170	NO2NO3-N	2.30	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P444947

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485160	Total-P	1.19	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P444948

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485170	Total-P	0.572	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P444846

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484861	Aldrin	1.20	Spike	P	0 - 41
2484861	Alpha-BHC	0.566	Spike	P	0 - 25
2484861	Alpha-Chlordane	15.3	Spike	P	0 - 32
2484861	Beta-BHC	1.12	Spike	P	0 - 33
2484861	Beta-Cyfluthrin	12.1	Spike	P	0 - 43
2484861	Bifenthrin	9.66	Spike	P	0 - 52
2484861	Chlorothalonil	29.2	Spike	P	0 - 82
2484861	Cis-Nonachlor	3.93	Spike	P	0 - 33
2484861	Cypermethrin	16.5	Spike	P	0 - 51
2484861	Dacthal	6.20	Spike	P	0 - 27
2484861	DDD-p,p'	5.85	Spike	P	0 - 39
2484861	DDE-p,p'	1.14	Spike	P	0 - 31
2484861	DDT-p,p'	7.08	Spike	P	0 - 29
2484861	Delta-BHC	19.4	Spike	P	0 - 35
2484861	Deltamethrin	21.1	Spike	P	0 - 100
2484861	Dichlobenil	14.3	Spike	P	0 - 40
2484861	Dicofol	8.91	Spike	P	0 - 37
2484861	Dieldrin	2.01	Spike	P	0 - 27
2484861	Endosulfan I	15.4	Spike	P	0 - 23
2484861	Endosulfan II	13.9	Spike	P	0 - 34
2484861	Endosulfan Sulfate	6.37	Spike	P	0 - 36
2484861	Endrin	2.88	Spike	P	0 - 45
2484861	Endrin Aldehyde	18.5	Spike	P	0 - 76

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P444846

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484861	Endrin Ketone	7.00	Spike	P	0 - 43
2484861	Esfenvalerate	18.3	Spike	P	0 - 51
2484861	Ethalfluralin	11.7	Spike	P	0 - 22
2484861	Fenpropathrin	7.22	Spike	P	0 - 49
2484861	Gamma-BHC	5.66	Spike	P	0 - 28
2484861	Gamma-Chlordane	10.2	Spike	P	0 - 40
2484861	Heptachlor	1.39	Spike	P	0 - 29
2484861	Heptachlor Epoxide	6.13	Spike	P	0 - 33
2484861	Hexachlorobenzene	15.8	Spike	P	0 - 36
2484861	Kepone	0.421	Spike	P	0 - 85
2484861	Lambda-Cyhalothrin	9.17	Spike	P	0 - 55
2484861	Methoprene	10.7	Spike	P	0 - 53
2484861	Methoxychlor	17.4	Spike	P	0 - 50
2484861	MGK-264	9.13	Spike	P	0 - 43
2484861	Mirex	13.1	Spike	P	0 - 40
2484861	Oxychlordane	12.4	Spike	P	0 - 31
2484861	Permethrin	8.50	Spike	P	0 - 50
2484861	Phenothrin	3.22	Spike	P	0 - 58
2484861	Piperonyl Butoxide	1.30	Spike	P	0 - 100
2484861	Prallethrin	0.587	Spike	P	0 - 39
2484861	Tau-Fluvalinate	13.4	Spike	P	0 - 54
2484861	Tetramethrin	4.91	Spike	P	0 - 51
2484861	Trans-Nonachlor	15.2	Spike	P	0 - 39
2484861	Triclosan Methyl	6.12	Spike	P	0 - 31
2484861	Trifluralin	5.25	Spike	P	0 - 22
2485219	PCB-1016	4.65	Spike	P	0 - 25
2485219	PCB-1260	7.66	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P444998

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485659	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	19.3	Spike	P	0 - 30
2485659	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	23.7	Spike	P	0 - 35
2485659	Acetochlor	0.511	Spike	P	0 - 28
2485659	Alachlor	2.16	Spike	P	0 - 30
2485659	Ametryn	29.4	Spike	P	0 - 32
2485659	Atrazine	6.66	Spike	P	0 - 33
2485659	Atrazine Desethyl	16.6	Spike	P	0 - 36
2485659	Avobenzone	28.0	Spike	P	0 - 35
2485659	Azinphos Methyl	3.86	Spike	P	0 - 62
2485659	Azoxystrobin	0.0244	Spike	P	0 - 39
2485659	Bromacil	8.53	Spike	P	0 - 33
2485659	Butylate	0.589	Spike	P	0 - 51
2485659	Caffeine	8.08	Spike	P	0 - 100
2485659	Carbophenothion	28.2	Spike	P	0 - 34
2485659	Carfentrazone Ethyl	13.0	Spike	P	0 - 33
2485659	Chlorfenapyr	17.7	Spike	P	0 - 28
2485659	Chlorpyrifos Ethyl	3.56	Spike	P	0 - 31
2485659	Chlorpyrifos Methyl	3.27	Spike	P	0 - 27

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P444998

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485659	Coumaphos	5.78	Spike	P	0 - 62
2485659	Cyanazine	3.48	Spike	P	0 - 48
2485659	Cyprodinil	10.0	Spike	P	0 - 29
2485659	Dechlorane 602	19.5	Spike	P	0 - 60
2485659	Dechlorane 603	11.9	Spike	P	0 - 40
2485659	Dechlorane Plus	14.8	Spike	P	0 - 38
2485659	Demeton	3.40	Spike	P	0 - 33
2485659	Diazinon	2.40	Spike	P	0 - 32
2485659	Difenoconazole	5.91	Spike	P	0 - 71
2485659	Dimethenamid	1.51	Spike	P	0 - 60
2485659	Dimethomorph	6.76	Spike	P	0 - 61
2485659	Disulfoton	3.96	Spike	P	0 - 30
2485659	Dithiopyr	56.5	Spike	F	0 - 28
2485659	EPTC	13.8	Spike	P	0 - 56
2485659	Ethion	14.7	Spike	P	0 - 79
2485659	Ethoprop	5.11	Spike	P	0 - 31
2485659	Etridiazole	5.72	Spike	P	0 - 43
2485659	Fenamiphos	5.36	Spike	P	0 - 43
2485659	Fenbuconazole	16.1	Spike	P	0 - 79
2485659	Fipronil	9.52	Spike	P	0 - 46
2485659	Fipronil Desulfinyl	3.36	Spike	P	0 - 36
2485659	Fipronil Sulfide	15.1	Spike	P	0 - 34
2485659	Fipronil Sulfone	10.8	Spike	P	0 - 47
2485659	Fluazifop-P-butyl	10.2	Spike	P	0 - 38
2485659	Fludioxonil	10.8	Spike	P	0 - 29
2485659	Flumioxazin	0.938	Spike	P	0 - 63
2485659	Flutolanil	3.05	Spike	P	0 - 36
2485659	Fluxapyroxad	3.26	Spike	P	0 - 65
2485659	Fonofos	3.42	Spike	P	0 - 35
2485659	Hexabromobenzene	38.9	Spike	P	0 - 41
2485659	Hexazinone	2.11	Spike	P	0 - 31
2485659	Imazalil	12.8	Spike	P	0 - 52
2485659	Iprodione	1.12	Spike	P	0 - 49
2485659	Loratadine	5.85	Spike	P	0 - 59
2485659	Malathion	6.74	Spike	P	0 - 77
2485659	Metalaxyl	1.47	Spike	P	0 - 76
2485659	Metolachlor	5.63	Spike	P	0 - 29
2485659	Metribuzin	0.701	Spike	P	0 - 51
2485659	Mevinphos	1.04	Spike	P	0 - 31
2485659	Molinate	4.13	Spike	P	0 - 39
2485659	Myclobutanil	0.672	Spike	P	0 - 34
2485659	Naled	9.76	Spike	P	0 - 37
2485659	Napropamide	25.5	Spike	P	0 - 100
2485659	Norflurazon	8.29	Spike	P	0 - 54
2485659	Octinoxate	27.9	Spike	P	0 - 35
2485659	Oxadiazon	22.4	Spike	P	0 - 34
2485659	Oxybenzone	15.3	Spike	P	0 - 35
2485659	Oxyfluorfen	13.8	Spike	P	0 - 28
2485659	Parathion Ethyl	1.59	Spike	P	0 - 31
2485659	Parathion Methyl	9.97	Spike	P	0 - 29
2485659	PBB-153	24.7	Spike	P	0 - 49

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P444998

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485659	PBDE-47	28.9	Spike	P	0 - 36
2485659	PBDE-99	27.0	Spike	P	0 - 46
2485659	Pendimethalin	8.98	Spike	P	0 - 31
2485659	Pentabromotoluene	15.4	Spike	P	0 - 16
2485659	Phenytoin	12.7	Spike	P	0 - 100
2485659	Phorate	4.81	Spike	P	0 - 36
2485659	Prodiamine	5.76	Spike	P	0 - 68
2485659	Prometon	1.95	Spike	P	0 - 35
2485659	Prometryn	14.6	Spike	P	0 - 33
2485659	Pronamide	3.79	Spike	P	0 - 24
2485659	Propanil	1.07	Spike	P	0 - 28
2485659	Propargite	4.62	Spike	P	0 - 53
2485659	Propiconazole	18.3	Spike	P	0 - 44
2485659	Pyraflufen Ethyl	20.4	Spike	P	0 - 61
2485659	Pyridaben	14.5	Spike	P	0 - 43
2485659	Pyriproxyfen	17.6	Spike	P	0 - 82
2485659	Simazine	6.07	Spike	P	0 - 29
2485659	Stirophos	7.17	Spike	P	0 - 100
2485659	Sulfentrazone	5.33	Spike	P	0 - 64
2485659	Tebuconazole	16.1	Spike	P	0 - 76
2485659	Terbufos	1.43	Spike	P	0 - 29
2485659	Terbuthylazine	3.76	Spike	P	0 - 28
2485659	Tetradecachloro-m-terphenyl	26.6	Spike	P	0 - 42
2485659	Thiobencarb	6.95	Spike	P	0 - 26
2485659	Tri-o-cresyl Phosphate	26.6	Spike	F	0 - 24
2485659	Triadimefon	7.68	Spike	P	0 - 40
2485659	Tris(1-chloro-2-propyl) phosphate (TCPP)	20.6	Spike	P	0 - 30
2485659	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	21.6	Spike	P	0 - 22
2485659	Tris(2-chloroethyl) phosphate (TCEP)	16.4	Spike	F	0 - 15

Reference Method: EPA 8276
Batch ID: P444846

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485219	Chlordane	9.94	Spike	P	0 - 28
2485219	Toxaphene	5.00	Spike	P	0 - 27

Reference Method: EPA 8321B
Batch ID: P444754

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484362	2,4-D	0.640	Spike	P	0 - 30
2484362	2,4,5-T	9.60	Spike	P	0 - 30
2484362	Acetaminophen	5.87	Spike	P	0 - 30
2484362	Acetamiprid	6.91	Spike	P	0 - 30
2484362	Afidopyropen	12.6	Spike	P	0 - 30
2484362	Bentazon	8.40	Spike	P	0 - 30
2484362	Benzovindiflupyr	2.32	Spike	P	0 - 30
2484362	Carbamazepine	3.50	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P444754

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484362	Clothianidin	6.61	Spike	P	0 - 30
2484362	Dinotefuran	4.01	Spike	P	0 - 30
2484362	Diuron	4.92	Spike	P	0 - 30
2484362	Fenuron	6.62	Spike	P	0 - 30
2484362	Fluridone	3.09	Spike	P	0 - 30
2484362	Hydrocodone	6.32	Spike	P	0 - 30
2484362	Ibuprofen	3.43	Spike	P	0 - 30
2484362	Imazapyr	9.73	Spike	P	0 - 30
2484362	Imidacloprid	8.54	Spike	P	0 - 30
2484362	Linuron	4.60	Spike	P	0 - 30
2484362	Mandestrobin	5.83	Spike	P	0 - 30
2484362	MCPP	0.802	Spike	P	0 - 30
2484362	Naproxen	28.7	Spike	P	0 - 30
2484362	Primidone	7.48	Spike	P	0 - 30
2484362	Pyraclostrobin	5.11	Spike	P	0 - 30
2484362	Silvex	0.323	Spike	P	0 - 30
2484362	Thiamethoxam	8.78	Spike	P	0 - 30
2484362	Tolfenpyrad	11.6	Spike	P	0 - 30
2484362	Triclopyr	0.117	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P444819

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484859	3-Hydroxycarbofuran	3.92	Spike	P	0 - 30
2484859	Aldicarb	14.1	Spike	P	0 - 30
2484859	Aldicarb Sulfone	2.07	Spike	P	0 - 30
2484859	Aldicarb Sulfoxide	11.1	Spike	P	0 - 30
2484859	Carbaryl	0.473	Spike	P	0 - 30
2484859	Carbofuran	3.03	Spike	P	0 - 30
2484859	Methiocarb	7.00	Spike	P	0 - 30
2484859	Methomyl	3.01	Spike	P	0 - 30
2484859	Oxamyl	0.868	Spike	P	0 - 30
2484859	Propoxur	2.67	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P444847

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484803	Acesulfame K	2.67	Spike	P	0 - 30
2484803	AMPA	0.606	Spike	P	0 - 30
2484803	Endothall	1.66	Spike	P	0 - 30
2484803	Glufosinate	4.14	Spike	P	0 - 30
2484803	Glyphosate	4.08	Spike	P	0 - 30
2484803	Sucralose	0.900	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: SM 2320 B-2011
Batch ID: P445056

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485163	Total Alkalinity	8.93	Sample	F	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P445463

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484811	TDS	7.35	Sample	P	0 - 10

Reference Method: SM 2540 C-2015
Batch ID: P445464

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485182	TDS	3.89	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P445060

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485163	Fluoride	0.495	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2014
Batch ID: P445149

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485128	Organic Carbon	1.98	Spike	P	0 - 15

Reference Method: SM 5310 B-2014
Batch ID: P445150

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485168	Organic Carbon	1.79	Spike	P	0 - 15

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2485178
Field Sample ID: G4SE0167

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	73.7	P	30 - 160

Lab Sample ID: 2485179
Field Sample ID: G4SE0167

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	104	P	30 - 160
EPA 8321B	Acetaminophen-d4	100	P	30 - 160
EPA 8321B	Carbamazepine-d10	80.7	P	30 - 160
EPA 8321B	Diuron-d6	73.3	P	30 - 160
EPA 8321B	Endothall-d6	78.8	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	71.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	70.4	P	30 - 160
EPA 8321B	Primidone-d5	98.1	P	30 - 160
EPA 8321B	Sucralose-d6	117	P	30 - 160

Lab Sample ID: 2485180
Field Sample ID: G4SE0167

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	80.5	P	37 - 129
EPA 8270E	Decachlorobiphenyl	86.4	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	57.8	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	53.2	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	58.7	P	23 - 110
EPA 8276	PCNB	79.7	P	51 - 130

Lab Sample ID: 2485181
Field Sample ID: G4SE0167

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	55.2	P	20 - 200
EPA 8270E	Simazine-d10	91.4	P	58 - 137
EPA 8270E	Terbufos-d10	126	P	50 - 134
EPA 8270E	Terphenyl-d14	107	P	44 - 134

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A125505
Included Lab Sample IDs: 2485179

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	101	120	P/P	60 - 160
Sucralose	115	127	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A125509
Included Lab Sample IDs: 2485179

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	85.3	78.6	P/P	60 - 160
Endothall	76.1	87.4	P/P	60 - 160
Glufosinate	72.3	68.1	P/P	60 - 160
Glyphosate	72.2	66.7	P/P	60 - 160

Reference Method: DEP SOP: NU-094-1
Run ID: A125553
Included Lab Sample IDs: 2485157, 2485159, 2485161, 2485163, 2485165, 2485167, 2485169

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.9	99.7	P/P	90 - 110
Color (true)	99.7	101	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A125555
Included Lab Sample IDs: 2485157, 2485159, 2485161, 2485163, 2485165, 2485167, 2485169

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	99.5	P/P	95 - 105
Turbidity	99.5	99.5	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A125610
Included Lab Sample IDs: 2485158, 2485160, 2485162, 2485164, 2485166, 2485168, 2485170

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	98.2	P/P	90 - 110
Total-P	98.0	101	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A125619
Included Lab Sample IDs: 2485157, 2485159, 2485161, 2485163, 2485165, 2485167, 2485169

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	100	97.1	P/P	90 - 110
Total Alkalinity	93.9	100	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A125619
Included Lab Sample IDs: 2485157, 2485159, 2485161, 2485163, 2485165, 2485167, 2485169

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

Quality Assurance Report
Calibration Verification

Reference Method: SM 4500-F- C-2011
Run ID: A125619
Included Lab Sample IDs: 2485157, 2485159, 2485161, 2485163, 2485165, 2485167, 2485169

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A125620
Included Lab Sample IDs: 2485158, 2485160, 2485162, 2485164, 2485166, 2485168, 2485170

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

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A125640
Included Lab Sample IDs: 2485157, 2485159, 2485161, 2485163, 2485165, 2485167, 2485169

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	103	P/P	90 - 110
Chloride	104	101	P/P	90 - 110
Sulfate	104	105	P/P	90 - 110
Sulfate	106	104	P/P	90 - 110

Reference Method: SM 5310 B-2014
Run ID: A125643
Included Lab Sample IDs: 2485158, 2485160, 2485162, 2485164, 2485166, 2485168, 2485170

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	111	98.2	P/P	70 - 130
Organic Carbon	97.9	111	P/P	85 - 115

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A125674
Included Lab Sample IDs: 2485158, 2485160, 2485162, 2485164, 2485166, 2485168, 2485170

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	102	P/P	90 - 110
Kjeldahl Nitrogen	102	97.9	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A125709
Included Lab Sample IDs: 2485181

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	93.0		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	94.0		P	80 - 120
Avobenzone	96.2		P	80 - 120
Dechlorane 602	94.8		P	80 - 120
Dechlorane 603	92.0		P	80 - 120
Dechlorane Plus	93.1		P	80 - 120
Hexabromobenzene	96.8		P	80 - 120
Octinoxate	93.4		P	80 - 120
Oxybenzone	93.9		P	80 - 120
PBB-153	95.6		P	80 - 120
PBDE-47	92.6		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A125709
Included Lab Sample IDs: 2485181

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PBDE-99	95.4		P	80 - 120
Pentabromotoluene	92.2		P	80 - 120
Tetradecachloro-m-terphenyl	89.8		P	80 - 120
Tri-o-cresyl Phosphate	93.9		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	93.0		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	95.4		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	86.8		P	80 - 120

Reference Method: EPA 8270E
Run ID: A125753
Included Lab Sample IDs: 2485180

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	94.7		P	80 - 120
PCB-1260	108		P	80 - 120

Reference Method: EPA 8270E
Run ID: A125756
Included Lab Sample IDs: 2485180

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	102		P	80 - 120
Alpha-Chlordane	100		P	80 - 120
Beta-BHC	103		P	80 - 120
Beta-Cyfluthrin	106		P	80 - 120
Bifenthrin	99.6		P	80 - 120
Chlorothalonil	93.6		P	80 - 120
Cis-Nonachlor	101		P	80 - 120
Cypermethrin	107		P	80 - 120
Dacthal	101		P	80 - 120
DDD-p,p'	101		P	80 - 120
DDE-p,p'	101		P	80 - 120
DDT-p,p'	95.4		P	80 - 120
Delta-BHC	103		P	80 - 120
Deltamethrin	109		P	80 - 120
Dichlobenil	95.7		P	80 - 120
Dicofol	94.4		P	80 - 120
Dieldrin	102		P	80 - 120
Endosulfan I	100		P	80 - 120
Endosulfan II	109		P	80 - 120
Endosulfan Sulfate	109		P	80 - 120
Endrin	101		P	80 - 120
Endrin Aldehyde	103		P	80 - 120
Endrin Ketone	101		P	80 - 120
Esfenvalerate	103		P	80 - 120
Ethalfluralin	103		P	80 - 120
Fenpropathrin	100		P	80 - 120
Gamma-BHC	100		P	80 - 120
Gamma-Chlordane	101		P	80 - 120
Heptachlor	102		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A125756
Included Lab Sample IDs: 2485180

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Heptachlor Epoxide	100		P	80 - 120
Hexachlorobenzene	102		P	80 - 120
Kepone	87.3		P	80 - 120
Lambda-Cyhalothrin	106		P	80 - 120
Methoprene	104		P	80 - 120
Methoxychlor	101		P	80 - 120
MGK-264	102		P	80 - 120
Mirex	104		P	80 - 120
Oxychlordane	101		P	80 - 120
Permethrin	106		P	80 - 120
Phenothrin	102		P	80 - 120
Piperonyl Butoxide	100		P	80 - 120
Prallethrin	103		P	80 - 120
Tau-Fluvalinate	105		P	80 - 120
Tetramethrin	104		P	80 - 120
Trans-Nonachlor	100		P	80 - 120
Triclosan Methyl	100		P	80 - 120
Trifluralin	100		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A125759
Included Lab Sample IDs: 2485158, 2485160, 2485162, 2485164, 2485166

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A125796
Included Lab Sample IDs: 2485168, 2485170

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	100	P/P	90 - 110
NO2NO3-N	94.5	102	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A125818
Included Lab Sample IDs: 2485179

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	97.5	95.7	P/P	50 - 150
2,4,5-T	117	110	P/P	50 - 150
3-Hydroxycarbofuran	113	114	P/P	60 - 150
Acetaminophen	111	109	P/P	60 - 160
Acetamiprid	115	116	P/P	50 - 150
Afidopyropen	105	116	P/P	50 - 150
Aldicarb	121	122	P/P	60 - 150
Aldicarb Sulfone	106	109	P/P	50 - 150
Aldicarb Sulfoxide	102	108	P/P	50 - 150
Bentazon	133	126	P/P	50 - 160
Benzovindiflupyr	114	109	P/P	50 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A125818
Included Lab Sample IDs: 2485179

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carbamazepine	120	117	P/P	60 - 150
Carbaryl	121	114	P/P	60 - 150
Carbofuran	121	116	P/P	50 - 150
Clothianidin	107	104	P/P	60 - 150
Dinotefuran	110	113	P/P	50 - 150
Diuron	125	121	P/P	60 - 160
Fenuron	111	108	P/P	60 - 150
Fluridone	134	131	P/P	60 - 160
Hydrocodone	116	116	P/P	60 - 150
Ibuprofen	92.9	99.1	P/P	50 - 160
Imazapyr	94.0	90.3	P/P	50 - 150
Imidacloprid	102	102	P/P	60 - 150
Linuron	117	109	P/P	60 - 150
Mandestrobin	107	110	P/P	50 - 150
MCPP	99.6	100	P/P	50 - 150
Methiocarb	118	125	P/P	50 - 150
Methomyl	106	109	P/P	50 - 150
Naproxen	85.9	104	P/P	50 - 160
Oxamyl	107	110	P/P	50 - 150
Primidone	104	99.1	P/P	60 - 150
Propoxur	117	116	P/P	50 - 150
Pyraclostrobin	104	103	P/P	60 - 150
Silvex	101	102	P/P	50 - 150
Thiamethoxam	113	115	P/P	50 - 150
Tolfenpyrad	103	105	P/P	60 - 150
Triclopyr	92.0	96.5	P/P	50 - 150

Reference Method: EPA 8276
Run ID: A125841
Included Lab Sample IDs: 2485180

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	95.4		P	80 - 120
Toxaphene	96.7		P	80 - 120

Reference Method: EPA 8270E
Run ID: A125868
Included Lab Sample IDs: 2485181

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	87.3		P	80 - 120
Alachlor	87.8		P	80 - 120
Ametryn	107		P	80 - 120
Atrazine	87.1		P	80 - 120
Atrazine Desethyl	97.8		P	80 - 120
Azinphos Methyl	99.1		P	80 - 120
Azoxystrobin	101		P	80 - 120
Bromacil	100		P	80 - 120
Butylate	99.5		P	80 - 120
Caffeine	104		P	80 - 120
Carbophenothion	97.6		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A125868
Included Lab Sample IDs: 2485181

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carfentrazone Ethyl	98.4		P	80 - 120
Chlorfenapyr	86.2		P	80 - 120
Chlorpyrifos Ethyl	92.5		P	80 - 120
Chlorpyrifos Methyl	99.5		P	80 - 120
Coumaphos	97.7		P	80 - 120
Cyanazine	101		P	80 - 120
Cyprodinil	85.7		P	80 - 120
Demeton	94.4		P	80 - 120
Diazinon	100		P	80 - 120
Difenoconazole	95.6		P	80 - 120
Dimethenamid	98.5		P	80 - 120
Dimethomorph	92.0		P	80 - 120
Disulfoton	98.5		P	80 - 120
Dithiopyr	99.5		P	80 - 120
EPTC	98.3		P	80 - 120
Ethion	88.7		P	80 - 120
Ethoprop	100		P	80 - 120
Etridiazole	96.3		P	80 - 120
Fenamiphos	86.4		P	80 - 120
Fenbuconazole	96.2		P	80 - 120
Fipronil	85.5		P	80 - 120
Fipronil Desulfinyl	99.1		P	80 - 120
Fipronil Sulfide	99.2		P	80 - 120
Fipronil Sulfone	99.8		P	80 - 120
Fluazifop-P-butyl	101		P	80 - 120
Fludioxonil	95.5		P	80 - 120
Flumioxazin	92.8		P	80 - 120
Flutolanil	99.4		P	80 - 120
Fluxapyroxad	93.7		P	80 - 120
Fonofos	96.4		P	80 - 120
Hexazinone	99.8		P	80 - 120
Imazalil	97.9		P	80 - 120
Iprodione	86.4		P	80 - 120
Loratadine	91.0		P	80 - 120
Malathion	88.1		P	80 - 120
Metalaxyl	84.5		P	80 - 120
Metolachlor	95.9		P	80 - 120
Metribuzin	96.4		P	80 - 120
Mevinphos	94.3		P	80 - 120
Molinate	92.9		P	80 - 120
Myclobutanil	98.1		P	80 - 120
Naled	96.7		P	80 - 120
Napropamide	99.8		P	80 - 120
Norflurazon	109		P	80 - 120
Oxadiazon	98.1		P	80 - 120
Oxyfluorfen	102		P	80 - 120
Parathion Ethyl	101		P	80 - 120
Parathion Methyl	82.8		P	80 - 120
Pendimethalin	100		P	80 - 120
Phenytoin	96.0		P	80 - 120
Phorate	98.3		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A125868
Included Lab Sample IDs: 2485181

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Prodiamine	98.0		P	80 - 120
Prometon	98.0		P	80 - 120
Prometryn	100		P	80 - 120
Pronamide	99.1		P	80 - 120
Propanil	94.8		P	80 - 120
Propargite	102		P	80 - 120
Propiconazole	85.4		P	80 - 120
Pyraflufen Ethyl	98.9		P	80 - 120
Pyridaben	96.7		P	80 - 120
Pyriproxyfen	108		P	80 - 120
Simazine	82.2		P	80 - 120
Stirophos	87.3		P	80 - 120
Sulfentrazone	107		P	80 - 120
Tebuconazole	99.2		P	80 - 120
Terbufos	99.0		P	80 - 120
Terbuthylazine	99.6		P	80 - 120
Thiobencarb	98.8		P	80 - 120
Triadimefon	96.7		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)	99.6				0.832	
	Color (true)	97.3				3.59	
EPA 180.1 Rev. 2.0	Turbidity	104				5.39	
EPA 300.0 Rev. 2.1	Chloride	105	103	106		0.0398	
	Sulfate	108	103	107		0.762	
EPA 350.1 Rev. 2.0	Ammonia-N	94.4	96.8	98.4			1.50
	Ammonia-N	96.6	93.4	96.0			2.40
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	100					4.53
EPA 353.2 Rev. 2.0	NO2NO3-N	98.5	100	102			1.42
	NO2NO3-N	100	110	108			2.30
EPA 365.1 Rev. 2.0	Total-P	102	106	105			1.19
	Total-P	101	104	104			0.572
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	102	37.5	45.6			19.3
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	86.9	66.2	84.0			23.7
	Acetochlor	81.8	88.2	88.6			0.511
	Alachlor	75.2	86.4	84.6			2.16
	Aldrin	61.2	68.1	67.3			1.20
	Alpha-BHC	93.8	92.2	92.7			0.566
	Alpha-Chlordane	81.1	73.9	86.1			15.3
	Ametryn	90.6	108	80.5			29.4
	Atrazine	81.7	92.9	105			6.66
	Atrazine Desethyl	63.9	65.1	76.9			16.6
	Avobenzone	135	87.8	116			28.0
	Azinphos Methyl	76.7	92.0	95.6			3.86
	Azoxystrobin	85.8	110	110			0.0244
	Beta-BHC	112	106	105			1.12
	Beta-Cyfluthrin	139	136	153			12.1
	Bifenthrin	99.2	93.1	102			9.66
	Bromacil	81.1	103	94.8			8.53
	Butylate	56.1	65.3	65.7			0.589
	Caffeine	75.1	144	162			8.08
	Carbophenothion	79.7	72.0	95.6			28.2
	Carfentrazone Ethyl	87.1	92.7	81.4			13.0
	Chlorfenapyr	77.8	70.6	84.3			17.7
	Chlorothalonil	122	172	231			29.2
	Chlorpyrifos Ethyl	99.5	84.2	87.3			3.56
	Chlorpyrifos Methyl	93.0	113	110			3.27
	Cis-Nonachlor	82.3	76.0	73.0			3.93
	Coumaphos	87.5	178	189			5.78
	Cyanazine	101	110	106			3.48
	Cypermethrin	145	147	174			16.5
	Cyprodinil	67.3	85.1	94.1			10.0
	Dacthal	91.8	87.6	93.2			6.20
	DDD-p,p'	82.4	79.4	74.9			5.85
	DDE-p,p'	86.6	74.7	75.6			1.14
	DDT-p,p'	82.6	81.4	87.4			7.08
	Dechlorane 602	98.9	30.1	36.6			19.5
	Dechlorane 603	110	47.6	53.6			11.9
	Dechlorane Plus	112	39.3	45.6			14.8
	Delta-BHC	128	123	149			19.4
	Deltamethrin	248	184	227			21.1

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Demeton	82.7	328	317			3.40
	Diazinon	93.6	114	117			2.40
	Dichlobenil	55.5	63.5	55.1			14.3
	Dicofol	78.2	71.9	65.7			8.91
	Dieldrin	81.8	75.5	77.0			2.01
	Difenoconazole	108	192	203			5.91
	Dimethenamid	83.3	96.4	97.8			1.51
	Dimethomorph	167	215	230			6.76
	Disulfoton	81.5	94.5	98.4			3.96
	Dithiopyr	83.0	27.2	48.6			56.5
	Endosulfan I	92.4	87.9	103			15.4
	Endosulfan II	92.5	90.4	104			13.9
	Endosulfan Sulfate	102	89.3	95.2			6.37
	Endrin	88.6	82.3	80.0			2.88
	Endrin Aldehyde	63.8	64.2	77.3			18.5
	Endrin Ketone	86.3	81.8	87.7			7.00
	EPTC	45.7	52.4	60.2			13.8
	Esfenvalerate	196	172	206			18.3
	Ethalfluralin	82.0	80.7	71.8			11.7
	Ethion	86.2	37.5	45.3			14.7
	Ethoprop	86.6	99.5	94.5			5.11
	Etridiazole	54.8	72.2	68.1			5.72
	Fenamiphos	72.4	95.9	101			5.36
	Fenbuconazole	31.1	56.6	48.1			16.1
	Fenpropathrin	97.8	93.4	100			7.22
	Fipronil	76.9	78.5	86.3			9.52
	Fipronil Desulfinyl	87.6	81.1	83.9			3.36
	Fipronil Sulfide	78.1	79.2	92.1			15.1
	Fipronil Sulfone	74.3	83.7	93.3			10.8
	Fluazifop-P-butyl	92.2	87.4	96.8			10.2
	Fludioxonil	73.2	80.9	90.0			10.8
	Flumioxazin	111	145	147			0.938
	Flutolanil	57.9	61.7	64.6			3.05
	Fluxapyroxad	68.0	82.2	87.7			3.26
	Fonofos	74.7	91.4	94.6			3.42
	Gamma-BHC	84.2	85.4	90.4			5.66
	Gamma-Chlordane	87.0	78.4	86.8			10.2
	Heptachlor	78.0	72.7	71.7			1.39
	Heptachlor Epoxide	86.2	80.7	85.8			6.13
	Hexabromobenzene	101	95.9	142			38.9
	Hexachlorobenzene	84.4	74.7	63.8			15.8
	Hexazinone	88.6	82.1	83.8			2.11
	Imazalil	68.5	93.8	82.5			12.8
	Iprodione	122	121	119			1.12
	Kepone	113	95.4	95.8			0.421
	Lambda-Cyhalothrin	116	136	149			9.17
	Loratadine	136	187	198			5.85
	Malathion	102	121	130			6.74
	Metalaxyl	70.2	80.0	78.8			1.47
	Methoprene	84.2	87.9	97.9			10.7
	Methoxychlor	103	89.3	106			17.4
	Metolachlor	105	102	107			5.63
	Metribuzin	90.9	97.5	98.1			0.701
	Mevinphos	73.5	97.3	98.3			1.04

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	MGK-264	73.8	87.3	95.7			9.13
	Mirex	85.8	74.7	85.2			13.1
	Molinate	56.3	68.2	71.1			4.13
	Myclobutanil	85.3	82.3	82.9			0.672
	Naled	66.1	50.6	55.7			9.76
	Napropamide	76.2	51.1	66.1			25.5
	Norflurazon	55.4	73.2	79.5			8.29
	Octinoxate	136	61.6	81.5			27.9
	Oxadiazon	74.7	73.1	95.5			22.4
	Oxybenzone	148	90.1	105			15.3
	Oxychlordane	81.0	79.2	89.6			12.4
	Oxyfluorfen	105	96.8	111			13.8
	Parathion Ethyl	88.9	98.8	97.2			1.59
	Parathion Methyl	105	128	116			9.97
	PBB-153	90.6	72.0	92.3			24.7
	PBDE-47	141	49.7	66.5			28.9
	PBDE-99	100	47.1	61.8			27.0
	PCB-1016	51.8	62.1	65.1			4.65
	PCB-1260	77.1	84.6	91.3			7.66
	Pendimethalin	109	102	112			8.98
	Pentabromotoluene	123	64.6	75.3			15.4
	Permethrin	128	130	142			8.50
	Phenothrin	83.4	113	117			3.22
	Phenytoin	64.8	9.44	10.7			12.7
	Phorate	78.6	96.6	101			4.81
	Piperonyl Butoxide	85.8	79.8	78.8			1.30
	Prallethrin	78.3	96.5	97.0			0.587
	Prodiamine	36.4	56.3	59.6			5.76
	Prometon	81.3	83.7	85.3			1.95
	Prometryn	87.6	77.6	89.8			14.6
	Pronamide	98.3	113	118			3.79
	Propanil	105	105	103			1.07
	Propargite	105	62.0	64.9			4.62
	Propiconazole	64.5	58.9	70.7			18.3
	Pyraflufen Ethyl	73.8	73.5	90.2			20.4
	Pyridaben	96.9	142	176			14.5
	Pyriproxyfen	64.7	67.5	80.5			17.6
	Simazine	80.9	81.7	86.8			6.07
	Stirophos	106	44.0	47.2			7.17
	Sulfentrazone	65.4	55.1	58.1			5.33
	Tau-Fluvalinate	183	196	224			13.4
	Tebuconazole	67.8	38.6	45.3			16.1
	Terbufos	93.0	106	107			1.43
	Terbuthylazine	97.3	110	106			3.76
	Tetradecachloro-m-terphenyl	109	66.0	86.2			26.6
	Tetramethrin	87.4	104	109			4.91
	Thiobencarb	82.7	90.7	97.3			6.95
	Trans-Nonachlor	89.9	77.5	90.2			15.2
	Tri-o-cresyl Phosphate	145	68.9	90.1			26.6
	Triadimefon	86.1	100	92.7			7.68
	Triclosan Methyl	91.2	83.2	88.5			6.12
	Trifluralin	80.9	73.5	69.7			5.25
	Tris(1-chloro-2-propyl) phosphate (TCPP)	116	76.0	93.4			20.6

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)	117	75.4	95.7			21.6
	Tris(2-chloroethyl) phosphate (TCEP)	129	94.4	111			16.4
EPA 8276	Chlordane	75.7	79.6	87.9			9.94
	Toxaphene	74.3	89.7	94.3			5.00
EPA 8321B	2,4-D	129	148	147			0.640
	2,4,5-T	121	140	127			9.60
	3-Hydroxycarbofuran	85.2	78.3	81.5			3.92
	Acesulfame K	94.7	101	104			2.67
	Acetaminophen	79.5	96.5	102			5.87
	Acetamiprid	75.1	74.8	80.1			6.91
	Afidopyropen	55.5	56.6	64.3			12.6
	Aldicarb	72.7	38.5	44.4			14.1
	Aldicarb Sulfone	94.8	82.3	80.6			2.07
	Aldicarb Sulfoxide	86.4	33.7	30.2			11.1
	AMPA	89.8	80.8	81.3			0.606
	Bentazon	105	86.6	96.7			8.40
	Benzovindiflupyr	72.9	79.9	81.7			2.32
	Carbamazepine	79.7	78.0	80.8			3.50
	Carbaryl	77.2	53.0	53.2			0.473
	Carbofuran	76.7	47.7	46.3			3.03
	Clothianidin	87.3	100	107			6.61
	Dinotefuran	93.2	114	119			4.01
	Diuron	72.4	66.3	69.8			4.92
	Endothall	85.4	99.7	101			1.66
	Fenuron	85.0	92.5	98.8			6.62
	Fluridone	79.2	84.9	88.6			3.09
	Glufosinate	82.7	75.3	72.3			4.14
	Glyphosate	81.0	72.2	75.2			4.08
	Hydrocodone	86.6	101	107			6.32
	Ibuprofen	71.1	73.3	75.8			3.43
	Imazapyr	84.0	99.8	112			9.73
	Imidacloprid	84.4	105	117			8.54
	Linuron	72.9	70.0	73.3			4.60
	Mandestrobin	70.0	72.0	76.4			5.83
	MCPP	121	133	132			0.802
	Methiocarb	73.9	68.4	63.8			7.00
	Methomyl	91.5	69.1	67.1			3.01
	Naproxen	76.4	59.7	79.7			28.7
	Oxamyl	93.0	77.6	78.3			0.868
	Primidone	83.4	92.7	99.9			7.48
	Propoxur	75.8	42.6	43.7			2.67
	Pyraclostrobin	71.5	75.6	79.6			5.11
	Silvex	101	98.5	98.2			0.323
	Sucralose	113	104	105			0.900
	Thiamethoxam	90.7	108	118			8.78
	Tolfenpyrad	47.2	52.8	59.3			11.6
	Triclopyr	114	124	124			0.117
SM 2320 B-2011	Total Alkalinity	98.2				8.93	
SM 2540 C-2015	TDS	93.6				7.35	
	TDS	98.8				3.89	
SM 2540 D-2015	TSS	102					
	TSS	96.8					

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
SM 4500-F- C-2011	Fluoride	102	103	103			0.495
SM 5310 B-2014	Organic Carbon	98.2	99.2	102			1.98
	Organic Carbon	98.7	98.0	99.9			1.79

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2485157, 2485159, 2485161, 2485163, 2485165, 2485167, 2485169
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2485157, 2485159, 2485161, 2485163, 2485165, 2485167, 2485169
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2485157, 2485159, 2485161, 2485163, 2485165, 2485167, 2485169
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2485157, 2485159, 2485161, 2485163, 2485165, 2485167, 2485169
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2485158, 2485160, 2485162, 2485164, 2485166, 2485168, 2485170
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2485158, 2485160, 2485162, 2485164, 2485166, 2485168, 2485170
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2485158, 2485160, 2485162, 2485164, 2485166, 2485168, 2485170
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2485158, 2485160, 2485162, 2485164, 2485166, 2485168, 2485170
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2485181
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2485180
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2485181
EPA 8270E	PCBs in water matrices by GC/MS/MS	2485180
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2485180
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2485178
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2485179
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2485157, 2485159, 2485161, 2485163, 2485165, 2485167, 2485169
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2485157, 2485159, 2485161, 2485163, 2485165, 2485167, 2485169
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2485157, 2485159, 2485161, 2485163, 2485165, 2485167, 2485169
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2485157, 2485159, 2485161, 2485163, 2485165, 2485167, 2485169
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2485158, 2485160, 2485162, 2485164, 2485166, 2485168, 2485170

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	04/26/2024			04/26/2024 13:50	Samantha L Bates	2485157
	04/26/2024			04/26/2024 13:52	Samantha L Bates	2485159
	04/26/2024			04/26/2024 13:53	Samantha L Bates	2485161, 2485163
	04/26/2024			04/26/2024 13:54	Samantha L Bates	2485165, 2485167
	04/26/2024			04/26/2024 13:55	Samantha L Bates	2485169
EPA 180.1 Rev. 2.0	04/26/2024			04/26/2024 13:56	Samantha L Bates	2485157
	04/26/2024			04/26/2024 13:58	Samantha L Bates	2485159
	04/26/2024			04/26/2024 14:00	Samantha L Bates	2485161, 2485163
	04/26/2024			04/26/2024 14:02	Samantha L Bates	2485165, 2485167
	04/26/2024			04/26/2024 14:05	Samantha L Bates	2485169
EPA 300.0 Rev. 2.1	04/26/2024			05/02/2024 03:10	Samantha L Bates	2485165
	04/26/2024			05/02/2024 05:26	Samantha L Bates	2485157
	04/26/2024			05/02/2024 05:41	Samantha L Bates	2485159
	04/26/2024			05/02/2024 05:57	Samantha L Bates	2485161
	04/26/2024			05/02/2024 06:42	Samantha L Bates	2485163
	04/26/2024			05/02/2024 06:57	Samantha L Bates	2485167
	04/26/2024			05/02/2024 07:12	Samantha L Bates	2485169
EPA 350.1 Rev. 2.0	04/26/2024			05/01/2024 13:27	Khloe J Berg	2485158
	04/26/2024			05/01/2024 13:39	Khloe J Berg	2485160
	04/26/2024			05/01/2024 13:43	Khloe J Berg	2485162
	04/26/2024			05/01/2024 13:44	Khloe J Berg	2485164
	04/26/2024			05/01/2024 13:46	Khloe J Berg	2485166
	04/26/2024			05/01/2024 13:47	Khloe J Berg	2485168
	04/26/2024			05/01/2024 13:48	Khloe J Berg	2485170
EPA 351.2 Rev. 2.0	04/26/2024	04/30/2024 10:41	Robyn Blevins	05/03/2024 14:09	Robyn Blevins	2485158
	04/26/2024	04/30/2024 10:41	Robyn Blevins	05/03/2024 14:11	Robyn Blevins	2485160
	04/26/2024	04/30/2024 10:41	Robyn Blevins	05/03/2024 14:12	Robyn Blevins	2485162
	04/26/2024	04/30/2024 10:41	Robyn Blevins	05/03/2024 14:14	Robyn Blevins	2485164
	04/26/2024	04/30/2024 10:41	Robyn Blevins	05/03/2024 14:15	Robyn Blevins	2485166
	04/26/2024	04/30/2024 10:41	Robyn Blevins	05/03/2024 14:20	Robyn Blevins	2485168
	04/26/2024	04/30/2024 10:41	Robyn Blevins	05/03/2024 14:22	Robyn Blevins	2485170
EPA 353.2 Rev. 2.0	04/26/2024			05/08/2024 14:42	Fadila Guebre	2485158
	04/26/2024			05/08/2024 15:40	Fadila Guebre	2485160
	04/26/2024			05/08/2024 15:41	Fadila Guebre	2485162
	04/26/2024			05/08/2024 15:43	Fadila Guebre	2485164
	04/26/2024			05/08/2024 15:44	Fadila Guebre	2485166
	04/26/2024			05/09/2024 12:40	Fadila Guebre	2485170
	04/26/2024			05/09/2024 14:27	Fadila Guebre	2485168
EPA 365.1 Rev. 2.0	04/26/2024	04/30/2024 12:43	Adam P Silver	05/01/2024 11:54	Chandler E Cox	2485160
	04/26/2024	04/30/2024 12:43	Adam P Silver	05/01/2024 11:57	Chandler E Cox	2485158

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 365.1 Rev. 2.0	04/26/2024	04/30/2024 12:43	Adam P Silver	05/01/2024 11:58	Chandler E Cox	2485162
	04/26/2024	04/30/2024 12:43	Adam P Silver	05/01/2024 12:06	Chandler E Cox	2485164
	04/26/2024	04/30/2024 12:43	Adam P Silver	05/01/2024 12:08	Chandler E Cox	2485166, 2485170
	04/26/2024	04/30/2024 12:43	Adam P Silver	05/01/2024 12:09	Chandler E Cox	2485168
EPA 8270E	04/26/2024	04/29/2024 08:00	Rasheda Ghaffari	05/03/2024 06:25	Lipi Saha	2485180
	04/26/2024	04/29/2024 08:00	Rasheda Ghaffari	05/04/2024 00:39	Kenedi Mills	2485180
	04/26/2024	05/01/2024 11:37	Rasheda Ghaffari	05/03/2024 22:33	Arthur Maknenko	2485181
	04/26/2024	05/01/2024 11:37	Rasheda Ghaffari	05/09/2024 20:42	Julie Wi	2485181
EPA 8276	04/26/2024	04/29/2024 08:00	Rasheda Ghaffari	05/04/2024 17:10	Arthur Maknenko	2485180
EPA 8321B	04/26/2024	04/26/2024 13:00	Hana Lee	04/26/2024 16:34	Hana Lee	2485179
	04/26/2024	04/26/2024 13:00	Hana Lee	04/29/2024 14:09	Hana Lee	2485179
	04/26/2024	04/26/2024 13:00	Hoor Shaik	05/09/2024 20:39	Juyoung Kim	2485179
	04/26/2024	04/30/2024 13:00	Hoor Shaik	05/10/2024 01:24	Juyoung Kim	2485178
SM 2320 B-2011	04/26/2024			04/30/2024 21:18	Dale L. Simmons	2485163
	04/26/2024			04/30/2024 22:24	Dale L. Simmons	2485157
	04/26/2024			04/30/2024 23:15	Dale L. Simmons	2485159
	04/26/2024			04/30/2024 23:27	Dale L. Simmons	2485161
	04/26/2024			04/30/2024 23:38	Dale L. Simmons	2485165
	04/26/2024			04/30/2024 23:49	Dale L. Simmons	2485167
	04/26/2024			05/01/2024 00:01	Dale L. Simmons	2485169
SM 2540 C-2015	04/26/2024			04/30/2024 15:24	Yijie Li	2485157, 2485159, 2485161, 2485163, 2485165, 2485167, 2485169
SM 2540 D-2015	04/26/2024			04/30/2024 15:24	Yijie Li	2485157, 2485159, 2485161, 2485163, 2485165, 2485167, 2485169
SM 4500-F- C-2011	04/26/2024			04/30/2024 21:09	Dale L. Simmons	2485163
	04/26/2024			04/30/2024 22:24	Dale L. Simmons	2485157
	04/26/2024			04/30/2024 23:15	Dale L. Simmons	2485159
	04/26/2024			04/30/2024 23:27	Dale L. Simmons	2485161
	04/26/2024			04/30/2024 23:38	Dale L. Simmons	2485165
	04/26/2024			04/30/2024 23:49	Dale L. Simmons	2485167
	04/26/2024			05/01/2024 00:01	Dale L. Simmons	2485169
SM 5310 B-2014	04/26/2024			05/02/2024 01:06	Jessica K Wilks	2485158
	04/26/2024			05/02/2024 01:21	Jessica K Wilks	2485160
	04/26/2024			05/02/2024 01:37	Jessica K Wilks	2485162
	04/26/2024			05/02/2024 01:52	Jessica K Wilks	2485164
	04/26/2024			05/02/2024 02:07	Jessica K Wilks	2485166
	04/26/2024			05/02/2024 04:13	Jessica K Wilks	2485168
	04/26/2024			05/02/2024 05:00	Jessica K Wilks	2485170