Chemical Analysis Report

SE-DIST-2023-06-06-01

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

Event Description: **Basinger Run**
Request ID: **RQ-2023-05-08-18**
Customer: **SE-DIST**
Project ID: **SMP**

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

For additional information please contact
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Certified by: Chris Bowen, Environmental Administrator

Date Certified: 26-JUN-2023 10:15

Chris Bowen

Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical groups are included in this report: Metals, Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

A - Value reported is the mean of two or more determinations.
B - Results based on colony counts outside the acceptable range.
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J - Estimated value and/or the analysis did not meet established quality control criteria.
K - Actual value is known to be less than value given.
L - Actual value is known to be greater than value given.
N - Presumptive evidence of presence of material.
O - Sampled, but analysis lost or not performed.
Q - Sample held beyond normal holding time.
T - Value reported is less than the criterion of detection.
U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
V - Analyte was detected in both sample and method blank.
X - Too few individuals to calculate SCI value.
Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: CHANDLER SLOUGH AT SOUTHERN US98 CULVERT **Collection Date/Time: 06/05/2023 10:20**

Field ID: G4SE0142 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2414595	DEP SOP: NU-094-1	Color (true)	170		PCU	P430871	
	EPA 180.1 Rev. 2.0	Turbidity	3.7		NTU	P430867	
	EPA 300.0 Rev. 2.1	Chloride	300		mg Cl/L	P430961	
		Sulfate	170		mg SO4/L	P430965	
	SM 2320 B-2011	Total Alkalinity	57		mg CaCO3/L	P431144	
	SM 2540 C-2015	TDS	854		mg/L	P431306	
	SM 2540 D-2015	TSS	2	U	mg/L	P431089	
	SM 4500-F- C-2011	Fluoride	0.13		mg F/L	P431429	
2414596	EPA 350.1 Rev. 2.0	Ammonia-N	0.031		mg N/L	P430925	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P430879	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.020		mg N/L	P431131	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P430887	
	SM 5310 B-2011	Organic Carbon	27		mg C/L	P430957	
2414609	EPA 8321B	Aldicarb	0.020	U	ug/L	P430798	
		Aldicarb Sulfone	0.0020	U	ug/L	P430798	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P430798	MS
		Carbaryl	0.0020	U	ug/L	P430798	
		Carbofuran	0.0020	U	ug/L	P430798	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P430798	
		Methiocarb	0.0020	U	ug/L	P430798	
		Methomyl	0.0020	U	ug/L	P430798	
		Oxamyl	0.0020	U	ug/L	P430798	
		Propoxur	0.0020	U	ug/L	P430798	
2414610		2,4-D	0.0020	U	ug/L	P430834	
		Acesulfame K	0.10	U	ug/L	P430789	
		2,4,5-T	0.0040	U	ug/L	P430834	
		AMPA	0.10	U	ug/L	P430789	
		Acetaminophen	0.0080	U	ug/L	P430834	
		Acetamiprid	0.0020	U	ug/L	P430834	
		Endothall	0.25	U	ug/L	P430789	
		Glufosinate	0.10	U	ug/L	P430789	
		Glyphosate	0.10	U	ug/L	P430789	
		Afidopyropen	0.0020	U	ug/L	P430834	
		Bentazon	0.48		ug/L	P430834	
		Sucralose	0.010	U	ug/L	P430789	
		Benzovindiflupyr	0.0020	U	ug/L	P430834	
		Carbamazepine	8.0E-04	U	ug/L	P430834	
		Clothianidin	0.0028	I	ug/L	P430834	
		Dinotefuran	0.0020	U	ug/L	P430834	
		Diuron	0.0020	U	ug/L	P430834	
		Fenuron	0.032	U	ug/L	P430834	
		Fluridone	8.0E-04	U	ug/L	P430834	
		Imazapyr	0.0042	I	ug/L	P430834	

Field ID: G4SE0142 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2414610	EPA 8321B	Hydrocodone	0.0020	U	ug/L	P430834	
		Ibuprofen	0.080	U	ug/L	P430834	
		Imidacloprid	0.026		ug/L	P430834	
		Linuron	0.0040	U	ug/L	P430834	
		Mandestrobin	0.0020	U	ug/L	P430834	
		MCPP	0.0020	U	ug/L	P430834	
		Naproxen	0.0080	U	ug/L	P430834	
		Primidone	0.0040	U	ug/L	P430834	
		Pyraclostrobin	0.0020	U	ug/L	P430834	
		Silvex	0.0040	U	ug/L	P430834	
		Thiamethoxam	0.024		ug/L	P430834	
		Tolfenpyrad	0.0020	U	ug/L	P430834	
		Triclopyr	0.0040	U	ug/L	P430834	
2414613	EPA 8270E	Aldrin	0.66	U	ng/L	P430905	
		Alpha-BHC	0.10	U	ng/L	P430905	
		Alpha-Chlordane	0.20	U	ng/L	P430905	
		PCB-1016	2.0	U	ng/L	P430905	
		Beta-BHC	0.10	U	ng/L	P430905	
		PCB-1221	2.0	U	ng/L	P430905	
		Beta-Cyfluthrin	1.3	U	ng/L	P430905	
		PCB-1232	2.0	U	ng/L	P430905	
		Bifenthrin	0.51	U	ng/L	P430905	
		PCB-1242	2.0	U	ng/L	P430905	
		PCB-1248	2.0	U	ng/L	P430905	
		Chlorothalonil	3.7	U	ng/L	P430905	
		PCB-1254	2.0	U	ng/L	P430905	
		Cis-Nonachlor	0.20	U	ng/L	P430905	
		PCB-1260	2.0	U	ng/L	P430905	
		Cypermethrin	1.5	U	ng/L	P430905	
		Dacthal	0.15	U	ng/L	P430905	
		DDD-p,p'	0.25	U	ng/L	P430905	
		DDE-p,p'	0.20	U	ng/L	P430905	
		DDT-p,p'	0.41	I	ng/L	P430905	
		Delta-BHC	0.41	U	ng/L	P430905	
		Deltamethrin	1.3	U	ng/L	P430905	
		Dichlobenil	0.25	U	ng/L	P430905	
		Dicofol	1.3	U	ng/L	P430905	
		Dieldrin	0.41	U	ng/L	P430905	
		Endosulfan I	0.41	U	ng/L	P430905	
		Endosulfan II	0.41	U	ng/L	P430905	
		Endosulfan Sulfate	0.30	U	ng/L	P430905	
		Endrin	0.41	U	ng/L	P430905	
		Endrin Aldehyde	0.76	U	ng/L	P430905	
		Endrin Ketone	0.41	U	ng/L	P430905	
		Esfenvalerate	0.76	U	ng/L	P430905	

Field ID: G4SE0142 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2414613	EPA 8270E	Ethalfluralin	0.15	U	ng/L	P430905	
		Fenpropathrin	0.25	UJ	ng/L	P430905	CCV, RPD
		Gamma-BHC	0.13	U	ng/L	P430905	
		Gamma-Chlordane	0.20	U	ng/L	P430905	
		Heptachlor	0.20	U	ng/L	P430905	
		Heptachlor Epoxide	0.25	U	ng/L	P430905	
		Hexachlorobenzene**	1.0	U	ng/L	P430905	
		Kepone	5.1	UJ	ng/L	P430905	CCV
		Lambda-Cyhalothrin	0.76	U	ng/L	P430905	
		Methoprene	0.76	U	ng/L	P430905	
		Methoxychlor	0.30	U	ng/L	P430905	
		MGK-264	0.20	U	ng/L	P430905	
		Mirex	0.36	U	ng/L	P430905	
		Oxychlordane	0.30	U	ng/L	P430905	
		Permethrin	1.6	U	ng/L	P430905	
		Phenothrin	0.91	U	ng/L	P430905	RPD
		Piperonyl Butoxide	0.15	U	ng/L	P430905	
		Prallethrin	2.0	U	ng/L	P430905	
		Tau-Fluvalinate	0.25	U	ng/L	P430905	
		Tetramethrin	0.76	U	ng/L	P430905	
		Trans-Nonachlor	0.20	U	ng/L	P430905	
		Triclosan Methyl	0.15	U	ng/L	P430905	
		Trifluralin	0.20	U	ng/L	P430905	
	EPA 8276	Chlordane	2.0	U	ng/L	P430905	
		Toxaphene	15	U	ng/L	P430905	
2414614	EPA 8270E	Oxybenzone**	10	U	ng/L	P430843	MS
		Acetochlor	0.20	U	ng/L	P430843	
		Octinoxate**	20	U	ng/L	P430843	
		Alachlor	0.41	U	ng/L	P430843	
		Avobenzone**	100	U	ng/L	P430843	MS
		Ametryn	1.9	I	ng/L	P430843	
		Atrazine	4.4		ng/L	P430843	
		PBDE-47**	4.1	U	ng/L	P430843	
		Atrazine Desethyl	1.3	U	ng/L	P430843	
		PBDE-99**	5.1	U	ng/L	P430843	
		Azinphos Methyl	3.1	U	ng/L	P430843	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P430843	MS
		Azoxystrobin	8.3	J	ng/L	P430843	
		Bromacil	0.61	U	ng/L	P430843	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P430843	
		Butylate	0.20	U	ng/L	P430843	
		Dechlorane Plus**	31	U	ng/L	P430843	
		Caffeine**	7.7	U	ng/L	P430843	
		Dechlorane 602**	5.1	U	ng/L	P430843	

Field ID: G4SE0142 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2414614	EPA 8270E	Carbophenothion	0.51	U	ng/L	P430843	
		Dechlorane 603**	4.1	U	ng/L	P430843	MS
		Carfentrazone Ethyl	0.15	U	ng/L	P430843	
		Hexabromobenzene**	6.1	U	ng/L	P430843	
		Chlorfenapyr	0.31	U	ng/L	P430843	
		PBB-153**	8.2	U	ng/L	P430843	MS
		Chlorpyrifos Ethyl	0.31	U	ng/L	P430843	
		Pentabromotoluene**	3.1	U	ng/L	P430843	
		Chlorpyrifos Methyl	0.10	U	ng/L	P430843	
		Tris(2-chloroethyl) phosphate (TCEP)**	71	U	ng/L	P430843	
		Coumaphos	1.1	U	ng/L	P430843	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	15	U	ng/L	P430843	
		Cyanazine	5.1	U	ng/L	P430843	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P430843	
		Cyprodinil	0.20	U	ng/L	P430843	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P430843	MS
		Demeton	3.6	U	ng/L	P430843	
		Diazinon	0.13	U	ng/L	P430843	
		Difenoconazole	0.61	U	ng/L	P430843	
		Dimethenamid	0.10	U	ng/L	P430843	MS
		Dimethomorph	0.31	U	ng/L	P430843	
		Disulfoton	0.61	U	ng/L	P430843	
		Dithiopyr	1.0	U	ng/L	P430843	
		EPTC	0.51	U	ng/L	P430843	
		Ethion	0.31	U	ng/L	P430843	
		Ethoprop	0.13	U	ng/L	P430843	
		Etridiazole	0.10	U	ng/L	P430843	
		Fenamiphos	0.46	U	ng/L	P430843	
		Fenbuconazole	0.51	U	ng/L	P430843	
		Fipronil	0.20	U	ng/L	P430843	
		Fipronil Desulfinyl**	0.12	I	ng/L	P430843	
		Fipronil Sulfide	0.10	U	ng/L	P430843	MS
		Fipronil Sulfone	0.10	U	ng/L	P430843	
		Fluazifop-P-butyl	0.10	U	ng/L	P430843	
		Fludioxonil	0.10	U	ng/L	P430843	
		Flumioxazin	3.1	U	ng/L	P430843	
		Flutolanil	1.2		ng/L	P430843	RPD
		Fluxapyroxad	8.5		ng/L	P430843	
		Fonofos	0.15	U	ng/L	P430843	
		Hexazinone	0.51	U	ng/L	P430843	
		Imazalil	0.66	U	ng/L	P430843	
		Iprodione	2.1	I	ng/L	P430843	
		Loratadine**	0.31	U	ng/L	P430843	
		Malathion	0.36	U	ng/L	P430843	

Field ID: G4SE0142 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2414614	EPA 8270E	Metalaxyl	0.51	U	ng/L	P430843	
		Metolachlor	34		ng/L	P430843	
		Metribuzin	0.41	U	ng/L	P430843	
		Mevinphos	1.0	U	ng/L	P430843	
		Molinate	0.26	U	ng/L	P430843	
		Myclobutanil	0.36	U	ng/L	P430843	
		Naled	2.6	U	ng/L	P430843	
		Napropamide	0.71	U	ng/L	P430843	
		Norflurazon	1.0	U	ng/L	P430843	
		Oxadiazon	0.36	U	ng/L	P430843	
		Oxyfluorfen	0.20	U	ng/L	P430843	
		Parathion Ethyl	0.15	U	ng/L	P430843	
		Parathion Methyl	0.20	U	ng/L	P430843	
		Pendimethalin	0.77	U	ng/L	P430843	
		Phenytoin**	5.4	U	ng/L	P430843	
		Phorate	0.26	U	ng/L	P430843	
		Prodiamine	0.20	U	ng/L	P430843	
		Prometon	3.1	U	ng/L	P430843	
		Prometryn	1.3	I	ng/L	P430843	MS
		Pronamide	10		ng/L	P430843	
		Propanil	0.10	U	ng/L	P430843	
		Propargite	0.82	U	ng/L	P430843	
		Propiconazole	0.61	U	ng/L	P430843	
		Pyraflufen Ethyl	0.31	U	ng/L	P430843	
		Pyridaben	1.4	U	ng/L	P430843	
		Pyriproxyfen	0.26	U	ng/L	P430843	
		Simazine	28		ng/L	P430843	
		Stirophos	0.41	U	ng/L	P430843	
		Sulfentrazone	21		ng/L	P430843	
		Tebuconazole	1.4	U	ng/L	P430843	
		Terbufos	0.20	U	ng/L	P430843	
		Terbuthylazine	0.20	U	ng/L	P430843	
		Thiobencarb	0.51	U	ng/L	P430843	
		Triadimefon	0.15	U	ng/L	P430843	

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

Sample Location: STARVATION SLOUGH AT PUBLIC USE TRAIL Collection Date/Time: 06/05/2023 11:10

Field ID: G4SE0144 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2414597	DEP SOP: NU-094-1	Color (true)	220	A	PCU	P430878	
	EPA 180.1 Rev. 2.0	Turbidity	30		NTU	P430867	
	EPA 300.0 Rev. 2.1	Chloride	23		mg Cl/L	P430961	
		Sulfate	16		mg SO4/L	P430965	
	SM 2320 B-2011	Total Alkalinity	42		mg CaCO3/L	P431144	
	SM 2540 C-2015	TDS	187		mg/L	P431306	
	SM 2540 D-2015	TSS	30		mg/L	P431089	
	SM 4500-F- C-2011	Fluoride	0.049	I	mg F/L	P431429	
2414598	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P430925	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.2		mg N/L	P430879	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P431131	
	EPA 365.1 Rev. 2.0	Total-P	0.18		mg P/L	P430891	
	SM 5310 B-2011	Organic Carbon	30		mg C/L	P430957	
2414619	EPA 200.7 Rev. 4.4	Calcium	23.1		mg/L	P430918	
		Iron	1.35E+03		ug/L	P430918	
		Magnesium	3.10		mg/L	P430918	
		Potassium	4.4		mg/L	P430918	
		Sodium	12.4		mg/L	P430918	
		Strontium	145		ug/L	P430918	
		Tin	3.0	U	ug/L	P430918	
		Titanium	1.2	I	ug/L	P430918	
		Vanadium	2.0	U	ug/L	P430918	
	EPA 200.8 Rev. 5.4	Aluminum	266		ug/L	P430918	
		Antimony	0.13	I	ug/L	P430918	
		Arsenic	2.12		ug/L	P430918	
		Barium	12.7		ug/L	P430918	
		Beryllium	0.019	I	ug/L	P430918	
		Boron	35.6		ug/L	P430918	
		Cadmium	0.020	U	ug/L	P430918	
		Chromium	0.93	I	ug/L	P430918	
		Cobalt	0.271		ug/L	P430918	
		Copper	1.93		ug/L	P430918	
		Lead	0.23	I	ug/L	P430918	
		Manganese	45.8		ug/L	P430918	
		Molybdenum	1.41		ug/L	P430918	
		Nickel	0.61	I	ug/L	P430918	
		Selenium	0.20	U	ug/L	P430918	
		Silver	0.010	U	ug/L	P430918	
		Thallium	0.10	U	ug/L	P430918	
		Zinc	17	I	ug/L	P430918	
	SM 2340 B-2011	Hardness	70.4		mg/L	P430918	

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

Sample Location: OAK CREEK AT 68 **Collection Date/Time: 06/05/2023 11:30**

Field ID: G4SE0080 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2414611	EPA 8321B	Aldicarb	0.020	U	ug/L	P430798	
		Aldicarb Sulfone	0.0020	U	ug/L	P430798	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P430798	MS
		Carbaryl	0.0020	U	ug/L	P430798	
		Carbofuran	0.0020	U	ug/L	P430798	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P430798	
		Methiocarb	0.0020	U	ug/L	P430798	
		Methomyl	0.0020	U	ug/L	P430798	
		Oxamyl	0.0020	U	ug/L	P430798	
		Propoxur	0.0020	U	ug/L	P430798	
2414612		2,4-D	0.0020	U	ug/L	P430834	
		Acesulfame K	0.10	U	ug/L	P430789	
		2,4,5-T	0.0040	U	ug/L	P430834	
		AMPA	0.10	U	ug/L	P430789	
		Acetaminophen	0.0080	U	ug/L	P430834	
		Acetamiprid	0.0020	U	ug/L	P430834	
		Endothall	0.25	U	ug/L	P430789	
		Glufosinate	0.10	U	ug/L	P430789	
		Glyphosate	0.37	I	ug/L	P430789	
		Afidopyropen	0.0020	U	ug/L	P430834	
		Bentazon	8.0E-04	U	ug/L	P430834	
		Sucralose	0.010	U	ug/L	P430789	
		Benzovindiflupyr	0.0020	U	ug/L	P430834	
		Carbamazepine	8.0E-04	U	ug/L	P430834	
		Clothianidin	0.0020	U	ug/L	P430834	
		Dinotefuran	0.0020	U	ug/L	P430834	
		Diuron	0.0020	U	ug/L	P430834	
		Fenuron	0.032	U	ug/L	P430834	
		Fluridone	8.0E-04	U	ug/L	P430834	
		Imazapyr	0.0049	I	ug/L	P430834	
		Hydrocodone	0.0020	U	ug/L	P430834	
		Ibuprofen	0.080	U	ug/L	P430834	
		Imidacloprid	0.0020	U	ug/L	P430834	
		Linuron	0.0040	U	ug/L	P430834	
		Mandestrobin	0.0020	U	ug/L	P430834	
		MCPP	0.0020	U	ug/L	P430834	
		Naproxen	0.0080	U	ug/L	P430834	
		Primidone	0.0040	U	ug/L	P430834	
		Pyraclostrobin	0.0020	U	ug/L	P430834	
		Silvex	0.0040	U	ug/L	P430834	
		Thiamethoxam	0.0020	U	ug/L	P430834	
		Tolfenpyrad	0.0020	U	ug/L	P430834	
		Triclopyr	0.0040	U	ug/L	P430834	
2414615	EPA 8270E	Aldrin	0.67	U	ng/L	P430905	

Field ID: G4SE0080 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2414615	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P430905	
		Alpha-Chlordane	0.20	U	ng/L	P430905	
		PCB-1016	2.0	U	ng/L	P430905	
		Beta-BHC	0.10	U	ng/L	P430905	
		PCB-1221	2.0	U	ng/L	P430905	
		Beta-Cyfluthrin	1.3	U	ng/L	P430905	
		PCB-1232	2.0	U	ng/L	P430905	
		Bifenthrin	0.51	U	ng/L	P430905	
		PCB-1242	2.0	U	ng/L	P430905	
		PCB-1248	2.0	U	ng/L	P430905	
		Chlorothalonil	3.7	U	ng/L	P430905	
		PCB-1254	2.0	U	ng/L	P430905	
		Cis-Nonachlor	0.20	U	ng/L	P430905	
		PCB-1260	2.0	U	ng/L	P430905	
		Cypermethrin	1.5	U	ng/L	P430905	
		Dacthal	0.15	U	ng/L	P430905	
		DDD-p,p'	0.26	U	ng/L	P430905	
		DDE-p,p'	0.20	U	ng/L	P430905	
		DDT-p,p'	0.26	U	ng/L	P430905	
		Delta-BHC	0.41	U	ng/L	P430905	
		Deltamethrin	1.3	U	ng/L	P430905	
		Dichlobenil	0.26	U	ng/L	P430905	
		Dicofol	1.3	U	ng/L	P430905	
		Dieldrin	0.41	U	ng/L	P430905	
		Endosulfan I	0.41	U	ng/L	P430905	
		Endosulfan II	0.41	U	ng/L	P430905	
		Endosulfan Sulfate	0.31	U	ng/L	P430905	
		Endrin	0.41	U	ng/L	P430905	
		Endrin Aldehyde	0.77	U	ng/L	P430905	
		Endrin Ketone	0.41	U	ng/L	P430905	
		Esfenvalerate	0.77	U	ng/L	P430905	
		Ethalfluralin	0.15	U	ng/L	P430905	
		Fenpropathrin	0.26	UJ	ng/L	P430905	CCV, RPD
		Gamma-BHC	0.13	U	ng/L	P430905	
		Gamma-Chlordane	0.20	U	ng/L	P430905	
		Heptachlor	0.20	U	ng/L	P430905	
		Heptachlor Epoxide	0.26	U	ng/L	P430905	
		Hexachlorobenzene**	1.0	U	ng/L	P430905	
		Kepone	5.1	UJ	ng/L	P430905	CCV
		Lambda-Cyhalothrin	0.77	U	ng/L	P430905	
		Methoprene	0.77	U	ng/L	P430905	
		Methoxychlor	0.31	U	ng/L	P430905	
		MGK-264	0.20	U	ng/L	P430905	
		Mirex	0.36	U	ng/L	P430905	
		Oxychlordane	0.31	U	ng/L	P430905	

Field ID: G4SE0080 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2414615	EPA 8270E	Permethrin	1.6	U	ng/L	P430905	
		Phenothrin	0.92	U	ng/L	P430905	RPD
		Piperonyl Butoxide	0.38	I	ng/L	P430905	
		Prallethrin	2.0	U	ng/L	P430905	
		Tau-Fluvalinate	0.26	U	ng/L	P430905	
		Tetramethrin	0.77	U	ng/L	P430905	
		Trans-Nonachlor	0.20	U	ng/L	P430905	
		Triclosan Methyl	0.15	U	ng/L	P430905	
		Trifluralin	0.20	U	ng/L	P430905	
	EPA 8276	Chlordane	2.0	U	ng/L	P430905	
		Toxaphene	15	U	ng/L	P430905	
2414616	EPA 8270E	Oxybenzone**	10	U	ng/L	P430843	MS
		Acetochlor	0.21	U	ng/L	P430843	
		Octinoxate**	21	U	ng/L	P430843	
		Alachlor	0.41	U	ng/L	P430843	
		Avobenzone**	100	U	ng/L	P430843	MS
		Ametryn	1.1	U	ng/L	P430843	
		Atrazine	2.1		ng/L	P430843	
		PBDE-47**	4.1	U	ng/L	P430843	
		Atrazine Desethyl	1.3	U	ng/L	P430843	
		PBDE-99**	5.1	U	ng/L	P430843	
		Azinphos Methyl	3.1	U	ng/L	P430843	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P430843	MS
		Azoxystrobin	0.41	U	ng/L	P430843	
		Bromacil	0.62	U	ng/L	P430843	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P430843	
		Butylate	0.21	U	ng/L	P430843	
		Dechlorane Plus**	31	U	ng/L	P430843	
		Caffeine**	24	I	ng/L	P430843	
		Dechlorane 602**	5.1	U	ng/L	P430843	
		Carbophenothion	0.51	U	ng/L	P430843	
		Dechlorane 603**	4.1	U	ng/L	P430843	MS
		Carfentrazone Ethyl	0.15	U	ng/L	P430843	
		Hexabromobenzene**	6.2	U	ng/L	P430843	
		Chlorfenapyr	0.31	U	ng/L	P430843	
		PBB-153**	8.2	U	ng/L	P430843	MS
		Chlorpyrifos Ethyl	0.31	U	ng/L	P430843	
		Pentabromotoluene**	3.1	U	ng/L	P430843	
		Chlorpyrifos Methyl	0.10	U	ng/L	P430843	
		Tris(2-chloroethyl) phosphate (TCEP)**	72	U	ng/L	P430843	
		Coumaphos	1.1	U	ng/L	P430843	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	15	U	ng/L	P430843	
		Cyanazine	5.1	U	ng/L	P430843	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	4.1	I	ng/L	P430843	

Field ID: G4SE0080 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2414616	EPA 8270E	Cyprodinil	0.21	U	ng/L	P430843	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P430843	MS
		Demeton	3.6	U	ng/L	P430843	
		Diazinon	0.13	U	ng/L	P430843	
		Difenoconazole	0.62	U	ng/L	P430843	
		Dimethenamid	0.10	U	ng/L	P430843	MS
		Dimethomorph	0.31	U	ng/L	P430843	
		Disulfoton	0.62	U	ng/L	P430843	
		Dithiopyr	1.0	U	ng/L	P430843	
		EPTC	0.51	U	ng/L	P430843	
		Ethion	0.31	U	ng/L	P430843	
		Ethoprop	0.13	U	ng/L	P430843	
		Etridiazole	0.10	U	ng/L	P430843	
		Fenamiphos	0.46	U	ng/L	P430843	
		Fenbuconazole	0.51	U	ng/L	P430843	
		Fipronil	0.21	U	ng/L	P430843	
		Fipronil Desulfinyl**	0.12	I	ng/L	P430843	
		Fipronil Sulfide	0.10	U	ng/L	P430843	MS
		Fipronil Sulfone	0.10	U	ng/L	P430843	
		Fluazifop-P-butyl	0.10	U	ng/L	P430843	
		Fludioxonil	0.10	U	ng/L	P430843	
		Flumioxazin	3.1	U	ng/L	P430843	
		Flutolanil	0.10	U	ng/L	P430843	RPD
		Fluxapyroxad	0.26	U	ng/L	P430843	
		Fonofos	0.15	U	ng/L	P430843	
		Hexazinone	7.3		ng/L	P430843	
		Imazalil	0.67	U	ng/L	P430843	
		Iprodione	0.51	U	ng/L	P430843	
		Loratadine**	0.31	U	ng/L	P430843	
		Malathion	0.36	U	ng/L	P430843	
		Metalaxyl	0.51	U	ng/L	P430843	
		Metolachlor	2.1	I	ng/L	P430843	
		Metribuzin	0.41	U	ng/L	P430843	
		Mevinphos	1.0	U	ng/L	P430843	
		Molinate	0.26	U	ng/L	P430843	
		Myclobutanil	0.36	U	ng/L	P430843	
		Naled	2.6	U	ng/L	P430843	
		Napropamide	0.72	U	ng/L	P430843	
		Norflurazon	1.0	U	ng/L	P430843	
		Oxadiazon	0.36	U	ng/L	P430843	
		Oxyfluorfen	0.21	U	ng/L	P430843	
		Parathion Ethyl	0.15	U	ng/L	P430843	
		Parathion Methyl	0.21	U	ng/L	P430843	
		Pendimethalin	0.77	U	ng/L	P430843	
		Phenytoin**	5.4	U	ng/L	P430843	

Field ID: G4SE0080 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2414616	EPA 8270E	Phorate	0.26	U	ng/L	P430843	
		Prodiamine	0.21	U	ng/L	P430843	
		Prometon	3.1	U	ng/L	P430843	
		Prometryn	0.36	U	ng/L	P430843	MS
		Pronamide	0.10	U	ng/L	P430843	
		Propanil	0.10	U	ng/L	P430843	
		Propargite	0.82	U	ng/L	P430843	
		Propiconazole	0.62	U	ng/L	P430843	
		Pyraflufen Ethyl	0.31	U	ng/L	P430843	
		Pyridaben	1.4	U	ng/L	P430843	
		Pyriproxyfen	0.26	U	ng/L	P430843	
		Simazine	0.26	U	ng/L	P430843	
		Stirophos	0.41	U	ng/L	P430843	
		Sulfentrazone	1.4	U	ng/L	P430843	
		Tebuconazole	1.4	U	ng/L	P430843	
		Terbufos	0.21	U	ng/L	P430843	
		Terbuthylazine	0.21	U	ng/L	P430843	
		Thiobencarb	0.51	U	ng/L	P430843	
		Triadimefon	0.15	U	ng/L	P430843	

Ref. Method and Comment:
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked.

Sample Location: SEVENMILE SLOUGH AT PEAVINE TRAIL **Collection Date/Time: 06/05/2023 12:45**

Field ID: G4SE0153 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2414599	DEP SOP: NU-094-1	Color (true)	330		PCU	P430871	
	EPA 180.1 Rev. 2.0	Turbidity	1.7		NTU	P430867	
	EPA 300.0 Rev. 2.1	Chloride	7.6		mg Cl/L	P430961	
		Sulfate	0.31	I	mg SO4/L	P430965	
	SM 2320 B-2011	Total Alkalinity	5.5		mg CaCO3/L	P431144	
	SM 2540 C-2015	TDS	77		mg/L	P431306	
	SM 2540 D-2015	TSS	2	I	mg/L	P431089	
	SM 4500-F- C-2011	Fluoride	0.026	I	mg F/L	P431429	
2414600	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P430926	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P430880	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P431131	
	EPA 365.1 Rev. 2.0	Total-P	0.026		mg P/L	P430891	
	SM 5310 B-2011	Organic Carbon	24		mg C/L	P431040	

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

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P430871

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P430878

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P430867

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P430918

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

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P430918

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Barium	0.20	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L
Zinc	7.0	U	ug/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430961

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430965

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430925

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430926

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430879

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430880

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431131

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430887

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430891

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P430843

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P430843

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P430843

Component	Result	Code	Units
Metalaxyl	0.50	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	8.0	U	ng/L
PBB-153	8.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	0.75	U	ng/L
Pendimethalin	0.75	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Pronamide	0.10	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P430843

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

Reference Method: EPA 8270E
Batch ID: P430905

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P430905

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P430905

Component	Result	Code	Units
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8276
Batch ID: P430905

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

Reference Method: EPA 8321B
Batch ID: P430789

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L
Endothall	0.25	U	ug/L
Glufosinate	0.10	U	ug/L
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B
Batch ID: P430798

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: P430834

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P430834

Component	Result	Code	Units
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P431144

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

Reference Method: SM 2540 C-2015
Batch ID: P431306

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P431089

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P431429

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P430957

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

Reference Method: SM 5310 B-2011
Batch ID: P431040

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: P430871

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

Reference Method: DEP SOP: NU-094-1
Batch ID: P430878

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P430867

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P430918

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	98.0		P	85 - 115
Iron	101		P	85 - 115
Magnesium	99.4		P	85 - 115
Potassium	100		P	85 - 115
Sodium	99.0		P	85 - 115
Strontium	99.3		P	85 - 115
Tin	99.7		P	85 - 115
Titanium	100		P	85 - 115
Vanadium	98.3		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P430918

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	98.7		P	85 - 115
Antimony	103		P	85 - 115
Arsenic	102		P	85 - 115
Barium	104		P	85 - 115
Beryllium	96.9		P	85 - 115
Boron	97.4		P	85 - 115
Cadmium	99.5		P	85 - 115
Chromium	98.6		P	85 - 115
Cobalt	101		P	85 - 115
Copper	98.9		P	85 - 115
Lead	95.3		P	85 - 115
Manganese	97.5		P	85 - 115
Molybdenum	99.0		P	85 - 115
Nickel	99.6		P	85 - 115
Selenium	101		P	85 - 115
Silver	103		P	85 - 115
Thallium	98.5		P	85 - 115
Zinc	98.7		P	85 - 115

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430961

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430965

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	99.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430925

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430926

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430879

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430880

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	98.8		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431131

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: P430887

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430891

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P430843

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	121		P	42 - 162
Acetochlor	78.4		P	69 - 123
Alachlor	78.3		P	65 - 118
Ametryn	110		P	58 - 141
Atrazine	88.3		P	73 - 118
Atrazine Desethyl	87.5		P	32 - 125
Avobenzone	174		P	40 - 203
Azinphos Methyl	125		P	36 - 197
Azoxystrobin	96.8		P	58 - 226
Bromacil	95.2		P	48 - 120
Butylate	62.0		P	27 - 85.0
Caffeine	136		P	40 - 137
Carbophenothion	96.6		P	54 - 132
Carfentrazone Ethyl	112		P	60 - 142
Chlorfenapyr	78.5		P	53 - 117
Chlorpyrifos Ethyl	81.1		P	59 - 116
Chlorpyrifos Methyl	103		P	66 - 119
Coumaphos	132		P	11 - 234
Cyanazine	166		P	61 - 248
Cyprodinil	91.5		P	50 - 147
Dechlorane 602	114		P	50 - 150
Dechlorane 603	135		P	50 - 150
Dechlorane Plus	111		P	47 - 182
Demeton	76.5		P	30 - 138
Diazinon	97.2		P	67 - 126
Difenoconazole	135		P	38 - 205
Dimethenamid	95.6		P	57 - 111
Dimethomorph	99.0		P	16 - 212
Disulfoton	90.6		P	46 - 126
Dithiopyr	103		P	62 - 115
EPTC	60.4		P	28 - 80.0
Ethion	66.3		P	24 - 122
Ethoprop	89.3		P	62 - 113
Etridiazole	66.6		P	28 - 92.0
Fenamiphos	78.5		P	57 - 128
Fenbuconazole	87.7		P	52 - 155
Fipronil	99.5		P	63 - 130
Fipronil Desulfinyl	107		P	61 - 130
Fipronil Sulfide	109		P	56 - 117
Fipronil Sulfone	99.3		P	52 - 118
Fluazifop-P-butyl	89.3		P	61 - 128
Fludioxonil	103		P	59 - 129
Flumioxazin	138		P	30 - 250
Flutolanil	84.3		P	53 - 127
Fluxapyroxad	98.1		P	42 - 132
Fonofos	98.8		P	61 - 110
Hexabromobenzene	120		P	50 - 150
Hexazinone	91.9		P	46 - 139
Imazalil	93.6		P	40 - 139
Iprodione	96.0		P	40 - 146
Loratadine	145		P	10 - 224
Malathion	89.8		P	61 - 135

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P430843

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Metalaxyl	84.1		P	58 - 121
Metolachlor	97.8		P	64 - 118
Metribuzin	103		P	45 - 245
Mevinphos	84.9		P	49 - 118
Molinate	60.5		P	42 - 92.0
Myclobutanil	91.7		P	55 - 127
Naled	47.3		P	10 - 114
Napropamide	75.1		P	39 - 121
Norflurazon	89.2		P	55 - 129
Octinoxate	125		P	26 - 166
Oxadiazon	85.1		P	54 - 115
Oxybenzone	133		P	49 - 135
Oxyfluorfen	99.6		P	64 - 139
Parathion Ethyl	99.1		P	70 - 111
Parathion Methyl	96.3		P	76 - 136
PBB-153	136		P	50 - 150
PBDE-47	105		P	41 - 148
PBDE-99	105		P	38 - 147
Pendimethalin	69.2		P	52 - 118
Pentabromotoluene	114		P	50 - 150
Phenytoin	51.6		P	10 - 162
Phorate	98.6		P	40 - 122
Prodiamine	44.7		P	26 - 141
Prometon	99.0		P	54 - 122
Prometryn	109		P	61 - 128
Pronamide	106		P	72 - 121
Propanil	117		P	45 - 144
Propargite	69.1		P	10 - 199
Propiconazole	82.4		P	56 - 127
Pyraflufen Ethyl	86.5		P	56 - 140
Pyridaben	108		P	26 - 211
Pyriproxyfen	101		P	33 - 194
Simazine	89.5		P	67 - 121
Stirophos	70.8		P	20 - 142
Sulfentrazone	93.9		P	21 - 144
Tebuconazole	59.8		P	10 - 122
Terbufos	96.5		P	60 - 129
Terbuthylazine	85.8		P	69 - 113
Tetradecachloro-m-terphenyl	190		P	70 - 200
Thiobencarb	79.3		P	51 - 120
Tri-o-cresyl Phosphate	125		P	49 - 150
Triadimefon	93.4		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	115		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	113		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	122		P	70 - 180

Reference Method: EPA 8270E
Batch ID: P430905

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	35.2		P	10 - 92.0
Alpha-BHC	81.7		P	75 - 107

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P430905

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Alpha-Chlordane	66.1		P	50 - 108
Beta-BHC	73.4		P	36 - 138
Beta-Cyfluthrin	53.4		P	20 - 161
Bifenthrin	38.3		P	10 - 119
Chlorothalonil	44.8		P	26 - 186
Cis-Nonachlor	43.4		P	42 - 119
Cypermethrin	51.3		P	22 - 150
Dacthal	94.7		P	72 - 119
DDD-p,p'	78.3		P	45 - 107
DDE-p,p'	50.4		P	48 - 106
DDT-p,p'	59.3		P	48 - 110
Delta-BHC	86.7		P	54 - 140
Deltamethrin	51.8		P	22 - 189
Dichlobenil	85.6		P	36 - 117
Dicofol	58.3		P	46 - 155
Dieldrin	75.5		P	54 - 110
Endosulfan I	73.6		P	59 - 105
Endosulfan II	84.6		P	51 - 118
Endosulfan Sulfate	98.0		P	57 - 121
Endrin	81.3		P	10 - 120
Endrin Aldehyde	82.0		P	34 - 118
Endrin Ketone	74.1		P	69 - 177
Esfenvalerate	44.5		P	23 - 168
Ethalfluralin	64.5		P	49 - 99.0
Fenpropathrin	68.2		P	34 - 117
Gamma-BHC	86.8		P	72 - 117
Gamma-Chlordane	46.0		P	43 - 106
Heptachlor	60.2		P	41 - 98.0
Heptachlor Epoxide	71.1		P	57 - 106
Hexachlorobenzene	55.5		P	36 - 99.0
Kepone	175		P	16 - 215
Lambda-Cyhalothrin	42.2		P	21 - 177
Methoprene	33.3		P	10 - 119
Methoxychlor	61.4		P	60 - 112
MGK-264	56.2		P	26 - 122
Mirex	39.3		P	10 - 169
Oxychlordane	49.0		P	43 - 105
PCB-1016	61.7		P	48 - 112
PCB-1260	66.6		P	44 - 118
Permethrin	45.9		P	24 - 148
Phenothrin	34.9		P	10 - 106
Piperonyl Butoxide	83.9		P	10 - 139
Prallethrin	65.9		P	17 - 109
Tau-Fluvalinate	40.4		P	13 - 131
Tetramethrin	57.1		P	10 - 132
Trans-Nonachlor	63.2		P	44 - 106
Triclosan Methyl	74.5		P	59 - 109
Trifluralin	61.1		P	44 - 101

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P430905

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	84.3		P	61 - 116
Toxaphene	99.7		P	48 - 124

Reference Method: EPA 8321B
Batch ID: P430789

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	106		P	40 - 150
AMPA	79.3		P	40 - 150
Endothall	90.9		P	40 - 150
Glufosinate	84.0		P	40 - 150
Glyphosate	71.4		P	40 - 150
Sucralose	82.6		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P430798

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	79.8		P	40 - 150
Aldicarb	60.4		P	30 - 150
Aldicarb Sulfone	94.9		P	40 - 150
Aldicarb Sulfoxide	102		P	40 - 150
Carbaryl	70.4		P	40 - 150
Carbofuran	76.6		P	40 - 150
Methiocarb	79.1		P	40 - 150
Methomyl	73.8		P	40 - 150
Oxamyl	87.3		P	40 - 150
Propoxur	73.5		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P430834

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	109		P	40 - 150
2,4,5-T	96.0		P	40 - 150
Acetaminophen	89.9		P	30 - 150
Acetamiprid	79.5		P	40 - 150
Afidopyropen	73.4		P	30 - 150
Bentazon	99.3		P	30 - 150
Benzovindiflupyr	80.3		P	40 - 150
Carbamazepine	83.1		P	40 - 150
Clothianidin	88.3		P	40 - 150
Dinotefuran	90.4		P	40 - 150
Diuron	83.5		P	40 - 150
Fenuron	85.4		P	40 - 150
Fluridone	90.6		P	40 - 150
Hydrocodone	86.6		P	40 - 150
Ibuprofen	119		P	40 - 150
Imazapyr	95.6		P	40 - 150
Imidacloprid	85.0		P	40 - 150
Linuron	82.0		P	40 - 150
Mandestrobin	84.5		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P430834

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
MCPP	96.0		P	40 - 150
Naproxen	67.0		P	40 - 150
Primidone	81.5		P	40 - 150
Pyraclostrobin	77.8		P	40 - 150
Silvex	94.4		P	40 - 150
Thiamethoxam	84.7		P	40 - 150
Tolfenpyrad	58.4		P	30 - 150
Triclopyr	77.8		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P431144

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

Reference Method: SM 2540 C-2015
Batch ID: P431306

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	94.5		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P431089

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	95.9		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P431429

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.3		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P430957

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

Reference Method: SM 5310 B-2011
Batch ID: P431040

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.6		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P430918

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414505	Calcium	98.0	96.2	P/P	80 - 120
2414505	Iron	102	101	P/P	80 - 120
2414505	Magnesium	99.4	98.9	P/P	80 - 120
2414505	Potassium	101	98.8	P/P	80 - 120
2414505	Sodium	97.6		P	80 - 120
2414505	Strontium	98.9	99.0	P/P	80 - 120
2414505	Tin	99.8	99.9	P/P	80 - 120
2414505	Titanium	100	101	P/P	80 - 120
2414505	Vanadium	99.1	100	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P430918

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414505	Aluminum	97.9	98.2	P/P	80 - 120
2414505	Antimony	101	100	P/P	80 - 120
2414505	Arsenic	99.4	99.1	P/P	80 - 120
2414505	Barium	102	103	P/P	80 - 120
2414505	Beryllium	95.5	94.3	P/P	80 - 120
2414505	Boron	95.7	98.5	P/P	80 - 120
2414505	Cadmium	99.5	99.0	P/P	80 - 120
2414505	Chromium	98.0	98.3	P/P	80 - 120
2414505	Cobalt	98.3	98.8	P/P	80 - 120
2414505	Copper	97.1	97.2	P/P	80 - 120
2414505	Lead	94.7	95.0	P/P	80 - 120
2414505	Manganese	96.3	97.6	P/P	80 - 120
2414505	Molybdenum	99.5	99.6	P/P	80 - 120
2414505	Nickel	97.5	98.0	P/P	80 - 120
2414505	Selenium	98.0	98.2	P/P	80 - 120
2414505	Silver	100	101	P/P	80 - 120
2414505	Thallium	98.9	100	P/P	80 - 120
2414505	Zinc	97.7	98.3	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430961

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414487	Chloride	104		P	90 - 110
2414597	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430965

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414487	Sulfate	99.6		P	90 - 110
2414597	Sulfate	91.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430925

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414490	Ammonia-N	95.8	95.2	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430926

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414863	Ammonia-N	96.6	97.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430879

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414567	Kjeldahl Nitrogen	93.9	95.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430880

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414863	Kjeldahl Nitrogen	94.8	108	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431131

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414591	NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430887

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414567	Total-P	100	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430891

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2415738	Total-P	100	99.4	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P430843

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2415493	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	128	140	P/P	26 - 165
2415493	Acetochlor	86.1	91.5	P/P	67 - 124
2415493	Alachlor	78.8	88.7	P/P	60 - 120
2415493	Ametryn	114	127	P/P	54 - 216
2415493	Atrazine Desethyl	97.9	102	P/P	15 - 122
2415493	Avobenzone	167	193	P/F	37 - 178
2415493	Azinphos Methyl	134	132	P/P	40 - 292
2415493	Azoxystrobin	121	117	P/P	35 - 220
2415493	Bromacil	122	118	P/P	45 - 127
2415493	Butylate	68.0	72.3	P/P	20 - 83.0
2415493	Caffeine	143	142	P/P	10 - 194
2415493	Carbophenothion	104	111	P/P	57 - 127
2415493	Carfentrazone Ethyl	115	121	P/P	51 - 141
2415493	Chlorfenapyr	80.8	86.5	P/P	46 - 111
2415493	Chlorpyrifos Ethyl	95.7	94.4	P/P	52 - 120
2415493	Chlorpyrifos Methyl	110	113	P/P	63 - 119

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P430843

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2415493	Coumaphos	132	144	P/P	10 - 228
2415493	Cyanazine	178	188	P/P	59 - 241
2415493	Cyprodinil	101	114	P/P	47 - 146
2415493	Dechlorane 602	108	126	P/P	50 - 150
2415493	Dechlorane 603	148	161	P/F	50 - 150
2415493	Dechlorane Plus	106	116	P/P	50 - 150
2415493	Demeton	80.5	87.8	P/P	40 - 136
2415493	Diazinon	109	114	P/P	69 - 132
2415493	Difenoconazole	138	155	P/P	57 - 258
2415493	Dimethenamid	105	112	P/F	54 - 110
2415493	Dimethomorph	137	124	P/P	28 - 210
2415493	Disulfoton	98.4	105	P/P	43 - 133
2415493	Dithiopyr	112	116	P/P	39 - 116
2415493	EPTC	68.8	72.7	P/P	20 - 78.0
2415493	Ethion	67.3	77.2	P/P	17 - 119
2415493	Ethoprop	98.3	106	P/P	66 - 120
2415493	Etridiazole	70.7	78.3	P/P	28 - 96.0
2415493	Fenamiphos	94.2	99.0	P/P	41 - 126
2415493	Fenbuconazole	94.0	99.1	P/P	42 - 169
2415493	Fipronil	102	115	P/P	61 - 132
2415493	Fipronil Desulfinyl	114	119	P/P	56 - 132
2415493	Fipronil Sulfide	108	136	P/F	48 - 119
2415493	Fipronil Sulfone	107	123	P/P	42 - 131
2415493	Fluazifop-P-butyl	94.8	86.5	P/P	53 - 131
2415493	Fludioxonil	95.6	102	P/P	56 - 127
2415493	Flumioxazin	144	159	P/P	19 - 300
2415493	Flutolanil	74.5	119	P/P	41 - 127
2415493	Fluxapyroxad	92.0	106	P/P	42 - 172
2415493	Fonofos	112	112	P/P	59 - 113
2415493	Hexabromobenzene	140	146	P/P	50 - 150
2415493	Hexazinone	101	103	P/P	66 - 122
2415493	Imazalil	84.1	91.5	P/P	21 - 283
2415493	Iprodione	102	106	P/P	43 - 150
2415493	Loratadine	157	171	P/P	23 - 201
2415493	Malathion	96.7	106	P/P	58 - 136
2415493	Metalaxyl	90.8	99.6	P/P	55 - 120
2415493	Metolachlor	109	111	P/P	57 - 121
2415493	Metribuzin	107	114	P/P	58 - 294
2415493	Mevinphos	96.7	105	P/P	50 - 126
2415493	Molinate	70.5	72.4	P/P	42 - 93.0
2415493	Myclobutanil	98.6	105	P/P	55 - 125
2415493	Naled	54.9	61.7	P/P	18 - 200
2415493	Napropamide	72.3	85.4	P/P	39 - 110
2415493	Norflurazon	102	101	P/P	48 - 128
2415493	Octinoxate	134	140	P/P	21 - 159
2415493	Oxadiazon	91.2	93.9	P/P	43 - 112
2415493	Oxybenzone	136	146	P/F	41 - 142
2415493	Oxyfluorfen	101	112	P/P	64 - 153
2415493	Parathion Ethyl	101	102	P/P	69 - 114
2415493	Parathion Methyl	110	104	P/P	79 - 139
2415493	PBB-153	147	161	P/F	50 - 150
2415493	PBDE-47	108	121	P/P	27 - 144

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P430843

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2415493	PBDE-99	103	119	P/P	18 - 150
2415493	Pendimethalin	92.1	89.1	P/P	50 - 139
2415493	Pentabromotoluene	130	133	P/P	50 - 150
2415493	Phenytoin	60.4	62.9	P/P	10 - 146
2415493	Phorate	91.3	109	P/P	54 - 161
2415493	Prodiamine	49.8	51.3	P/P	30 - 161
2415493	Prometon	102	109	P/P	45 - 134
2415493	Prometryn	119	139	P/F	45 - 137
2415493	Pronamide	108	121	P/P	65 - 133
2415493	Propanil	126	142	P/P	49 - 142
2415493	Propargite	69.6	71.4	P/P	10 - 203
2415493	Propiconazole	91.7	86.9	P/P	38 - 146
2415493	Pyraflufen Ethyl	97.7	83.4	P/P	34 - 153
2415493	Pyridaben	130	142	P/P	12 - 192
2415493	Pyriproxyfen	98.6	115	P/P	33 - 180
2415493	Simazine	108	114	P/P	51 - 157
2415493	Stirophos	77.1	83.2	P/P	10 - 128
2415493	Sulfentrazone	104	114	P/P	53 - 186
2415493	Tebuconazole	63.9	65.0	P/P	10 - 133
2415493	Terbufos	103	107	P/P	65 - 139
2415493	Terbuthylazine	95.6	88.0	P/P	66 - 117
2415493	Tetradecachloro-m-terphenyl	221	234	F/F	70 - 200
2415493	Thiobencarb	91.2	100	P/P	51 - 119
2415493	Tri-o-cresyl Phosphate	134	145	P/F	31 - 144
2415493	Triadimefon	96.1	108	P/P	48 - 119
2415493	Tris(1-chloro-2-propyl) phosphate (TCPP)	106	107	P/P	50 - 150
2415493	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	121	131	P/P	50 - 150
2415493	Tris(2-chloroethyl) phosphate (TCEP)	127	139	P/P	70 - 180

Reference Method: EPA 8270E
Batch ID: P430905

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2415612	Aldrin	49.9	42.6	P/P	20 - 82.0
2415612	Alpha-BHC	82.2	83.0	P/P	71 - 109
2415612	Alpha-Chlordane	93.6	78.3	P/P	42 - 106
2415612	Beta-BHC	71.7	88.8	P/P	69 - 180
2415612	Beta-Cyfluthrin	67.7	54.2	P/P	18 - 175
2415612	Bifenthrin	48.2	55.6	P/P	21 - 128
2415612	Chlorothalonil	77.0	71.0	P/P	10 - 300
2415612	Cis-Nonachlor	44.9	35.3	P/P	34 - 106
2415612	Cypermethrin	62.8	49.4	P/P	22 - 158
2415612	Dacthal	114	99.7	P/P	54 - 116
2415612	DDD-p,p'	101	86.1	P/P	34 - 107
2415612	DDE-p,p'	54.3	54.3	P/P	33 - 110
2415612	DDT-p,p'	59.8	56.5	P/P	50 - 122
2415612	Delta-BHC	128	109	P/P	77 - 193
2415612	Deltamethrin	73.0	54.3	P/P	10 - 195
2415612	Dichlobenil	75.5	68.5	P/P	25 - 113
2415612	Dicofol	65.0	54.5	P/P	38 - 247
2415612	Dieldrin	98.3	77.6	P/P	45 - 118
2415612	Endosulfan I	103	83.6	P/P	51 - 106

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P430905

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2415612	Endosulfan II	117	90.2	P/P	37 - 122
2415612	Endosulfan Sulfate	113	92.1	P/P	43 - 132
2415612	Endrin	101	75.7	P/P	29 - 101
2415612	Endrin Aldehyde	75.6	74.4	P/P	19 - 110
2415612	Endrin Ketone	71.0	75.2	P/P	60 - 140
2415612	Esfenvalerate	65.3	55.9	P/P	26 - 199
2415612	Ethalfluralin	70.2	63.2	P/P	45 - 99.0
2415612	Fenpropathrin	92.9	63.5	P/P	35 - 120
2415612	Gamma-BHC	97.3	93.1	P/P	63 - 128
2415612	Gamma-Chlordane	53.2	56.9	P/P	40 - 104
2415612	Heptachlor	80.8	66.2	P/P	36 - 97.0
2415612	Heptachlor Epoxide	75.1	66.6	P/P	49 - 184
2415612	Hexachlorobenzene	67.1	61.2	P/P	39 - 96.0
2415612	Kepone	185	119	P/P	10 - 217
2415612	Lambda-Cyhalothrin	51.3	49.1	P/P	21 - 193
2415612	Methoprene	46.5	50.1	P/P	20 - 106
2415612	Methoxychlor	63.4	53.4	P/P	53 - 118
2415612	MGK-264	62.6	64.5	P/P	40 - 118
2415612	Mirex	44.8	39.0	P/P	26 - 92.0
2415612	Oxychlordane	63.9	53.9	P/P	44 - 99.0
2415612	Permethrin	55.8	81.8	P/P	33 - 182
2415612	Phenothrin	42.1	84.4	P/P	10 - 129
2415612	Piperonyl Butoxide	92.2	91.9	P/P	10 - 211
2415612	Prallethrin	75.9	68.7	P/P	24 - 113
2415612	Tau-Fluvalinate	57.0	41.1	P/P	14 - 149
2415612	Tetramethrin	67.8	70.6	P/P	17 - 151
2415612	Trans-Nonachlor	67.5	59.8	P/P	42 - 102
2415612	Triclosan Methyl	99.0	75.2	P/P	48 - 108
2415612	Trifluralin	64.6	59.5	P/P	47 - 96.0
2415681	PCB-1016	76.0	58.9	P/P	46 - 111
2415681	PCB-1260	62.3	65.1	P/P	45 - 114

Reference Method: EPA 8276
Batch ID: P430905

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2415681	Chlordane	99.7	104	P/P	53 - 126
2415681	Toxaphene	127	119	P/P	56 - 211

Reference Method: EPA 8321B
Batch ID: P430789

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413933	Acesulfame K	102	101	P/P	40 - 150
2413933	AMPA	101	96.7	P/P	40 - 150
2413933	Endothall	86.9	82.6	P/P	40 - 150
2413933	Glufosinate	80.1	78.3	P/P	40 - 150
2413933	Glyphosate	60.2	59.5	P/P	40 - 150
2413933	Sucralose	90.3	90.6	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P430798

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413797	3-Hydroxycarbofuran	86.9	86.3	P/P	40 - 150
2413797	Aldicarb	57.9	63.4	P/P	30 - 150
2413797	Aldicarb Sulfone	84.6	84.4	P/P	40 - 150
2413797	Aldicarb Sulfoxide	35.8	37.4	F/F	40 - 150
2413797	Carbaryl	74.1	65.1	P/P	40 - 150
2413797	Carbofuran	57.1	58.5	P/P	40 - 150
2413797	Methiocarb	69.2	67.5	P/P	40 - 150
2413797	Methomyl	59.7	59.4	P/P	40 - 150
2413797	Oxamyl	72.5	72.9	P/P	40 - 150
2413797	Propoxur	56.3	57.1	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P430834

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414406	2,4-D	104	112	P/P	40 - 150
2414406	2,4,5-T	133	103	P/P	40 - 150
2414406	Acetaminophen	90.6	98.4	P/P	30 - 150
2414406	Acetamiprid	76.5	77.5	P/P	40 - 150
2414406	Afidopyropen	69.3	62.1	P/P	30 - 150
2414406	Bentazon	83.4	87.1	P/P	30 - 150
2414406	Benzovindiflupyr	80.9	91.4	P/P	40 - 150
2414406	Carbamazepine	86.0	89.9	P/P	40 - 150
2414406	Clothianidin	101	108	P/P	40 - 150
2414406	Dinotefuran	95.0	99.8	P/P	40 - 150
2414406	Diuron	78.5	89.1	P/P	40 - 150
2414406	Fenuron	79.2	85.8	P/P	40 - 150
2414406	Fluridone	89.9	92.6	P/P	40 - 150
2414406	Hydrocodone	86.9	93.8	P/P	40 - 150
2414406	Ibuprofen	112	128	P/P	40 - 150
2414406	Imazapyr	94.4	98.4	P/P	40 - 150
2414406	Imidacloprid	103	114	P/P	40 - 150
2414406	Linuron	81.2	82.7	P/P	40 - 150
2414406	Mandestrobin	88.6	87.4	P/P	40 - 150
2414406	MCPP	96.8	103	P/P	40 - 150
2414406	Naproxen	51.9	54.2	P/P	40 - 150
2414406	Primidone	80.3	84.0	P/P	40 - 150
2414406	Pyraclostrobin	81.1	84.2	P/P	40 - 150
2414406	Silvex	90.2	90.9	P/P	40 - 150
2414406	Thiamethoxam	100	103	P/P	40 - 150
2414406	Tolfenpyrad	52.7	59.7	P/P	30 - 150
2414406	Triclopyr	83.5	103	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P431429

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414566	Fluoride	103	103	P/P	94 - 106

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P430957

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414396	Organic Carbon	95.6	97.2	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P431040

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414863	Organic Carbon	96.2	98.2	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P430871

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414488	Color (true)	2.12	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P430878

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414597	Color (true)	3.69	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P430867

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414487	Turbidity	0.683	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P430918

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414505	Calcium	0.900	Spike	P	0 - 20
2414505	Iron	0.659	Spike	P	0 - 20
2414505	Magnesium	0.349	Spike	P	0 - 20
2414505	Potassium	1.35	Spike	P	0 - 20
2414505	Sodium	0.552	Spike	P	0 - 20
2414505	Strontium	0.0427	Spike	P	0 - 20
2414505	Tin	0.166	Spike	P	0 - 20
2414505	Titanium	1.13	Spike	P	0 - 20
2414505	Vanadium	1.34	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P430918

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414505	Aluminum	0.225	Spike	P	0 - 20
2414505	Antimony	0.499	Spike	P	0 - 20
2414505	Arsenic	0.283	Spike	P	0 - 20
2414505	Barium	0.202	Spike	P	0 - 20
2414505	Beryllium	1.20	Spike	P	0 - 20
2414505	Boron	2.40	Spike	P	0 - 20
2414505	Cadmium	0.549	Spike	P	0 - 20
2414505	Chromium	0.288	Spike	P	0 - 20
2414505	Cobalt	0.592	Spike	P	0 - 20
2414505	Copper	0.171	Spike	P	0 - 20
2414505	Lead	0.372	Spike	P	0 - 20
2414505	Manganese	1.04	Spike	P	0 - 20
2414505	Molybdenum	0.151	Spike	P	0 - 20
2414505	Nickel	0.424	Spike	P	0 - 20
2414505	Selenium	0.174	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P430918

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414505	Silver	0.785	Spike	P	0 - 20
2414505	Thallium	1.21	Spike	P	0 - 20
2414505	Zinc	0.600	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430961

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414487	Chloride	2.24	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430965

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414487	Sulfate	1.89	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430925

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414490	Ammonia-N	0.580	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430926

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414863	Ammonia-N	0.907	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430879

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414567	Kjeldahl Nitrogen	1.17	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430880

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414863	Kjeldahl Nitrogen	7.57	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431131

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

Quality Assurance Report
Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431131

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414591	NO2NO3-N	0.319	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430887

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414567	Total-P	1.73	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430891

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2415738	Total-P	0.627	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P430843

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2415493	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	9.17	Spike	P	0 - 37
2415493	Acetochlor	5.99	Spike	P	0 - 28
2415493	Alachlor	11.7	Spike	P	0 - 30
2415493	Ametryn	10.8	Spike	P	0 - 32
2415493	Atrazine	0.711	Spike	P	0 - 41
2415493	Atrazine Desethyl	3.11	Spike	P	0 - 36
2415493	Avobenzone	14.0	Spike	P	0 - 36
2415493	Azinphos Methyl	1.62	Spike	P	0 - 75
2415493	Azoxystrobin	3.86	Spike	P	0 - 39
2415493	Bromacil	3.27	Spike	P	0 - 33
2415493	Butylate	6.19	Spike	P	0 - 44
2415493	Caffeine	1.06	Spike	P	0 - 74
2415493	Carbophenothion	6.11	Spike	P	0 - 25
2415493	Carfentrazone Ethyl	5.04	Spike	P	0 - 27
2415493	Chlorfenapyr	6.86	Spike	P	0 - 24
2415493	Chlorpyrifos Ethyl	1.41	Spike	P	0 - 26
2415493	Chlorpyrifos Methyl	2.47	Spike	P	0 - 26
2415493	Coumaphos	8.28	Spike	P	0 - 28
2415493	Cyanazine	5.47	Spike	P	0 - 48
2415493	Cyprodinil	12.4	Spike	P	0 - 29
2415493	Dechlorane 602	15.6	Spike	P	0 - 30
2415493	Dechlorane 603	8.35	Spike	P	0 - 30
2415493	Dechlorane Plus	8.99	Spike	P	0 - 30
2415493	Demeton	8.62	Spike	P	0 - 33
2415493	Diazinon	5.34	Spike	P	0 - 29
2415493	Difenoconazole	11.5	Spike	P	0 - 34
2415493	Dimethenamid	6.09	Spike	P	0 - 39
2415493	Dimethomorph	9.40	Spike	P	0 - 51
2415493	Disulfoton	6.37	Spike	P	0 - 30
2415493	Dithiopyr	3.21	Spike	P	0 - 26

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P430843

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2415493	EPTC	5.52	Spike	P	0 - 43
2415493	Ethion	13.7	Spike	P	0 - 79
2415493	Ethoprop	8.01	Spike	P	0 - 29
2415493	Etridiazole	10.2	Spike	P	0 - 33
2415493	Fenamiphos	4.95	Spike	P	0 - 40
2415493	Fenbuconazole	5.32	Spike	P	0 - 74
2415493	Fipronil	7.93	Spike	P	0 - 29
2415493	Fipronil Desulfinyl	3.53	Spike	P	0 - 32
2415493	Fipronil Sulfide	8.71	Spike	P	0 - 30
2415493	Fipronil Sulfone	4.12	Spike	P	0 - 33
2415493	Fluazifop-P-butyl	9.14	Spike	P	0 - 38
2415493	Fludioxonil	6.72	Spike	P	0 - 29
2415493	Flumioxazin	9.80	Spike	P	0 - 51
2415493	Flutolanil	46.2	Spike	F	0 - 25
2415493	Fluxapyroxad	14.4	Spike	P	0 - 45
2415493	Fonofos	0.170	Spike	P	0 - 27
2415493	Hexabromobenzene	4.10	Spike	P	0 - 30
2415493	Hexazinone	1.56	Spike	P	0 - 30
2415493	Imazalil	8.48	Spike	P	0 - 100
2415493	Iprodione	3.49	Spike	P	0 - 33
2415493	Loratadine	8.27	Spike	P	0 - 56
2415493	Malathion	9.08	Spike	P	0 - 37
2415493	Metalaxyl	9.20	Spike	P	0 - 40
2415493	Metolachlor	2.34	Spike	P	0 - 29
2415493	Metribuzin	6.30	Spike	P	0 - 45
2415493	Mevinphos	7.97	Spike	P	0 - 29
2415493	Molinate	2.75	Spike	P	0 - 33
2415493	Myclobutanil	6.11	Spike	P	0 - 26
2415493	Naled	11.6	Spike	P	0 - 37
2415493	Napropamide	16.6	Spike	P	0 - 44
2415493	Norflurazon	0.901	Spike	P	0 - 30
2415493	Octinoxate	4.48	Spike	P	0 - 45
2415493	Oxadiazon	3.00	Spike	P	0 - 28
2415493	Oxybenzone	6.80	Spike	P	0 - 46
2415493	Oxyfluorfen	9.91	Spike	P	0 - 28
2415493	Parathion Ethyl	0.810	Spike	P	0 - 31
2415493	Parathion Methyl	5.56	Spike	P	0 - 29
2415493	PBB-153	9.21	Spike	P	0 - 30
2415493	PBDE-47	11.7	Spike	P	0 - 36
2415493	PBDE-99	13.8	Spike	P	0 - 40
2415493	Pendimethalin	3.33	Spike	P	0 - 33
2415493	Pentabromotoluene	2.68	Spike	P	0 - 30
2415493	Phenytoin	4.00	Spike	P	0 - 100
2415493	Phorate	17.5	Spike	P	0 - 36
2415493	Prodiamine	2.87	Spike	P	0 - 71
2415493	Prometon	4.77	Spike	P	0 - 36
2415493	Prometryn	15.3	Spike	P	0 - 28
2415493	Pronamide	11.5	Spike	P	0 - 24
2415493	Propanil	11.4	Spike	P	0 - 28
2415493	Propargite	2.54	Spike	P	0 - 43
2415493	Propiconazole	3.28	Spike	P	0 - 33

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P430843

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2415493	Pyraflufen Ethyl	15.8	Spike	P	0 - 29
2415493	Pyridaben	8.92	Spike	P	0 - 30
2415493	Pyriproxyfen	15.6	Spike	P	0 - 79
2415493	Simazine	5.35	Spike	P	0 - 29
2415493	Stirophos	7.66	Spike	P	0 - 61
2415493	Sulfentrazone	6.90	Spike	P	0 - 33
2415493	Tebuconazole	1.84	Spike	P	0 - 69
2415493	Terbufos	3.93	Spike	P	0 - 29
2415493	Terbuthylazine	8.21	Spike	P	0 - 32
2415493	Tetradecachloro-m-terphenyl	5.36	Spike	P	0 - 30
2415493	Thiobencarb	9.69	Spike	P	0 - 26
2415493	Tri-o-cresyl Phosphate	8.11	Spike	P	0 - 33
2415493	Triadimefon	11.3	Spike	P	0 - 28
2415493	Tris(1-chloro-2-propyl) phosphate (TCPP)	0.139	Spike	P	0 - 30
2415493	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	8.05	Spike	P	0 - 30
2415493	Tris(2-chloroethyl) phosphate (TCEP)	9.00	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P430905

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2415612	Aldrin	15.7	Spike	P	0 - 41
2415612	Alpha-BHC	0.955	Spike	P	0 - 25
2415612	Alpha-Chlordane	17.8	Spike	P	0 - 33
2415612	Beta-BHC	21.3	Spike	P	0 - 36
2415612	Beta-Cyfluthrin	22.1	Spike	P	0 - 42
2415612	Bifenthrin	14.3	Spike	P	0 - 53
2415612	Chlorothalonil	8.16	Spike	P	0 - 71
2415612	Cis-Nonachlor	23.9	Spike	P	0 - 29
2415612	Cypermethrin	23.8	Spike	P	0 - 40
2415612	Dacthal	13.6	Spike	P	0 - 26
2415612	DDD-p,p'	15.9	Spike	P	0 - 39
2415612	DDE-p,p'	0.0633	Spike	P	0 - 33
2415612	DDT-p,p'	5.67	Spike	P	0 - 40
2415612	Delta-BHC	16.3	Spike	P	0 - 37
2415612	Deltamethrin	29.4	Spike	P	0 - 100
2415612	Dichlobenil	9.69	Spike	P	0 - 40
2415612	Dicofol	17.7	Spike	P	0 - 31
2415612	Dieldrin	23.5	Spike	P	0 - 27
2415612	Endosulfan I	21.1	Spike	P	0 - 23
2415612	Endosulfan II	25.8	Spike	P	0 - 28
2415612	Endosulfan Sulfate	20.4	Spike	P	0 - 38
2415612	Endrin	28.3	Spike	P	0 - 63
2415612	Endrin Aldehyde	1.60	Spike	P	0 - 60
2415612	Endrin Ketone	5.71	Spike	P	0 - 37
2415612	Esfenvalerate	15.5	Spike	P	0 - 52
2415612	Ethalfluralin	10.4	Spike	P	0 - 23
2415612	Fenpropathrin	37.6	Spike	F	0 - 32
2415612	Gamma-BHC	4.41	Spike	P	0 - 17
2415612	Gamma-Chlordane	6.58	Spike	P	0 - 40

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P430905

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2415612	Heptachlor	19.9	Spike	P	0 - 29
2415612	Heptachlor Epoxide	12.0	Spike	P	0 - 25
2415612	Hexachlorobenzene	9.23	Spike	P	0 - 36
2415612	Kepone	43.6	Spike	P	0 - 93
2415612	Lambda-Cyhalothrin	4.26	Spike	P	0 - 55
2415612	Methoprene	7.41	Spike	P	0 - 53
2415612	Methoxychlor	17.2	Spike	P	0 - 29
2415612	MGK-264	3.04	Spike	P	0 - 35
2415612	Mirex	13.7	Spike	P	0 - 46
2415612	Oxychlordane	16.9	Spike	P	0 - 29
2415612	Permethrin	37.7	Spike	P	0 - 44
2415612	Phenothrin	67.0	Spike	F	0 - 56
2415612	Piperonyl Butoxide	0.348	Spike	P	0 - 100
2415612	Prallethrin	9.92	Spike	P	0 - 42
2415612	Tau-Fluvalinate	32.5	Spike	P	0 - 54
2415612	Tetramethrin	3.97	Spike	P	0 - 51
2415612	Trans-Nonachlor	12.0	Spike	P	0 - 37
2415612	Triclosan Methyl	27.3	Spike	P	0 - 31
2415612	Trifluralin	8.23	Spike	P	0 - 30
2415681	PCB-1016	25.3	Spike	P	0 - 32
2415681	PCB-1260	4.36	Spike	P	0 - 31

Reference Method: EPA 8276
Batch ID: P430905

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2415681	Chlordane	3.05	Spike	P	0 - 25
2415681	Toxaphene	5.98	Spike	P	0 - 26

Reference Method: EPA 8321B
Batch ID: P430789

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413933	Acesulfame K	0.197	Spike	P	0 - 30
2413933	AMPA	4.57	Spike	P	0 - 30
2413933	Endothall	5.10	Spike	P	0 - 30
2413933	Glufosinate	2.28	Spike	P	0 - 30
2413933	Glyphosate	1.13	Spike	P	0 - 30
2413933	Sucralose	0.255	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P430798

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413797	3-Hydroxycarbofuran	0.771	Spike	P	0 - 30
2413797	Aldicarb	9.16	Spike	P	0 - 30
2413797	Aldicarb Sulfone	0.163	Spike	P	0 - 30
2413797	Aldicarb Sulfoxide	4.30	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P430798

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413797	Carbaryl	13.0	Spike	P	0 - 30
2413797	Carbofuran	2.37	Spike	P	0 - 30
2413797	Methiocarb	2.51	Spike	P	0 - 30
2413797	Methomyl	0.464	Spike	P	0 - 30
2413797	Oxamyl	0.499	Spike	P	0 - 30
2413797	Propoxur	1.30	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P430834

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414406	2,4-D	7.77	Spike	P	0 - 30
2414406	2,4,5-T	25.3	Spike	P	0 - 30
2414406	Acetaminophen	8.21	Spike	P	0 - 30
2414406	Acetamiprid	1.31	Spike	P	0 - 30
2414406	Afidopyropen	11.0	Spike	P	0 - 30
2414406	Bentazon	4.37	Spike	P	0 - 30
2414406	Benzovindiflupyr	12.2	Spike	P	0 - 30
2414406	Carbamazepine	4.38	Spike	P	0 - 30
2414406	Clothianidin	6.79	Spike	P	0 - 30
2414406	Dinotefuran	4.99	Spike	P	0 - 30
2414406	Diuron	12.6	Spike	P	0 - 30
2414406	Fenuron	8.00	Spike	P	0 - 30
2414406	Fluridone	3.00	Spike	P	0 - 30
2414406	Hydrocodone	7.63	Spike	P	0 - 30
2414406	Ibuprofen	13.4	Spike	P	0 - 30
2414406	Imazapyr	4.17	Spike	P	0 - 30
2414406	Imidacloprid	10.2	Spike	P	0 - 30
2414406	Linuron	1.83	Spike	P	0 - 30
2414406	Mandestrobin	1.29	Spike	P	0 - 30
2414406	MCPP	6.49	Spike	P	0 - 30
2414406	Naproxen	4.48	Spike	P	0 - 30
2414406	Primidone	4.47	Spike	P	0 - 30
2414406	Pyraclostrobin	3.82	Spike	P	0 - 30
2414406	Silvex	0.689	Spike	P	0 - 30
2414406	Thiamethoxam	3.16	Spike	P	0 - 30
2414406	Tolfenpyrad	12.5	Spike	P	0 - 30
2414406	Triclopyr	21.1	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P431144

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2415722	Total Alkalinity	2.63	Sample	P	0 - 3.9

Quality Assurance Report
Precision

Reference Method: SM 2540 C-2015
Batch ID: P431306

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414566	TDS	5.76	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P431429

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414566	Fluoride	0.503	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P430957

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414396	Organic Carbon	1.39	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P431040

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414863	Organic Carbon	1.02	Spike	P	0 - 20

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2414609
Field Sample ID: G4SE0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	67.2	P	30 - 160

Lab Sample ID: 2414610
Field Sample ID: G4SE0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	74.0	P	30 - 160
EPA 8321B	Acetaminophen-d4	111	P	30 - 160
EPA 8321B	Carbamazepine-d10	68.9	P	30 - 160
EPA 8321B	Diuron-d6	59.1	P	30 - 160
EPA 8321B	Endothall-d6	97.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	43.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	75.9	P	30 - 160
EPA 8321B	Primidone-d5	76.8	P	30 - 160
EPA 8321B	Sucralose-d6	142	P	30 - 160

Lab Sample ID: 2414611
Field Sample ID: G4SE0080

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	65.6	P	30 - 160

Lab Sample ID: 2414612
Field Sample ID: G4SE0080

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	74.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	108	P	30 - 160
EPA 8321B	Carbamazepine-d10	63.2	P	30 - 160
EPA 8321B	Diuron-d6	51.4	P	30 - 160
EPA 8321B	Endothall-d6	86.6	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	79.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	67.1	P	30 - 160
EPA 8321B	Primidone-d5	82.9	P	30 - 160
EPA 8321B	Sucralose-d6	81.6	P	30 - 160

Lab Sample ID: 2414613
Field Sample ID: G4SE0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	65.1	P	29 - 130
EPA 8270E	Decachlorobiphenyl	84.8	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	69.2	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	61.7	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	62.5	P	30 - 101
EPA 8276	PCNB	89.5	P	48 - 121

Lab Sample ID: 2414614
Field Sample ID: G4SE0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	85.6	P	20 - 200

Quality Assurance Report
Surrogates

Lab Sample ID: 2414614
Field Sample ID: G4SE0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	82.7	P	62 - 142
EPA 8270E	Terbufos-d10	65.5	P	58 - 132
EPA 8270E	Terphenyl-d14	91.7	P	52 - 137

Lab Sample ID: 2414615
Field Sample ID: G4SE0080

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	68.4	P	29 - 130
EPA 8270E	Decachlorobiphenyl	68.3	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	57.3	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	39.3	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	45.9	P	30 - 101
EPA 8276	PCNB	75.8	P	48 - 121

Lab Sample ID: 2414616
Field Sample ID: G4SE0080

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	86.5	P	20 - 200
EPA 8270E	Simazine-d10	83.4	P	62 - 142
EPA 8270E	Terbufos-d10	75.3	P	58 - 132
EPA 8270E	Terphenyl-d14	82.7	P	52 - 137

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A119586
Included Lab Sample IDs: 2414609, 2414611

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	111	112	P/P	60 - 150
Aldicarb	101	99.2	P/P	60 - 150
Aldicarb Sulfone	114	109	P/P	50 - 150
Aldicarb Sulfoxide	120	113	P/P	50 - 150
Carbaryl	89.3	88.5	P/P	60 - 150
Carbofuran	108	103	P/P	50 - 150
Methiocarb	105	107	P/P	50 - 150
Methomyl	99.6	99.8	P/P	50 - 150
Oxamyl	109	107	P/P	50 - 150
Propoxur	118	108	P/P	50 - 150

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A119605
Included Lab Sample IDs: 2414595, 2414597, 2414599

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	96.5	95.8	P/P	90 - 110
Sulfate	98.4	97.8	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A119614
Included Lab Sample IDs: 2414595, 2414597, 2414599

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

Reference Method: DEP SOP: NU-094-1
Run ID: A119615
Included Lab Sample IDs: 2414595, 2414599

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.5	103	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1
Run ID: A119616
Included Lab Sample IDs: 2414597

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

Reference Method: EPA 8321B
Run ID: A119631
Included Lab Sample IDs: 2414610, 2414612

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	106	107	P/P	60 - 160
Acesulfame K	107	103	P/P	60 - 160
Sucralose	77.2	64.0	P/P	60 - 160
Sucralose	87.7	77.2	P/P	60 - 160

Quality Assurance Report
Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A119634
Included Lab Sample IDs: 2414596, 2414598, 2414600

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.4	98.3	P/P	90 - 110
Ammonia-N	98.6	98.4	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A119635
Included Lab Sample IDs: 2414610, 2414612

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	90.6	93.8	P/P	60 - 160
Endothall	91.0	90.1	P/P	60 - 160
Glufosinate	91.9	78.8	P/P	60 - 160
Glyphosate	91.8	92.5	P/P	60 - 160

Reference Method: SM 5310 B-2011
Run ID: A119651
Included Lab Sample IDs: 2414596, 2414598

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.6	99.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A119658
Included Lab Sample IDs: 2414596, 2414598

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A119659
Included Lab Sample IDs: 2414600

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.5	99.2	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A119660
Included Lab Sample IDs: 2414610, 2414612

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	91.2	96.6	P/P	50 - 150
2,4,5-T	91.0	96.9	P/P	50 - 150
Acetaminophen	112	114	P/P	60 - 160
Acetamiprid	106	109	P/P	50 - 150
Afidopyropen	109	88.5	P/P	50 - 150
Bentazon	115	112	P/P	50 - 160
Bentazon	98.5	106	P/P	50 - 160
Benzovindiflupyr	102	99.6	P/P	50 - 150
Carbamazepine	106	105	P/P	60 - 150
Clothianidin	103	113	P/P	60 - 150
Dinotefuran	110	114	P/P	50 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A119660
Included Lab Sample IDs: 2414610, 2414612

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Diuron	108	96.2	P/P	60 - 160
Fenuron	105	106	P/P	60 - 150
Fluridone	110	109	P/P	60 - 160
Hydrocodone	104	109	P/P	60 - 150
Ibuprofen	75.7	120	P/P	50 - 160
Imazapyr	98.3	106	P/P	50 - 150
Imidacloprid	97.3	99.4	P/P	60 - 150
Linuron	101	90.0	P/P	60 - 150
Mandestrobin	102	103	P/P	50 - 150
MCPP	89.8	95.8	P/P	50 - 150
Naproxen	138	93.0	P/P	50 - 160
Primidone	94.9	99.3	P/P	60 - 150
Pyraclostrobin	101	109	P/P	60 - 150
Silvex	107	117	P/P	50 - 150
Thiamethoxam	101	104	P/P	50 - 150
Tolfenpyrad	95.6	106	P/P	60 - 150
Triclopyr	74.5	78.6	P/P	50 - 150

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A119663
Included Lab Sample IDs: 2414596, 2414598, 2414600

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	104	P/P	90 - 110
Kjeldahl Nitrogen	97.7	104	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A119678
Included Lab Sample IDs: 2414619

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.5	99.9	P/P	90 - 110
Antimony	101	101	P/P	90 - 110
Arsenic	100	99.3	P/P	90 - 110
Barium	101	99.8	P/P	90 - 110
Beryllium	99.1	97.6	P/P	90 - 110
Boron	94.0	96.6	P/P	90 - 110
Cadmium	99.0	100	P/P	90 - 110
Chromium	100	100	P/P	90 - 110
Cobalt	99.9	99.2	P/P	90 - 110
Copper	97.9	97.4	P/P	90 - 110
Lead	94.3	95.0	P/P	90 - 110
Manganese	99.7	100	P/P	90 - 110
Molybdenum	97.9	98.9	P/P	90 - 110
Nickel	98.4	98.0	P/P	90 - 110
Selenium	102	101	P/P	90 - 110
Silver	102	102	P/P	90 - 110
Thallium	101	101	P/P	90 - 110
Zinc	99.3	99.6	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: SM 5310 B-2011
Run ID: A119681
Included Lab Sample IDs: 2414600

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.3	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A119723
Included Lab Sample IDs: 2414596, 2414598, 2414600

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

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A119728
Included Lab Sample IDs: 2414619

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	97.0	98.1	P/P	90 - 110
Iron	101	102	P/P	90 - 110
Magnesium	98.7	99.6	P/P	90 - 110
Potassium	101	100	P/P	90 - 110
Sodium	98.2	98.0	P/P	90 - 110
Strontium	97.7	97.7	P/P	90 - 110
Tin	94.4	94.8	P/P	90 - 110
Titanium	99.0	98.9	P/P	90 - 110
Vanadium	97.8	97.8	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A119730
Included Lab Sample IDs: 2414595, 2414597, 2414599

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.6	95.9	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A119748
Included Lab Sample IDs: 2414614, 2414616

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	105		P	80 - 120
Avobenzone	118		P	80 - 120
Dechlorane 602	103		P	80 - 120
Dechlorane 603	105		P	80 - 120
Dechlorane Plus	100		P	80 - 120
Hexabromobenzene	102		P	80 - 120
Octinoxate	96.1		P	80 - 120
Oxybenzone	97.0		P	80 - 120
PBB-153	107		P	80 - 120
PBDE-47	99.6		P	80 - 120
PBDE-99	104		P	80 - 120
Pentabromotoluene	99.1		P	80 - 120
Tetradecachloro-m-terphenyl	117		P	80 - 120
Tri-o-cresyl Phosphate	102		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	85.4		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A119748
Included Lab Sample IDs: 2414614, 2414616

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	94.8		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	91.5		P	80 - 120

Reference Method: EPA 8270E
Run ID: A119751
Included Lab Sample IDs: 2414613, 2414615

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	95.6		P	80 - 120
Alpha-BHC	95.6		P	80 - 120
Alpha-Chlordane	99.5		P	80 - 120
Beta-BHC	95.0		P	80 - 120
Beta-Cyfluthrin	95.0		P	80 - 120
Bifenthrin	97.4		P	80 - 120
Chlorothalonil	103		P	80 - 120
Cis-Nonachlor	82.1		P	80 - 120
Cypermethrin	87.9		P	80 - 120
Dacthal	103		P	80 - 120
DDD-p,p'	105		P	80 - 120
DDE-p,p'	96.7		P	80 - 120
DDT-p,p'	98.5		P	80 - 120
Delta-BHC	94.4		P	80 - 120
Deltamethrin	91.6		P	80 - 120
Dichlobenil	103		P	80 - 120
Dicofol	105		P	80 - 120
Dieldrin	103		P	80 - 120
Endosulfan I	97.0		P	80 - 120
Endosulfan II	104		P	80 - 120
Endosulfan Sulfate	97.8		P	80 - 120
Endrin	103		P	80 - 120
Endrin Aldehyde	104		P	80 - 120
Endrin Ketone	98.8		P	80 - 120
Esfenvalerate	93.3		P	80 - 120
Ethalfluralin	103		P	80 - 120
Fenpropathrin	154*		F	80 - 120
Gamma-BHC	101		P	80 - 120
Gamma-Chlordane	98.7		P	80 - 120
Heptachlor	99.2		P	80 - 120
Heptachlor Epoxide	102		P	80 - 120
Hexachlorobenzene	96.8		P	80 - 120
Kepone	77.2*		F	80 - 120
Lambda-Cyhalothrin	92.7		P	80 - 120
Methoprene	90.7		P	80 - 120
Methoxychlor	105		P	80 - 120
MGK-264	91.6		P	80 - 120
Mirex	99.8		P	80 - 120
Oxychlordane	102		P	80 - 120
Permethrin	90.6		P	80 - 120
Phenothrin	81.2		P	80 - 120
Piperonyl Butoxide	107		P	80 - 120
Prallethrin	113		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A119751
Included Lab Sample IDs: 2414613, 2414615

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tau-Fluvalinate	95.9		P	80 - 120
Tetramethrin	102		P	80 - 120
Trans-Nonachlor	113		P	80 - 120
Triclosan Methyl	95.8		P	80 - 120
Trifluralin	97.7		P	80 - 120

Reference Method: EPA 8270E
Run ID: A119782
Included Lab Sample IDs: 2414614, 2414616

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	87.5		P	80 - 120
Alachlor	90.2		P	80 - 120
Ametryn	104		P	80 - 120
Atrazine	90.0		P	80 - 120
Atrazine Desethyl	106		P	80 - 120
Azinphos Methyl	93.7		P	80 - 120
Azoxystrobin	95.5		P	80 - 120
Bromacil	104		P	80 - 120
Butylate	96.1		P	80 - 120
Caffeine	114		P	80 - 120
Carbophenothion	97.3		P	80 - 120
Carfentrazone Ethyl	99.4		P	80 - 120
Chlorfenapyr	88.3		P	80 - 120
Chlorpyrifos Ethyl	85.6		P	80 - 120
Chlorpyrifos Methyl	106		P	80 - 120
Coumaphos	95.1		P	80 - 120
Cyanazine	99.9		P	80 - 120
Cyprodinil	101		P	80 - 120
Demeton	99.7		P	80 - 120
Diazinon	98.0		P	80 - 120
Difenoconazole	103		P	80 - 120
Dimethenamid	100		P	80 - 120
Dimethomorph	86.1		P	80 - 120
Disulfoton	95.0		P	80 - 120
Dithiopyr	106		P	80 - 120
EPTC	99.4		P	80 - 120
Ethion	82.3		P	80 - 120
Ethoprop	104		P	80 - 120
Etridiazole	91.2		P	80 - 120
Fenamiphos	89.0		P	80 - 120
Fenbuconazole	85.9		P	80 - 120
Fipronil	88.3		P	80 - 120
Fipronil Desulfinyl	106		P	80 - 120
Fipronil Sulfide	106		P	80 - 120
Fipronil Sulfone	104		P	80 - 120
Fluazifop-P-butyl	94.0		P	80 - 120
Fludioxonil	113		P	80 - 120
Flumioxazin	92.6		P	80 - 120
Flutolanil	105		P	80 - 120
Fluxapyroxad	105		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A119782
Included Lab Sample IDs: 2414614, 2414616

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fonofos	102		P	80 - 120
Hexazinone	100		P	80 - 120
Imazalil	97.6		P	80 - 120
Iprodione	84.7		P	80 - 120
Loratadine	82.7		P	80 - 120
Malathion	86.6		P	80 - 120
Metalaxyl	96.1		P	80 - 120
Metolachlor	103		P	80 - 120
Metribuzin	99.4		P	80 - 120
Mevinphos	103		P	80 - 120
Molinate	89.4		P	80 - 120
Myclobutanil	89.8		P	80 - 120
Naled	96.7		P	80 - 120
Napropamide	99.8		P	80 - 120
Norflurazon	96.0		P	80 - 120
Oxadiazon	99.4		P	80 - 120
Oxyfluorfen	96.6		P	80 - 120
Parathion Ethyl	94.1		P	80 - 120
Parathion Methyl	92.6		P	80 - 120
Pendimethalin	94.8		P	80 - 120
Phenytoin	99.2		P	80 - 120
Phorate	99.8		P	80 - 120
Prodiamine	103		P	80 - 120
Prometon	103		P	80 - 120
Prometryn	112		P	80 - 120
Pronamide	101		P	80 - 120
Propanil	108		P	80 - 120
Propargite	96.2		P	80 - 120
Propiconazole	90.8		P	80 - 120
Pyraflufen Ethyl	97.5		P	80 - 120
Pyridaben	95.6		P	80 - 120
Pyriproxyfen	102		P	80 - 120
Simazine	90.4		P	80 - 120
Stirophos	86.3		P	80 - 120
Sulfentrazone	110		P	80 - 120
Tebuconazole	98.7		P	80 - 120
Terbufos	98.6		P	80 - 120
Terbuthylazine	91.0		P	80 - 120
Thiobencarb	103		P	80 - 120
Triadimefon	107		P	80 - 120

Reference Method: EPA 8276
Run ID: A119813
Included Lab Sample IDs: 2414613, 2414615

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	104		P	80 - 120
Chlordane	99.0		P	80 - 120
Toxaphene	108		P	80 - 120
Toxaphene	98.7		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A119850
Included Lab Sample IDs: 2414613, 2414615

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	91.6		P	80 - 120
PCB-1260	98.9		P	80 - 120

Reference Method: SM 4500-F- C-2011
Run ID: A119876
Included Lab Sample IDs: 2414595, 2414597, 2414599

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

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

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
DEP SOP: NU-094-1	Color (true)	98.2				2.12	
	Color (true)	100				3.69	
EPA 180.1 Rev. 2.0	Turbidity	98.5				0.683	
EPA 200.7 Rev. 4.4	Calcium	98.0	98.0	96.2			0.900
	Iron	101	102	101			0.659
	Magnesium	99.4	99.4	98.9			0.349
	Potassium	100	101	98.8			1.35
	Sodium	99.0	97.6				0.552
	Strontium	99.3	98.9	99.0			0.0427
	Tin	99.7	99.8	99.9			0.166
	Titanium	100	100	101			1.13
	Vanadium	98.3	99.1	100			1.34
EPA 200.8 Rev. 5.4	Aluminum	98.7	97.9	98.2			0.225
	Antimony	103	101	100			0.499
	Arsenic	102	99.4	99.1			0.283
	Barium	104	102	103			0.202
	Beryllium	96.9	95.5	94.3			1.20
	Boron	97.4	95.7	98.5			2.40
	Cadmium	99.5	99.5	99.0			0.549
	Chromium	98.6	98.0	98.3			0.288
	Cobalt	101	98.3	98.8			0.592
	Copper	98.9	97.1	97.2			0.171
	Lead	95.3	94.7	95.0			0.372
	Manganese	97.5	96.3	97.6			1.04
	Molybdenum	99.0	99.5	99.6			0.151
	Nickel	99.6	97.5	98.0			0.424
	Selenium	101	98.0	98.2			0.174
	Silver	103	100	101			0.785
	Thallium	98.5	98.9	100			1.21
	Zinc	98.7	97.7	98.3			0.600
EPA 300.0 Rev. 2.1	Chloride	100	104	102		2.24	
	Sulfate	99.1	99.6	91.3		1.89	
EPA 350.1 Rev. 2.0	Ammonia-N	97.8	95.8	95.2			0.580
	Ammonia-N	95.6	96.6	97.6			0.907
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.6	93.9	95.1			1.17
	Kjeldahl Nitrogen	98.8	94.8	108			7.57
EPA 353.2 Rev. 2.0	NO2NO3-N	100	100	100			0.319
EPA 365.1 Rev. 2.0	Total-P	98.0	100	102			1.73
	Total-P	100	100	99.4			0.627
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	121	140	128			9.17
	Acetochlor	78.4	86.1	91.5			5.99
	Alachlor	78.3	78.8	88.7			11.7
	Aldrin	35.2	49.9	42.6			15.7
	Alpha-BHC	81.7	82.2	83.0			0.955
	Alpha-Chlordane	66.1	93.6	78.3			17.8
	Ametryn	110	114	127			10.8
	Atrazine	88.3					0.711
	Atrazine Desethyl	87.5	97.9	102			3.11
	Avobenzone	174	193	167			14.0
	Azinphos Methyl	125	134	132			1.62
	Azoxystrobin	96.8	121	117			3.86
	Beta-BHC	73.4	71.7	88.8			21.3

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Beta-Cyfluthrin	53.4	67.7	54.2			22.1
	Bifenthrin	38.3	48.2	55.6			14.3
	Bromacil	95.2	122	118			3.27
	Butylate	62.0	68.0	72.3			6.19
	Caffeine	136	143	142			1.06
	Carbophenothion	96.6	104	111			6.11
	Carfentrazone Ethyl	112	115	121			5.04
	Chlorfenapyr	78.5	80.8	86.5			6.86
	Chlorothalonil	44.8	77.0	71.0			8.16
	Chlorpyrifos Ethyl	81.1	95.7	94.4			1.41
	Chlorpyrifos Methyl	103	110	113			2.47
	Cis-Nonachlor	43.4	44.9	35.3			23.9
	Coumaphos	132	132	144			8.28
	Cyanazine	166	178	188			5.47
	Cypermethrin	51.3	62.8	49.4			23.8
	Cyprodinil	91.5	101	114			12.4
	Dacthal	94.7	114	99.7			13.6
	DDD-p,p'	78.3	101	86.1			15.9
	DDE-p,p'	50.4	54.3	54.3			0.0633
	DDT-p,p'	59.3	59.8	56.5			5.67
	Dechlorane 602	114	126	108			15.6
	Dechlorane 603	135	161	148			8.35
	Dechlorane Plus	111	116	106			8.99
	Delta-BHC	86.7	128	109			16.3
	Deltamethrin	51.8	73.0	54.3			29.4
	Demeton	76.5	80.5	87.8			8.62
	Diazinon	97.2	109	114			5.34
	Dichlobenil	85.6	75.5	68.5			9.69
	Dicofol	58.3	65.0	54.5			17.7
	Dieldrin	75.5	98.3	77.6			23.5
	Difenoconazole	135	138	155			11.5
	Dimethenamid	95.6	105	112			6.09
	Dimethomorph	99.0	137	124			9.40
	Disulfoton	90.6	98.4	105			6.37
	Dithiopyr	103	112	116			3.21
	Endosulfan I	73.6	103	83.6			21.1
	Endosulfan II	84.6	117	90.2			25.8
	Endosulfan Sulfate	98.0	113	92.1			20.4
	Endrin	81.3	101	75.7			28.3
	Endrin Aldehyde	82.0	75.6	74.4			1.60
	Endrin Ketone	74.1	71.0	75.2			5.71
	EPTC	60.4	68.8	72.7			5.52
	Esfenvalerate	44.5	65.3	55.9			15.5
	Ethalfluralin	64.5	70.2	63.2			10.4
	Ethion	66.3	67.3	77.2			13.7
	Ethoprop	89.3	98.3	106			8.01
	Etridiazole	66.6	70.7	78.3			10.2
	Fenamiphos	78.5	94.2	99.0			4.95
	Fenbuconazole	87.7	94.0	99.1			5.32
	Fenpropathrin	68.2	92.9	63.5			37.6
	Fipronil	99.5	102	115			7.93
	Fipronil Desulfinyl	107	114	119			3.53
	Fipronil Sulfide	109	108	136			8.71
	Fipronil Sulfone	99.3	107	123			4.12

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Fluazifop-P-butyl	89.3	94.8	86.5			9.14
	Fludioxonil	103	95.6	102			6.72
	Flumioxazin	138	144	159			9.80
	Flutolanil	84.3	119	74.5			46.2
	Fluxapyroxad	98.1	106	92.0			14.4
	Fonofos	98.8	112	112			0.170
	Gamma-BHC	86.8	97.3	93.1			4.41
	Gamma-Chlordane	46.0	53.2	56.9			6.58
	Heptachlor	60.2	80.8	66.2			19.9
	Heptachlor Epoxide	71.1	75.1	66.6			12.0
	Hexabromobenzene	120	146	140			4.10
	Hexachlorobenzene	55.5	67.1	61.2			9.23
	Hexazinone	91.9	103	101			1.56
	Imazalil	93.6	91.5	84.1			8.48
	Iprodione	96.0	106	102			3.49
	Kepone	175	185	119			43.6
	Lambda-Cyhalothrin	42.2	51.3	49.1			4.26
	Loratadine	145	171	157			8.27
	Malathion	89.8	106	96.7			9.08
	Metalaxyl	84.1	99.6	90.8			9.20
	Methoprene	33.3	46.5	50.1			7.41
	Methoxychlor	61.4	63.4	53.4			17.2
	Metolachlor	97.8	111	109			2.34
	Metribuzin	103	114	107			6.30
	Mevinphos	84.9	105	96.7			7.97
	MGK-264	56.2	62.6	64.5			3.04
	Mirex	39.3	44.8	39.0			13.7
	Molinate	60.5	72.4	70.5			2.75
	Myclobutanil	91.7	105	98.6			6.11
	Naled	47.3	61.7	54.9			11.6
	Napropamide	75.1	85.4	72.3			16.6
	Norflurazon	89.2	101	102			0.901
	Octinoxate	125	140	134			4.48
	Oxadiazon	85.1	93.9	91.2			3.00
	Oxybenzone	133	146	136			6.80
	Oxychlordane	49.0	63.9	53.9			16.9
	Oxyfluorfen	99.6	112	101			9.91
	Parathion Ethyl	99.1	102	101			0.810
	Parathion Methyl	96.3	104	110			5.56
	PBB-153	136	161	147			9.21
	PBDE-47	105	121	108			11.7
	PBDE-99	105	119	103			13.8
	PCB-1016	61.7	76.0	58.9			25.3
	PCB-1260	66.6	62.3	65.1			4.36
	Pendimethalin	69.2	89.1	92.1			3.33
	Pentabromotoluene	114	133	130			2.68
	Permethrin	45.9	55.8	81.8			37.7
	Phenothrin	34.9	42.1	84.4			67.0
	Phenytoin	51.6	62.9	60.4			4.00
	Phorate	98.6	109	91.3			17.5
	Piperonyl Butoxide	83.9	92.2	91.9			0.348
	Prallethrin	65.9	75.9	68.7			9.92
	Prodiamine	44.7	51.3	49.8			2.87
	Prometon	99.0	109	102			4.77

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Prometryn	109	139	119			15.3
	Pronamide	106	121	108			11.5
	Propanil	117	142	126			11.4
	Propargite	69.1	71.4	69.6			2.54
	Propiconazole	82.4	86.9	91.7			3.28
	Pyraflufen Ethyl	86.5	83.4	97.7			15.8
	Pyridaben	108	142	130			8.92
	Pyriproxyfen	101	115	98.6			15.6
	Simazine	89.5	114	108			5.35
	Stirophos	70.8	83.2	77.1			7.66
	Sulfentrazone	93.9	114	104			6.90
	Tau-Fluvalinate	40.4	57.0	41.1			32.5
	Tebuconazole	59.8	65.0	63.9			1.84
	Terbufos	96.5	107	103			3.93
	Terbuthylazine	85.8	88.0	95.6			8.21
	Tetradecachloro-m-terphenyl	190	221	234			5.36
	Tetramethrin	57.1	67.8	70.6			3.97
	Thiobencarb	79.3	100	91.2			9.69
	Trans-Nonachlor	63.2	67.5	59.8			12.0
	Tri-o-cresyl Phosphate	125	145	134			8.11
	Triadimefon	93.4	108	96.1			11.3
	Triclosan Methyl	74.5	99.0	75.2			27.3
	Trifluralin	61.1	64.6	59.5			8.23
	Tris(1-chloro-2-propyl) phosphate (TCPP)	115	106	107			0.139
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	113	121	131			8.05
	Tris(2-chloroethyl) phosphate (TCEP)	122	139	127			9.00
EPA 8276	Chlordane	84.3	99.7	104			3.05
	Toxaphene	99.7	127	119			5.98
EPA 8321B	2,4-D	109	104	112			7.77
	2,4,5-T	96.0	133	103			25.3
	3-Hydroxycarbofuran	79.8	86.9	86.3			0.771
	Acesulfame K	106	102	101			0.197
	Acetaminophen	89.9	90.6	98.4			8.21
	Acetamiprid	79.5	76.5	77.5			1.31
	Afidopyropen	73.4	69.3	62.1			11.0
	Aldicarb	60.4	57.9	63.4			9.16
	Aldicarb Sulfone	94.9	84.6	84.4			0.163
	Aldicarb Sulfoxide	102	35.8	37.4			4.30
	AMPA	79.3	101	96.7			4.57
	Bentazon	99.3	83.4	87.1			4.37
	Benzovindiflupyr	80.3	80.9	91.4			12.2
	Carbamazepine	83.1	86.0	89.9			4.38
	Carbaryl	70.4	74.1	65.1			13.0
	Carbofuran	76.6	57.1	58.5			2.37
	Clothianidin	88.3	101	108			6.79
	Dinotefuran	90.4	95.0	99.8			4.99
	Diuron	83.5	78.5	89.1			12.6
	Endothall	90.9	86.9	82.6			5.10
	Fenuron	85.4	79.2	85.8			8.00
	Fluridone	90.6	89.9	92.6			3.00
	Glufosinate	84.0	80.1	78.3			2.28

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Glyphosate	71.4	60.2	59.5			1.13
	Hydrocodone	86.6	86.9	93.8			7.63
	Ibuprofen	119	112	128			13.4
	Imazapyr	95.6	94.4	98.4			4.17
	Imidacloprid	85.0	103	114			10.2
	Linuron	82.0	81.2	82.7			1.83
	Mandestrobin	84.5	88.6	87.4			1.29
	MCPP	96.0	96.8	103			6.49
	Methiocarb	79.1	69.2	67.5			2.51
	Methomyl	73.8	59.7	59.4			0.464
	Naproxen	67.0	51.9	54.2			4.48
	Oxamyl	87.3	72.5	72.9			0.499
	Primidone	81.5	80.3	84.0			4.47
	Propoxur	73.5	56.3	57.1			1.30
	Pyraclostrobin	77.8	81.1	84.2			3.82
	Silvex	94.4	90.2	90.9			0.689
	Sucralose	82.6	90.3	90.6			0.255
	Thiamethoxam	84.7	100	103			3.16
	Tolfenpyrad	58.4	52.7	59.7			12.5
	Triclopyr	77.8	83.5	103			21.1
SM 2320 B-2011	Total Alkalinity	100				2.63	
SM 2540 C-2015	TDS	94.5				5.76	
SM 2540 D-2015	TSS	95.9					
SM 4500-F- C-2011	Fluoride	98.3	103	103			0.503
SM 5310 B-2011	Organic Carbon	96.4	95.6	97.2			1.39
	Organic Carbon	95.6	96.2	98.2			1.02

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2414595, 2414597, 2414599
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2414595, 2414597, 2414599
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2414619
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2414619
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2414595, 2414597, 2414599
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2414595, 2414597, 2414599
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2414596, 2414598, 2414600
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2414596, 2414598, 2414600
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2414596, 2414598, 2414600
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2414596, 2414598, 2414600
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2414614, 2414616
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2414613, 2414615
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2414614, 2414616
EPA 8270E	PCBs in water matrices by GC/MS/MS	2414613, 2414615
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2414613, 2414615
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2414609, 2414611
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2414610, 2414612
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2414595, 2414597, 2414599
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2414619
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2414595, 2414597, 2414599

Reference Method Descriptions

Method	Description	Associated Samples
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2414595, 2414597, 2414599
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2414595, 2414597, 2414599
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2414596, 2414598, 2414600

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	06/06/2023			06/06/2023 15:25	Alexis Price	2414595
	06/06/2023			06/06/2023 15:26	Alexis Price	2414599
	06/06/2023			06/06/2023 16:17	Alexis Price	2414597
EPA 180.1 Rev. 2.0	06/06/2023			06/06/2023 13:21	Anna M. Plaviak	2414595
	06/06/2023			06/06/2023 13:22	Anna M. Plaviak	2414597
	06/06/2023			06/06/2023 13:23	Anna M. Plaviak	2414599
EPA 200.7 Rev. 4.4	06/06/2023	06/07/2023 12:20	George D Taylor	06/10/2023 01:12	McKinley C Carter	2414619
EPA 200.8 Rev. 5.4	06/06/2023	06/07/2023 12:20	George D Taylor	06/08/2023 16:03	Emily M Philpot	2414619
EPA 300.0 Rev. 2.1	06/06/2023			06/07/2023 19:37	James L Waggerby	2414597
	06/06/2023			06/07/2023 21:38	James L Waggerby	2414595
	06/06/2023			06/07/2023 21:53	James L Waggerby	2414599
EPA 350.1 Rev. 2.0	06/06/2023			06/07/2023 13:21	Khloe J Berg	2414596
	06/06/2023			06/07/2023 13:23	Khloe J Berg	2414598
	06/06/2023			06/07/2023 13:39	Khloe J Berg	2414600
EPA 351.2 Rev. 2.0	06/06/2023	06/07/2023 10:53	Dana G. Hughes	06/08/2023 11:34	Ping Hua	2414596
	06/06/2023	06/07/2023 10:53	Dana G. Hughes	06/08/2023 11:36	Ping Hua	2414598
	06/06/2023	06/07/2023 10:53	Dana G. Hughes	06/08/2023 11:44	Ping Hua	2414600
EPA 353.2 Rev. 2.0	06/06/2023			06/12/2023 09:48	Beverly Y. Sanders	2414596
	06/06/2023			06/12/2023 09:49	Beverly Y. Sanders	2414598
	06/06/2023			06/12/2023 09:50	Beverly Y. Sanders	2414600
EPA 365.1 Rev. 2.0	06/06/2023	06/07/2023 15:36	Adam P Silver	06/08/2023 09:53	Simonne.V. Calhoun	2414596
	06/06/2023	06/07/2023 15:36	Adam P Silver	06/08/2023 10:47	Simonne.V. Calhoun	2414598
	06/06/2023	06/07/2023 15:36	Adam P Silver	06/08/2023 11:29	Simonne.V. Calhoun	2414600
EPA 8270E	06/06/2023	06/08/2023 08:00	Fe-Val Siddell	06/12/2023 16:46	Vandana T. Nagar	2414614
	06/06/2023	06/08/2023 08:00	Fe-Val Siddell	06/12/2023 17:13	Vandana T. Nagar	2414616
	06/06/2023	06/08/2023 08:00	Fe-Val Siddell	06/12/2023 23:51	Arthur Maknenko	2414614
	06/06/2023	06/08/2023 08:00	Fe-Val Siddell	06/13/2023 00:17	Arthur Maknenko	2414616
	06/06/2023	06/09/2023 08:00	Fe-Val Siddell	06/12/2023 20:09	Michael Poppell	2414613
	06/06/2023	06/09/2023 08:00	Fe-Val Siddell	06/12/2023 20:39	Michael Poppell	2414615
	06/06/2023	06/09/2023 08:00	Fe-Val Siddell	06/16/2023 00:06	Julie Wi	2414613
	06/06/2023	06/09/2023 08:00	Fe-Val Siddell	06/16/2023 00:36	Julie Wi	2414615
EPA 8276	06/06/2023	06/09/2023 08:00	Fe-Val Siddell	06/14/2023 11:01	Arthur Maknenko	2414613
	06/06/2023	06/09/2023 08:00	Fe-Val Siddell	06/14/2023 12:52	Arthur Maknenko	2414615
EPA 8321B	06/06/2023	06/06/2023 12:00	Hoor Shaik	06/07/2023 03:54	Juyoung Kim	2414609
	06/06/2023	06/06/2023 12:00	Hoor Shaik	06/07/2023 04:13	Juyoung Kim	2414611
	06/06/2023	06/06/2023 14:00	Touraj Touran	06/06/2023 20:02	Touraj Touran	2414610
	06/06/2023	06/06/2023 14:00	Touraj Touran	06/06/2023 20:30	Touraj Touran	2414612
	06/06/2023	06/06/2023 14:00	Touraj Touran	06/07/2023 06:38	Touraj Touran	2414610
	06/06/2023	06/06/2023 14:00	Touraj Touran	06/07/2023 06:51	Touraj Touran	2414612
	06/06/2023	06/07/2023 11:00	Hoor Shaik	06/07/2023 20:51	Juyoung Kim	2414610

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	06/06/2023	06/07/2023 11:00	Hoor Shaik	06/07/2023 21:10	Juyoung Kim	2414612
	06/06/2023	06/07/2023 11:00	Hoor Shaik	06/08/2023 11:01	Juyoung Kim	2414610
SM 2320 B-2011	06/06/2023			06/11/2023 00:56	Dale L. Simmons	2414595
	06/06/2023			06/11/2023 01:07	Dale L. Simmons	2414597
	06/06/2023			06/11/2023 01:16	Dale L. Simmons	2414599
SM 2340 B-2011	06/06/2023			06/10/2023 01:12	McKinley C Carter	2414619
SM 2540 C-2015	06/06/2023			06/08/2023 15:07	Yijie Li	2414595, 2414597, 2414599
SM 2540 D-2015	06/06/2023			06/08/2023 15:07	Yijie Li	2414595, 2414597, 2414599
SM 4500-F- C-2011	06/06/2023			06/16/2023 20:27	Adam P Silver	2414597
	06/06/2023			06/16/2023 20:32	Adam P Silver	2414599
	06/06/2023			06/16/2023 21:13	Adam P Silver	2414595
SM 5310 B-2011	06/06/2023			06/07/2023 22:23	Elise M. Gillis	2414596
	06/06/2023			06/07/2023 22:38	Elise M. Gillis	2414598
	06/06/2023			06/08/2023 16:20	Elise M. Gillis	2414600