Chemical Analysis Report

SO-DIST-2024-02-22-02

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

Event Description: **2024 SMP: Shell Creek**
Request ID: **RQ-2024-02-19-54**
Customer: **SO-DIST**
Project ID: **SMP**

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

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

Certified by: Colin Wright, Program Administrator

Date Certified: 18-MAR-2024 13:33

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: SHELLCREEKRESERVOIRMID **Collection Date/Time: 02/21/2024 09:30**

Field ID: G3SD0204 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2471092	DEP SOP: NU-094-1	Color (true)	73	A	PCU	P441822	
	EPA 180.1 Rev. 2.0	Turbidity	2.8		NTU	P441825	
	EPA 300.0 Rev. 2.1	Chloride	100		mg Cl/L	P442239	
		Sulfate	77		mg SO4/L	P442242	
	SM 2320 B-2011	Total Alkalinity	135		mg CaCO3/L	P442360	
	SM 2540 C-2015	TDS	451		mg/L	P442317	
	SM 2540 D-2015	TSS	3	I	mg/L	P442116	
	SM 4500-F- C-2011	Fluoride	0.24		mg F/L	P442363	
2471093	EPA 350.1 Rev. 2.0	Ammonia-N	0.014		mg N/L	P442072	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.98		mg N/L	P441839	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.13		mg N/L	P441985	
	EPA 365.1 Rev. 2.0	Total-P	0.099		mg P/L	P441924	
	SM 5310 B-2014	Organic Carbon	16		mg C/L	P442046	
2471105	EPA 8321B	Aldicarb	0.020	U	ug/L	P441795	
		Aldicarb Sulfone	0.0020	U	ug/L	P441795	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P441795	MS
		Carbaryl	0.0020	U	ug/L	P441795	
		Carbofuran	0.0020	U	ug/L	P441795	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P441795	MS, RPD
		Methiocarb	0.0020	U	ug/L	P441795	
		Methomyl	0.0020	U	ug/L	P441795	
		Oxamyl	0.0020	U	ug/L	P441795	
		Propoxur	0.0020	U	ug/L	P441795	
2471106		2,4-D	0.0024	I	ug/L	P441858	
		Acesulfame K	0.10	U	ug/L	P441916	
		2,4,5-T	0.0040	U	ug/L	P441858	
		AMPA	1.1		ug/L	P441916	
		Acetaminophen	0.0080	U	ug/L	P441858	
		Acetamiprid	0.0020	U	ug/L	P441858	
		Endothall	0.25	U	ug/L	P441916	
		Glufosinate	0.10	U	ug/L	P441916	
		Glyphosate	0.47		ug/L	P441916	
		Afidopyropen	0.0020	U	ug/L	P441858	
		Bentazon	0.016		ug/L	P441858	
		Sucralose	0.020	I	ug/L	P441916	
		Benzovindiflupyr	0.0020	U	ug/L	P441858	
		Carbamazepine	8.0E-04	U	ug/L	P441858	
		Clothianidin	0.017		ug/L	P441858	
		Dinotefuran	0.0020	U	ug/L	P441858	
		Diuron	0.023		ug/L	P441858	
		Fenuron	0.032	U	ug/L	P441858	
		Fluridone	0.0018	I	ug/L	P441858	
		Imazapyr	0.010	I	ug/L	P441858	
		Hydrocodone	0.0020	U	ug/L	P441858	

Field ID: G3SD0204 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2471106	EPA 8321B	Ibuprofen	0.080	U	ug/L	P441858	
		Imidacloprid	0.039		ug/L	P441858	
		Linuron	0.0040	U	ug/L	P441858	
		Mandestrobin	0.0020	U	ug/L	P441858	
		MCPP	0.0020	U	ug/L	P441858	
		Naproxen	0.0080	U	ug/L	P441858	
		Primidone	0.0040	U	ug/L	P441858	
		Pyraclostrobin	0.0020	U	ug/L	P441858	
		Silvex	0.0040	U	ug/L	P441858	
		Thiamethoxam	0.029		ug/L	P441858	
		Tolfenpyrad	0.0020	U	ug/L	P441858	
		Triclopyr	0.0040	U	ug/L	P441858	
2471107	EPA 8270E	Aldrin	0.67	U	ng/L	P441976	
		Alpha-BHC	0.10	U	ng/L	P441976	
		Alpha-Chlordane	0.21	U	ng/L	P441976	
		PCB-1016	2.1	U	ng/L	P441976	
		Beta-BHC	0.10	U	ng/L	P441976	
		PCB-1221	2.1	U	ng/L	P441976	
		Beta-Cyfluthrin	1.3	U	ng/L	P441976	
		PCB-1232	2.1	U	ng/L	P441976	
		Bifenthrin	0.52	U	ng/L	P441976	
		PCB-1242	2.1	U	ng/L	P441976	
		PCB-1248	2.1	U	ng/L	P441976	
		Chlorothalonil	3.7	U	ng/L	P441976	
		PCB-1254	2.1	U	ng/L	P441976	
		Cis-Nonachlor	0.21	U	ng/L	P441976	
		PCB-1260	2.1	U	ng/L	P441976	
		Cypermethrin	1.6	U	ng/L	P441976	
		Dacthal	0.16	U	ng/L	P441976	MS
		DDD-p,p'	0.26	U	ng/L	P441976	
		DDE-p,p'	0.21	U	ng/L	P441976	
		DDT-p,p'	0.83	U	ng/L	P441976	
		Delta-BHC	0.41	U	ng/L	P441976	
		Deltamethrin	1.3	U	ng/L	P441976	
		Dichlobenil	0.26	U	ng/L	P441976	
		Dicofol	1.3	UJ	ng/L	P441976	CCV
		Dieldrin	0.41	U	ng/L	P441976	
		Endosulfan I	0.41	U	ng/L	P441976	
		Endosulfan II	0.93	U	ng/L	P441976	
		Endosulfan Sulfate	0.31	U	ng/L	P441976	
		Endrin	0.93	U	ng/L	P441976	
		Endrin Aldehyde	0.78	U	ng/L	P441976	MS
		Endrin Ketone	0.41	U	ng/L	P441976	RPD
		Esfenvalerate	0.78	U	ng/L	P441976	
		Ethalfluralin	0.16	U	ng/L	P441976	MS

Field ID: G3SD0204 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2471107	EPA 8270E	Fenpropathrin	0.26	U	ng/L	P441976	
		Gamma-BHC	0.13	U	ng/L	P441976	
		Gamma-Chlordane	0.21	U	ng/L	P441976	
		Heptachlor	0.21	U	ng/L	P441976	
		Heptachlor Epoxide	0.26	U	ng/L	P441976	
		Hexachlorobenzene**	1.0	U	ng/L	P441976	
		Kepone	14	U	ng/L	P441976	
		Lambda-Cyhalothrin	0.78	U	ng/L	P441976	
		Methoprene	0.78	U	ng/L	P441976	
		Methoxychlor	0.31	U	ng/L	P441976	
		MGK-264	0.21	U	ng/L	P441976	
		Mirex	0.36	U	ng/L	P441976	
		Oxychlordane	0.31	U	ng/L	P441976	
		Permethrin	1.7	U	ng/L	P441976	
		Phenothrin	0.93	U	ng/L	P441976	
		Piperonyl Butoxide	0.35	I	ng/L	P441976	
		Prallethrin	2.1	U	ng/L	P441976	
		Tau-Fluvalinate	0.26	U	ng/L	P441976	
		Tetramethrin	0.78	U	ng/L	P441976	
		Trans-Nonachlor	0.21	U	ng/L	P441976	
		Triclosan Methyl	0.16	U	ng/L	P441976	MS
		Trifluralin	0.21	U	ng/L	P441976	
	EPA 8276	Chlordane	2.1	UJ	ng/L	P441976	LCS
		Toxaphene	16	U	ng/L	P441976	
2471108	EPA 8270E	Oxybenzone**	10	U	ng/L	P441914	
		Acetochlor	0.21	U	ng/L	P441914	
		Octinoxate**	160	U	ng/L	P441914	
		Alachlor	0.42	U	ng/L	P441914	
		Avobenzone**	100	U	ng/L	P441914	
		Ametryn	1.1	U	ng/L	P441914	
		Atrazine	4.2		ng/L	P441914	
		PBDE-47**	4.2	U	ng/L	P441914	
		Atrazine Desethyl	1.4	U	ng/L	P441914	
		PBDE-99**	5.2	U	ng/L	P441914	
		Azinphos Methyl	3.1	U	ng/L	P441914	
		Tri-o-cresyl Phosphate**	6.3	U	ng/L	P441914	
		Azoxystrobin	0.42	U	ng/L	P441914	
		Bromacil	120		ng/L	P441914	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	13	U	ng/L	P441914	
		Butylate	0.47	U	ng/L	P441914	
		Dechlorane Plus**	31	U	ng/L	P441914	
		Caffeine**	7.8	U	ng/L	P441914	
		Dechlorane 602**	5.2	U	ng/L	P441914	
		Carbophenothion	0.52	U	ng/L	P441914	

Field ID: G3SD0204 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2471108	EPA 8270E	Dechlorane 603**	4.2	U	ng/L	P441914	
		Carfentrazone Ethyl	0.16	U	ng/L	P441914	
		Hexabromobenzene**	6.3	U	ng/L	P441914	
		Chlorfenapyr	0.31	U	ng/L	P441914	
		PBB-153**	6.3	U	ng/L	P441914	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P441914	
		Pentabromotoluene**	3.1	UJ	ng/L	P441914	LCS
		Chlorpyrifos Methyl	0.10	U	ng/L	P441914	
		Tris(2-chloroethyl) phosphate (TCEP)**	57	U	ng/L	P441914	
		Coumaphos	1.1	U	ng/L	P441914	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	26	U	ng/L	P441914	
		Cyanazine	5.2	U	ng/L	P441914	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P441914	
		Cyprodinil	0.21	U	ng/L	P441914	
		Tetradecachloro-m-terphenyl**	7.8	U	ng/L	P441914	
		Demeton	3.7	U	ng/L	P441914	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	63	U	ng/L	P441914	
		Diazinon	0.13	U	ng/L	P441914	
		Difenoconazole	0.63	U	ng/L	P441914	
		Dimethenamid	0.10	U	ng/L	P441914	
		Dimethomorph	0.31	U	ng/L	P441914	
		Disulfoton	0.63	U	ng/L	P441914	
		Dithiopyr	1.0	U	ng/L	P441914	
		EPTC	0.52	U	ng/L	P441914	
		Ethion	0.31	U	ng/L	P441914	
		Ethoprop	0.13	U	ng/L	P441914	
		Etridiazole	0.10	U	ng/L	P441914	
		Fenamiphos	0.47	U	ng/L	P441914	
		Fenbuconazole	0.52	U	ng/L	P441914	
		Fipronil	0.21	U	ng/L	P441914	
		Fipronil Desulfinyl**	0.10	U	ng/L	P441914	
		Fipronil Sulfide	0.10	U	ng/L	P441914	
		Fipronil Sulfone	0.10	U	ng/L	P441914	
		Fluazifop-P-butyl	0.10	U	ng/L	P441914	
		Fludioxonil	0.10	U	ng/L	P441914	
		Flumioxazin	3.1	U	ng/L	P441914	
		Flutolanil	0.10	U	ng/L	P441914	
		Fluxapyroxad	0.26	U	ng/L	P441914	
		Fonofos	0.16	UJ	ng/L	P441914	LCS
		Hexazinone	21		ng/L	P441914	
		Imazalil	0.68	U	ng/L	P441914	
		Iprodione	0.52	U	ng/L	P441914	
		Loratadine**	0.31	U	ng/L	P441914	
		Malathion	0.37	U	ng/L	P441914	

Field ID: G3SD0204 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2471108	EPA 8270E	Metalaxyl	32		ng/L	P441914	
		Metolachlor	6.4		ng/L	P441914	
		Metribuzin	0.56	I	ng/L	P441914	
		Mevinphos	1.0	U	ng/L	P441914	
		Molinate	0.26	U	ng/L	P441914	
		Myclobutanil	0.37	U	ng/L	P441914	
		Naled	2.6	U	ng/L	P441914	
		Napropamide	0.73	U	ng/L	P441914	
		Norflurazon	150		ng/L	P441914	
		Oxadiazon	0.37	U	ng/L	P441914	
		Oxyfluorfen	0.21	U	ng/L	P441914	
		Parathion Ethyl	0.16	UJ	ng/L	P441914	LCS
		Parathion Methyl	0.21	U	ng/L	P441914	MS
		Pendimethalin	1.8	U	ng/L	P441914	
		Phenytoin**	5.5	U	ng/L	P441914	
		Phorate	0.26	U	ng/L	P441914	
		Prodiamine	0.21	U	ng/L	P441914	
		Prometon	3.1	U	ng/L	P441914	
		Prometryn	0.37	U	ng/L	P441914	
		Pronamide	0.10	U	ng/L	P441914	
		Propanil	0.10	U	ng/L	P441914	
		Propargite	0.84	U	ng/L	P441914	
		Propiconazole	0.63	U	ng/L	P441914	
		Pyraflufen Ethyl	0.31	U	ng/L	P441914	
		Pyridaben	1.5	U	ng/L	P441914	
		Pyriproxyfen	0.26	U	ng/L	P441914	
		Simazine	6.3		ng/L	P441914	
		Stirophos	0.42	U	ng/L	P441914	
		Sulfentrazone	8.0		ng/L	P441914	MS, RPD
		Tebuconazole	1.5	U	ng/L	P441914	
		Terbufos	0.21	UJ	ng/L	P441914	LCS
		Terbuthylazine	0.21	U	ng/L	P441914	
		Thiobencarb	0.52	U	ng/L	P441914	
		Triadimefon	0.16	U	ng/L	P441914	

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 8276: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: PRAIRIE CREEK AT WASHINGTON LOOP **Collection Date/Time: 02/21/2024 10:25**

Field ID: G3SD0067 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2471109	EPA 8270E	Oxybenzone**	10	U	ng/L	P441914	
		Acetochlor	0.21	U	ng/L	P441914	
		Octinoxate**	160	U	ng/L	P441914	
		Alachlor	0.41	U	ng/L	P441914	
		Avobenzone**	100	U	ng/L	P441914	
		Ametryn	1.1	U	ng/L	P441914	
		Atrazine	2.7		ng/L	P441914	
		PBDE-47**	4.1	U	ng/L	P441914	
		Atrazine Desethyl	1.3	U	ng/L	P441914	
		PBDE-99**	5.2	U	ng/L	P441914	
		Azinphos Methyl	3.1	U	ng/L	P441914	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P441914	
		Azoxystrobin	0.41	U	ng/L	P441914	
		Bromacil	110		ng/L	P441914	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P441914	
		Butylate	0.47	U	ng/L	P441914	
		Dechlorane Plus**	31	U	ng/L	P441914	
		Caffeine**	7.8	U	ng/L	P441914	
		Dechlorane 602**	5.2	U	ng/L	P441914	
		Carbophenothion	0.52	U	ng/L	P441914	
		Dechlorane 603**	4.1	U	ng/L	P441914	
		Carfentrazone Ethyl	0.16	U	ng/L	P441914	
		Hexabromobenzene**	6.2	U	ng/L	P441914	
		Chlorfenapyr	0.31	U	ng/L	P441914	
		PBB-153**	6.2	U	ng/L	P441914	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P441914	
		Pentabromotoluene**	3.1	UJ	ng/L	P441914	LCS
		Chlorpyrifos Methyl	0.10	U	ng/L	P441914	
		Tris(2-chloroethyl) phosphate (TCEP)**	57	U	ng/L	P441914	
		Coumaphos	1.1	U	ng/L	P441914	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	26	U	ng/L	P441914	
		Cyanazine	5.2	U	ng/L	P441914	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P441914	
		Cyprodinil	0.21	U	ng/L	P441914	
		Tetradecachloro-m-terphenyl**	7.8	U	ng/L	P441914	
		Demeton	3.6	U	ng/L	P441914	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	62	U	ng/L	P441914	
		Diazinon	0.13	U	ng/L	P441914	
		Difenoconazole	0.62	U	ng/L	P441914	
		Dimethenamid	0.10	U	ng/L	P441914	
		Dimethomorph	0.31	U	ng/L	P441914	
		Disulfoton	0.62	U	ng/L	P441914	

Field ID: G3SD0067 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2471109	EPA 8270E	Dithiopyr	1.0	U	ng/L	P441914	
		EPTC	0.52	U	ng/L	P441914	
		Ethion	0.31	U	ng/L	P441914	
		Ethoprop	0.13	U	ng/L	P441914	
		Etridiazole	0.10	U	ng/L	P441914	
		Fenamiphos	0.47	U	ng/L	P441914	
		Fenbuconazole	0.52	U	ng/L	P441914	
		Fipronil	0.21	U	ng/L	P441914	
		Fipronil Desulfinyl**	0.10	U	ng/L	P441914	
		Fipronil Sulfide	0.10	U	ng/L	P441914	
		Fipronil Sulfone	0.10	U	ng/L	P441914	
		Fluazifop-P-butyl	0.10	U	ng/L	P441914	
		Fludioxonil	0.10	U	ng/L	P441914	
		Flumioxazin	3.1	U	ng/L	P441914	
		Flutolanil	0.10	U	ng/L	P441914	
		Fluxapyroxad	0.26	U	ng/L	P441914	
		Fonofos	0.16	UJ	ng/L	P441914	LCS
		Hexazinone	21		ng/L	P441914	
		Imazalil	0.67	U	ng/L	P441914	
		Iprodione	0.52	U	ng/L	P441914	
		Loratadine**	0.31	U	ng/L	P441914	
		Malathion	0.36	U	ng/L	P441914	
		Metalaxyl	22		ng/L	P441914	
		Metolachlor	20		ng/L	P441914	
		Metribuzin	0.41	U	ng/L	P441914	
		Mevinphos	1.0	U	ng/L	P441914	
		Molinate	0.26	U	ng/L	P441914	
		Myclobutanil	0.36	U	ng/L	P441914	
		Naled	2.6	U	ng/L	P441914	
		Napropamide	0.73	U	ng/L	P441914	
		Norflurazon	150		ng/L	P441914	
		Oxadiazon	0.36	U	ng/L	P441914	
		Oxyfluorfen	0.21	U	ng/L	P441914	
		Parathion Ethyl	0.16	UJ	ng/L	P441914	LCS
		Parathion Methyl	0.21	U	ng/L	P441914	MS
		Pendimethalin	1.8	U	ng/L	P441914	
		Phenytoin**	5.5	U	ng/L	P441914	
		Phorate	0.26	U	ng/L	P441914	
		Prodiamine	0.21	U	ng/L	P441914	
		Prometon	3.1	U	ng/L	P441914	
		Prometryn	0.36	U	ng/L	P441914	
		Pronamide	0.10	U	ng/L	P441914	
		Propanil	0.10	U	ng/L	P441914	
		Propargite	0.83	U	ng/L	P441914	
		Propiconazole	0.62	U	ng/L	P441914	

Field ID: G3SD0067 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2471109	EPA 8270E	Pyraflufen Ethyl	0.31	U	ng/L	P441914	
		Pyridaben	1.5	U	ng/L	P441914	
		Pyriproxyfen	0.26	U	ng/L	P441914	
		Simazine	0.26	U	ng/L	P441914	
		Stirophos	0.41	U	ng/L	P441914	
		Sulfentrazone	8.0	J	ng/L	P441914	MS, RPD
		Tebuconazole	1.5	U	ng/L	P441914	
		Terbufos	0.21	UJ	ng/L	P441914	LCS
		Terbuthylazine	0.21	U	ng/L	P441914	
		Thiobencarb	0.52	U	ng/L	P441914	
		Triadimefon	0.16	U	ng/L	P441914	
2471112	EPA 200.7 Rev. 4.4	Calcium	58.6		mg/L	P441991	
		Iron	570		ug/L	P441991	
		Magnesium	16.3		mg/L	P441991	
		Manganese	22.1		ug/L	P441991	
		Potassium	8.2		mg/L	P441991	
		Sodium	43.3		mg/L	P441991	
		Strontium	3.51E+03		ug/L	P441991	
		Tin	3.0	U	ug/L	P441991	
		Titanium	0.75	U	ug/L	P441991	
		Vanadium	2.5	I	ug/L	P441991	
		Zinc	6.3	I	ug/L	P441991	
	EPA 200.8 Rev. 5.4	Aluminum	103		ug/L	P441991	
		Antimony	0.11	I	ug/L	P441991	
		Arsenic	0.73		ug/L	P441991	
		Barium	35.7		ug/L	P441991	
		Beryllium	0.017	I	ug/L	P441991	
		Boron	52.6		ug/L	P441991	
		Cadmium	0.020	U	ug/L	P441991	
		Chromium	0.69	I	ug/L	P441991	
		Cobalt	0.154		ug/L	P441991	
		Copper	1.16		ug/L	P441991	
		Lead	0.20	U	ug/L	P441991	
		Molybdenum	0.43	I	ug/L	P441991	
		Nickel	0.73	I	ug/L	P441991	
		Selenium	0.27	I	ug/L	P441991	
		Silver	0.010	U	ug/L	P441991	
		Thallium	0.10	U	ug/L	P441991	
	SM 2340 B-2011	Hardness	213		mg/L	P441991	

Ref. Method and Comment:
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: Estimation for sulfentrazone due to internal standard recovery exceeding control limits. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: FB **Collection Date/Time: 02/21/2024 10:35**

Field ID: FB_02212024 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2471113	EPA 200.7 Rev. 4.4	Calcium	0.075	U	mg/L	P441991	
		Iron	30	U	ug/L	P441991	
		Magnesium	0.040	U	mg/L	P441991	
		Manganese	1.0	U	ug/L	P441991	
		Potassium	0.30	U	mg/L	P441991	
		Sodium	0.50	U	mg/L	P441991	
		Strontium	2.0	U	ug/L	P441991	
		Tin	3.0	U	ug/L	P441991	
		Titanium	0.75	U	ug/L	P441991	
		Vanadium	2.0	U	ug/L	P441991	
		Zinc	5.0	U	ug/L	P441991	
	EPA 200.8 Rev. 5.4	Aluminum	5.0	U	ug/L	P441991	
		Antimony	0.050	U	ug/L	P441991	
		Arsenic	0.050	U	ug/L	P441991	
		Barium	0.20	U	ug/L	P441991	
		Beryllium	0.010	U	ug/L	P441991	
		Boron	2.0	U	ug/L	P441991	
		Cadmium	0.020	U	ug/L	P441991	
		Chromium	0.40	U	ug/L	P441991	
		Cobalt	0.020	U	ug/L	P441991	
		Copper	0.40	U	ug/L	P441991	
		Lead	0.20	U	ug/L	P441991	
		Molybdenum	0.15	U	ug/L	P441991	
		Nickel	0.50	U	ug/L	P441991	
		Selenium	0.20	U	ug/L	P441991	
		Silver	0.010	U	ug/L	P441991	
		Thallium	0.10	U	ug/L	P441991	

Sample Location: LEEBRANCHATRAILROAD **Collection Date/Time: 02/21/2024 10:50**

Field ID: G3SD0212 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2471094	DEP SOP: NU-094-1	Color (true)	99		PCU	P441822	
	EPA 180.1 Rev. 2.0	Turbidity	4.1		NTU	P441825	
	EPA 300.0 Rev. 2.1	Chloride	240		mg Cl/L	P442239	
		Sulfate	81		mg SO4/L	P442242	
	SM 2320 B-2011	Total Alkalinity	124		mg CaCO3/L	P442291	RPD
	SM 2540 C-2015	TDS	614		mg/L	P442317	
	SM 2540 D-2015	TSS	6	I	mg/L	P442116	
	SM 4500-F- C-2011	Fluoride	0.46		mg F/L	P442292	RPD
2471096	EPA 350.1 Rev. 2.0	Ammonia-N	0.042		mg N/L	P442073	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P441839	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.061		mg N/L	P441985	
	EPA 365.1 Rev. 2.0	Total-P	0.35		mg P/L	P441924	
	SM 5310 B-2014	Organic Carbon	21		mg C/L	P442046	

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: RUNOFF TO PEACE RIVER SITE 3 **Collection Date/Time: 02/21/2024 14:25**

Field ID: G3SD0132 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2471095	DEP SOP: NU-094-1	Color (true)	300		PCU	P441827	
	EPA 180.1 Rev. 2.0	Turbidity	20		NTU	P441825	
	EPA 300.0 Rev. 2.1	Chloride	61		mg Cl/L	P442239	
		Sulfate	25		mg SO4/L	P442242	
	SM 2320 B-2011	Total Alkalinity	22		mg CaCO3/L	P442291	RPD
	SM 2540 C-2015	TDS	257		mg/L	P442317	
	SM 2540 D-2015	TSS	31		mg/L	P442116	
	SM 4500-F- C-2011	Fluoride	0.31		mg F/L	P442292	RPD
2471097	EPA 350.1 Rev. 2.0	Ammonia-N	0.063		mg N/L	P442073	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.4		mg N/L	P441926	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.037		mg N/L	P441985	
	EPA 365.1 Rev. 2.0	Total-P	0.66		mg P/L	P441924	
	SM 5310 B-2014	Organic Carbon	42		mg C/L	P442046	

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: P441822

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P441827

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P441825

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P441991

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Manganese	1.0	U	ug/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Titanium	0.75	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441991

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
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442239

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442242

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P442072

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P442073

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441839

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441926

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441985

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441924

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

Reference Method: EPA 8270E
Batch ID: P441914

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P441914

Component	Result	Code	Units
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	140	I	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.45	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P441914

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

Reference Method: EPA 8270E
Batch ID: P441976

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P441976

Component	Result	Code	Units
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.80	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfluralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	14	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8276
Batch ID: P441976

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

Reference Method: EPA 8321B
Batch ID: P441795

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: P441858

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P441916

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

Reference Method: SM 2320 B-2011
Batch ID: P442291

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

Reference Method: SM 2320 B-2011
Batch ID: P442360

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

Reference Method: SM 2540 C-2015
Batch ID: P442317

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P442116

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P442292

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P442363

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2014
Batch ID: P442046

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: P441822

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

Reference Method: DEP SOP: NU-094-1
Batch ID: P441827

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P441825

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P441991

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	103		P	80 - 120
Iron	94.6		P	80 - 120
Magnesium	96.2		P	80 - 120
Manganese	95.3		P	80 - 120
Potassium	89.3		P	80 - 120
Sodium	89.9		P	80 - 120
Strontium	82.6		P	80 - 120
Tin	89.4		P	80 - 120
Titanium	92.6		P	80 - 120
Vanadium	90.7		P	80 - 120
Zinc	90.1		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441991

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	103		P	85 - 115
Antimony	103		P	85 - 115
Arsenic	104		P	85 - 115
Barium	99.5		P	85 - 115
Beryllium	93.8		P	85 - 115
Boron	104		P	85 - 115
Cadmium	101		P	85 - 115
Chromium	106		P	85 - 115
Cobalt	102		P	85 - 115
Copper	101		P	85 - 115
Lead	96.0		P	85 - 115
Molybdenum	100		P	85 - 115
Nickel	102		P	85 - 115
Selenium	106		P	85 - 115
Silver	102		P	85 - 115
Thallium	96.0		P	85 - 115

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442239

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442242

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P442072

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P442073

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441839

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441926

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441985

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441924

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	94.6		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P441914

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	54.4		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	70.1		P	37 - 154
Acetochlor	83.2		P	64 - 124
Alachlor	81.1		P	61 - 118

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P441914

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ametryn	99.4		P	47 - 158
Atrazine	70.3		P	68 - 121
Atrazine Desethyl	91.3		P	30 - 119
Avobenzone	101		P	48 - 193
Azinphos Methyl	103		P	30 - 194
Azoxystrobin	92.8		P	58 - 154
Bromacil	104		P	47 - 126
Butylate	41.8		P	31 - 83.0
Caffeine	68.6		P	10 - 180
Carbophenothion	81.5		P	59 - 133
Carfentrazone Ethyl	86.7		P	59 - 147
Chlorfenapyr	80.5		P	52 - 118
Chlorpyrifos Ethyl	79.4		P	59 - 119
Chlorpyrifos Methyl	76.2		P	65 - 123
Coumaphos	80.3		P	11 - 223
Cyanazine	183		P	63 - 250
Cyprodinil	73.7		P	52 - 143
Dechlorane 602	55.7		P	23 - 142
Dechlorane 603	70.4		P	51 - 171
Dechlorane Plus	70.3		P	46 - 161
Demeton	54.4		P	42 - 119
Diazinon	95.3		P	67 - 132
Difenoconazole	99.9		P	12 - 204
Dimethenamid	61.9		P	53 - 113
Dimethomorph	119		P	13 - 238
Disulfoton	91.1		P	56 - 126
Dithiopyr	93.5		P	58 - 127
EPTC	33.5		P	31 - 78.0
Ethion	56.9		P	24 - 127
Ethoprop	65.5		P	60 - 118
Etridiazole	55.1		P	32 - 91.0
Fenamiphos	67.4		P	54 - 129
Fenbuconazole	87.1		P	31 - 162
Fipronil	85.0		P	56 - 131
Fipronil Desulfinyl	97.8		P	58 - 132
Fipronil Sulfide	75.9		P	51 - 123
Fipronil Sulfone	69.5		P	50 - 125
Fluazifop-P-butyl	106		P	52 - 132
Fludioxonil	65.6		P	52 - 129
Flumioxazin	97.6		P	34 - 250
Flutolanil	86.3		P	45 - 128
Fluxapyroxad	67.2		P	31 - 150
Fonofos	58.4		F	60 - 116
Hexabromobenzene	62.9		P	52 - 165
Hexazinone	70.2		P	59 - 120
Imazalil	87.6		P	39 - 134
Iprodione	89.0		P	39 - 243
Loratadine	117		P	10 - 240
Malathion	79.5		P	53 - 145
Metalaxyl	79.8		P	59 - 120
Metolachlor	69.2		P	64 - 122
Metribuzin	84.7		P	33 - 128

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P441914

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Mevinphos	65.9		P	48 - 119
Molinate	42.2		P	42 - 89.0
Myclobutanil	86.3		P	54 - 129
Naled	59.1		P	10 - 138
Napropamide	69.8		P	40 - 122
Norflurazon	94.6		P	49 - 132
Octinoxate	63.4		P	29 - 176
Oxadiazon	61.8		P	50 - 115
Oxybenzone	62.0		P	45 - 145
Oxyfluorfen	97.6		P	62 - 149
Parathion Ethyl	62.5		F	68 - 119
Parathion Methyl	70.0		P	68 - 147
PBB-153	71.6		P	42 - 179
PBDE-47	65.4		P	44 - 141
PBDE-99	71.7		P	36 - 141
Pendimethalin	86.3		P	59 - 158
Pentabromotoluene	56.3		F	58 - 148
Phenytoin	30.2		P	10 - 151
Phorate	67.6		P	44 - 124
Prodiamine	66.6		P	10 - 136
Prometon	76.6		P	45 - 131
Prometryn	88.8		P	52 - 140
Pronamide	87.8		P	70 - 129
Propanil	82.8		P	54 - 144
Propargite	49.1		P	10 - 191
Propiconazole	59.6		P	49 - 128
Pyraflufen Ethyl	73.6		P	46 - 141
Pyridaben	106		P	29 - 198
Pyriproxyfen	65.0		P	33 - 221
Simazine	68.5		P	62 - 119
Stirophos	67.7		P	13 - 144
Sulfentrazone	69.3		P	12 - 152
Tebuconazole	47.6		P	10 - 135
Terbufos	62.3		F	67 - 136
Terbuthylazine	70.0		P	66 - 113
Tetradecachloro-m-terphenyl	62.0		P	30 - 235
Thiobencarb	101		P	51 - 125
Tri-o-cresyl Phosphate	77.2		P	50 - 150
Triadimefon	75.1		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	64.2		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	74.6		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	72.3		P	59 - 166

Reference Method: EPA 8270E
Batch ID: P441976

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	62.1		P	30 - 96.0
Alpha-BHC	85.6		P	70 - 109
Alpha-Chlordane	95.9		P	45 - 107
Beta-BHC	118		P	64 - 138
Beta-Cyfluthrin	85.8		P	17 - 141

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P441976

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Bifenthrin	91.9		P	10 - 113
Chlorothalonil	34.8		P	26 - 180
Cis-Nonachlor	71.9		P	37 - 102
Cypermethrin	88.7		P	20 - 133
Dacthal	69.6		P	69 - 114
DDD-p,p'	92.2		P	42 - 105
DDE-p,p'	88.7		P	42 - 106
DDT-p,p'	71.2		P	42 - 107
Delta-BHC	78.5		P	67 - 144
Deltamethrin	93.9		P	15 - 149
Dichlobenil	84.9		P	46 - 117
Dicofol	55.2		P	34 - 114
Dieldrin	79.0		P	50 - 108
Endosulfan I	79.1		P	55 - 104
Endosulfan II	87.2		P	51 - 111
Endosulfan Sulfate	95.4		P	56 - 121
Endrin	80.5		P	10 - 106
Endrin Aldehyde	70.7		P	34 - 114
Endrin Ketone	107		P	63 - 177
Esfenvalerate	84.5		P	29 - 143
Ethalfluralin	92.1		P	46 - 96.0
Fenpropathrin	109		P	28 - 115
Gamma-BHC	105		P	65 - 121
Gamma-Chlordane	97.2		P	39 - 103
Heptachlor	91.0		P	39 - 94.0
Heptachlor Epoxide	65.7		P	54 - 104
Hexachlorobenzene	48.1		P	36 - 100
Kepone	99.0		P	10 - 225
Lambda-Cyhalothrin	98.8		P	10 - 135
Methoprene	106		P	10 - 109
Methoxychlor	76.6		P	52 - 112
MGK-264	111		P	44 - 117
Mirex	67.6		P	20 - 90.0
Oxychlordane	87.3		P	44 - 102
PCB-1016	89.3		P	45 - 107
PCB-1260	98.2		P	40 - 118
Permethrin	107		P	18 - 135
Phenothrin	93.1		P	10 - 102
Piperonyl Butoxide	96.9		P	28 - 156
Prallethrin	87.8		P	28 - 113
Tau-Fluvalinate	101		P	10 - 123
Tetramethrin	91.0		P	18 - 158
Trans-Nonachlor	81.8		P	39 - 104
Triclosan Methyl	67.5		P	54 - 108
Trifluralin	95.0		P	46 - 97.0

Reference Method: EPA 8276
Batch ID: P441976

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	122		F	52 - 117
Toxaphene	125		P	44 - 125

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P441795

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	81.4		P	40 - 150
Aldicarb	84.4		P	30 - 150
Aldicarb Sulfone	87.1		P	40 - 150
Aldicarb Sulfoxide	98.1		P	40 - 150
Carbaryl	77.9		P	40 - 150
Carbofuran	78.6		P	40 - 150
Methiocarb	68.0		P	40 - 150
Methomyl	86.4		P	40 - 150
Oxamyl	86.6		P	40 - 150
Propoxur	71.9		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P441858

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	79.2		P	40 - 150
2,4,5-T	77.5		P	40 - 150
Acetaminophen	73.8		P	30 - 150
Acetamiprid	83.9		P	40 - 150
Afidopyropen	61.2		P	30 - 150
Bentazon	81.5		P	30 - 150
Benzovindiflupyr	80.7		P	40 - 150
Carbamazepine	83.4		P	40 - 150
Clothianidin	83.1		P	40 - 150
Dinotefuran	90.5		P	40 - 150
Diuron	87.2		P	40 - 150
Fenuron	87.9		P	40 - 150
Fluridone	88.6		P	40 - 150
Hydrocodone	86.4		P	40 - 150
Ibuprofen	47.3		P	40 - 150
Imazapyr	78.8		P	40 - 150
Imidacloprid	83.5		P	40 - 150
Linuron	64.6		P	40 - 150
Mandestrobin	72.2		P	40 - 150
MCPP	78.5		P	40 - 150
Naproxen	65.6		P	40 - 150
Primidone	75.7		P	40 - 150
Pyraclostrobin	76.4		P	40 - 150
Silvex	74.0		P	40 - 150
Thiamethoxam	87.0		P	40 - 150
Tolfenpyrad	54.1		P	30 - 150
Triclopyr	80.3		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P441916

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	102		P	40 - 160
AMPA	92.5		P	40 - 160
Endothall	83.1		P	40 - 160
Glufosinate	86.4		P	40 - 160
Glyphosate	88.3		P	40 - 160

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P441916

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	118		P	40 - 160

Reference Method: SM 2320 B-2011
Batch ID: P442291

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.9		P	92 - 105

Reference Method: SM 2320 B-2011
Batch ID: P442360

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.5		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P442317

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	101		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P442116

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	108		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P442292

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P442363

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P442046

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	93.5		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P441991

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2470684	Calcium	99.0		P	80 - 120
2470684	Iron	107	106	P/P	80 - 120
2470684	Magnesium	107	105	P/P	80 - 120
2470684	Manganese	101	100	P/P	80 - 120
2470684	Potassium	99.2	97.8	P/P	80 - 120
2470684	Sodium	103	100	P/P	80 - 120
2470684	Strontium	95.3	94.9	P/P	80 - 120
2470684	Tin	95.7	95.4	P/P	80 - 120
2470684	Titanium	100	99.2	P/P	80 - 120
2470684	Vanadium	98.4	97.7	P/P	80 - 120
2470684	Zinc	96.9	96.0	P/P	80 - 120
2471231	Calcium	102		P	80 - 120
2471231	Iron	106		P	80 - 120
2471231	Magnesium	105		P	80 - 120
2471231	Manganese	102		P	80 - 120
2471231	Potassium	96.9		P	80 - 120
2471231	Sodium	98.4		P	80 - 120
2471231	Strontium	94.7		P	80 - 120
2471231	Tin	95.2		P	80 - 120
2471231	Titanium	101		P	80 - 120
2471231	Vanadium	97.0		P	80 - 120
2471231	Zinc	97.2		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441991

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2470684	Aluminum	103	105	P/P	80 - 120
2470684	Antimony	107	109	P/P	80 - 120
2470684	Arsenic	105	106	P/P	80 - 120
2470684	Barium	100	101	P/P	80 - 120
2470684	Beryllium	101	103	P/P	80 - 120
2470684	Boron	107	110	P/P	80 - 120
2470684	Cadmium	107	108	P/P	80 - 120
2470684	Chromium	109	111	P/P	80 - 120
2470684	Cobalt	104	105	P/P	80 - 120
2470684	Copper	103	103	P/P	80 - 120
2470684	Lead	98.2	98.7	P/P	80 - 120
2470684	Molybdenum	105	107	P/P	80 - 120
2470684	Nickel	104	104	P/P	80 - 120
2470684	Selenium	106	107	P/P	80 - 120
2470684	Silver	104	105	P/P	80 - 120
2470684	Thallium	98.9	102	P/P	80 - 120
2471231	Aluminum	102		P	80 - 120
2471231	Antimony	105		P	80 - 120
2471231	Arsenic	103		P	80 - 120
2471231	Barium	99.3		P	80 - 120
2471231	Beryllium	97.9		P	80 - 120
2471231	Boron	111		P	80 - 120
2471231	Cadmium	103		P	80 - 120
2471231	Chromium	110		P	80 - 120
2471231	Cobalt	102		P	80 - 120

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441991

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471231	Copper	101		P	80 - 120
2471231	Lead	98.3		P	80 - 120
2471231	Molybdenum	102		P	80 - 120
2471231	Nickel	101		P	80 - 120
2471231	Selenium	104		P	80 - 120
2471231	Silver	101		P	80 - 120
2471231	Thallium	101		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442239

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471010	Chloride	99.1		P	90 - 110
2471193	Chloride	104		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442242

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471010	Sulfate	99.5		P	90 - 110
2471193	Sulfate	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P442072

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2470739	Ammonia-N	94.6	97.6	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P442073

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471096	Ammonia-N	95.6	97.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441839

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2470575	Kjeldahl Nitrogen	90.2	85.8	P/F	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441926

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471242	Kjeldahl Nitrogen	105	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441985

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471000	NO2NO3-N	94.5	96.0	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441924

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471195	Total-P	97.4	99.7	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P441914

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2470412	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	63.7	54.6	P/P	50 - 150
2470412	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	60.7	67.2	P/P	29 - 155
2470412	Acetochlor	78.5	84.7	P/P	60 - 124
2470412	Alachlor	74.5	76.1	P/P	54 - 122
2470412	Ametryn	88.8	97.1	P/P	51 - 208
2470412	Atrazine	74.7	75.9	P/P	57 - 131
2470412	Atrazine Desethyl	112	97.4	P/P	13 - 124
2470412	Avobenzone	93.8	77.4	P/P	35 - 187
2470412	Azinphos Methyl	87.7	112	P/P	43 - 276
2470412	Azoxystrobin	95.0	90.8	P/P	52 - 300
2470412	Bromacil	89.9	97.4	P/P	44 - 134
2470412	Butylate	54.0	41.2	P/P	23 - 82.0
2470412	Caffeine	101	93.7	P/P	10 - 277
2470412	Carbophenothion	74.7	100	P/P	47 - 135
2470412	Carfentrazone Ethyl	81.0	108	P/P	46 - 147
2470412	Chlorfenapyr	80.9	85.8	P/P	43 - 114
2470412	Chlorpyrifos Ethyl	73.7	75.8	P/P	47 - 124
2470412	Chlorpyrifos Methyl	74.4	78.5	P/P	60 - 135
2470412	Coumaphos	71.4	67.7	P/P	10 - 222
2470412	Cyanazine	199	181	P/P	10 - 257
2470412	Cyprodinil	75.1	69.1	P/P	42 - 148
2470412	Dechlorane 602	61.4	57.9	P/P	14 - 133
2470412	Dechlorane 603	77.5	64.0	P/P	18 - 191
2470412	Dechlorane Plus	65.0	62.5	P/P	23 - 154
2470412	Demeton	61.2	56.3	P/P	41 - 137
2470412	Diazinon	87.9	91.2	P/P	64 - 139
2470412	Difenoconazole	79.3	114	P/P	46 - 254
2470412	Dimethenamid	66.9	68.3	P/P	47 - 117
2470412	Dimethomorph	120	141	P/P	14 - 255
2470412	Disulfoton	89.0	91.4	P/P	52 - 130
2470412	Dithiopyr	98.5	82.9	P/P	40 - 121
2470412	EPTC	44.8	30.1	P/P	19 - 78.0
2470412	Ethion	58.5	71.5	P/P	12 - 124
2470412	Ethoprop	77.7	74.6	P/P	68 - 144
2470412	Etridiazole	56.7	49.8	P/P	26 - 96.0
2470412	Fenamiphos	98.3	101	P/P	41 - 129
2470412	Fenbuconazole	65.6	84.6	P/P	26 - 169
2470412	Fipronil	82.6	83.7	P/P	46 - 145
2470412	Fipronil Desulfinyl	82.8	95.3	P/P	47 - 136
2470412	Fipronil Sulfide	77.0	71.3	P/P	41 - 127
2470412	Fipronil Sulfone	66.6	61.2	P/P	35 - 133
2470412	Fluazifop-P-butyl	85.9	60.9	P/P	46 - 131
2470412	Fludioxonil	70.8	70.8	P/P	51 - 124
2470412	Flumioxazin	76.8	88.1	P/P	10 - 289
2470412	Flutolanil	103	93.8	P/P	34 - 130
2470412	Fluxapyroxad	55.4	63.9	P/P	10 - 197

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P441914

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2470412	Fonofos	70.7	67.6	P/P	42 - 131
2470412	Hexabromobenzene	66.2	64.9	P/P	47 - 178
2470412	Hexazinone	77.2	75.9	P/P	64 - 125
2470412	Imazalil	97.1	92.3	P/P	37 - 252
2470412	Iprodione	62.4	77.0	P/P	34 - 265
2470412	Loratadine	88.0	123	P/P	20 - 231
2470412	Malathion	74.2	79.0	P/P	34 - 164
2470412	Metalaxyl	71.2	77.7	P/P	49 - 125
2470412	Metolachlor	81.5	70.7	P/P	54 - 125
2470412	Metribuzin	86.2	80.9	P/P	51 - 139
2470412	Mevinphos	75.0	71.3	P/P	46 - 130
2470412	Molinate	52.5	42.0	P/P	39 - 93.0
2470412	Myclobutanil	75.7	81.9	P/P	50 - 130
2470412	Naled	43.6	51.3	P/P	10 - 150
2470412	Napropamide	67.9	84.1	P/P	10 - 109
2470412	Norflurazon	71.4	95.9	P/P	36 - 134
2470412	Octinoxate	73.2	62.8	P/P	18 - 170
2470412	Oxadiazon	60.6	61.7	P/P	43 - 112
2470412	Oxybenzone	80.1	66.1	P/P	33 - 154
2470412	Oxyfluorfen	109	113	P/P	62 - 154
2470412	Parathion Ethyl	71.4	73.7	P/P	65 - 120
2470412	Parathion Methyl	65.5	77.8	F/P	77 - 185
2470412	PBB-153	62.0	67.6	P/P	23 - 193
2470412	PBDE-47	75.5	67.6	P/P	31 - 139
2470412	PBDE-99	73.3	68.3	P/P	24 - 138
2470412	Pendimethalin	101	95.2	P/P	50 - 146
2470412	Pentabromotoluene	62.0	58.1	P/P	54 - 152
2470412	Phenytoin	29.7	43.8	P/P	10 - 157
2470412	Phorate	115	112	P/P	54 - 161
2470412	Prodiamine	68.3	64.9	P/P	29 - 160
2470412	Prometon	84.6	85.6	P/P	38 - 145
2470412	Prometryn	111	96.6	P/P	32 - 151
2470412	Pronamide	87.5	94.1	P/P	61 - 140
2470412	Propanil	133	142	P/P	50 - 147
2470412	Propargite	39.5	50.8	P/P	10 - 190
2470412	Propiconazole	56.0	56.8	P/P	30 - 146
2470412	Pyraflufen Ethyl	51.5	66.2	P/P	30 - 147
2470412	Pyridaben	92.1	95.5	P/P	15 - 195
2470412	Pyriproxyfen	58.5	73.9	P/P	31 - 218
2470412	Simazine	76.6	72.0	P/P	45 - 139
2470412	Stirophos	66.8	61.1	P/P	10 - 134
2470412	Sulfentrazone	29.7	72.7	F/P	53 - 186
2470412	Tebuconazole	44.1	46.8	P/P	10 - 133
2470412	Terbufos	75.6	66.3	P/P	65 - 151
2470412	Terbuthylazine	71.6	73.0	P/P	62 - 117
2470412	Tetradecachloro-m-terphenyl	73.6	63.8	P/P	10 - 260
2470412	Thiobencarb	86.5	89.3	P/P	48 - 122
2470412	Tri-o-cresyl Phosphate	91.3	75.2	P/P	32 - 151
2470412	Triadimefon	75.6	87.6	P/P	46 - 124
2470412	Tris(1-chloro-2-propyl) phosphate (TCPP)	73.6	64.3	P/P	51 - 154
2470412	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	85.7	75.3	P/P	59 - 147
2470412	Tris(2-chloroethyl) phosphate (TCEP)	79.2	76.8	P/P	65 - 156

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P441976

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471107	PCB-1016	69.6	77.6	P/P	45 - 107
2471107	PCB-1260	64.1	68.4	P/P	40 - 112
2471326	Aldrin	42.7	52.2	P/P	24 - 81.0
2471326	Alpha-BHC	90.8	87.8	P/P	65 - 110
2471326	Alpha-Chlordane	77.8	78.5	P/P	43 - 119
2471326	Beta-BHC	90.2	97.2	P/P	54 - 165
2471326	Beta-Cyfluthrin	87.1	95.1	P/P	27 - 165
2471326	Bifenthrin	66.3	89.2	P/P	17 - 117
2471326	Chlorothalonil	32.2	52.6	P/P	10 - 255
2471326	Cis-Nonachlor	48.3	62.7	P/P	34 - 98.0
2471326	Cypermethrin	88.9	107	P/P	25 - 143
2471326	Dacthal	52.6	57.7	F/P	55 - 139
2471326	DDD-p,p'	42.6	63.4	P/P	30 - 109
2471326	DDE-p,p'	57.2	65.3	P/P	35 - 106
2471326	DDT-p,p'	65.6	70.3	P/P	41 - 101
2471326	Delta-BHC	71.5	88.1	P/P	58 - 165
2471326	Deltamethrin	70.4	113	P/P	10 - 194
2471326	Dichlobenil	54.0	55.1	P/P	22 - 114
2471326	Dicofol	53.6	61.8	P/P	17 - 133
2471326	Dieldrin	56.7	61.2	P/P	45 - 129
2471326	Endosulfan I	62.5	65.5	P/P	49 - 104
2471326	Endosulfan II	73.2	72.5	P/P	37 - 117
2471326	Endosulfan Sulfate	77.5	65.7	P/P	38 - 128
2471326	Endrin	50.7	57.3	P/P	35 - 116
2471326	Endrin Aldehyde	17.9	13.1	F/F	19 - 108
2471326	Endrin Ketone	130	73.1	P/P	44 - 134
2471326	Esfenvalerate	105	125	P/P	27 - 176
2471326	Ethalfluralin	84.8	101	P/F	49 - 100
2471326	Fenpropathrin	97.7	104	P/P	34 - 117
2471326	Gamma-BHC	89.2	95.7	P/P	59 - 129
2471326	Gamma-Chlordane	95.1	88.3	P/P	33 - 107
2471326	Heptachlor	77.1	88.8	P/P	37 - 94.0
2471326	Heptachlor Epoxide	45.9	50.6	P/P	38 - 118
2471326	Hexachlorobenzene	39.5	46.2	P/P	35 - 97.0
2471326	Kepone	81.0	91.0	P/P	10 - 221
2471326	Lambda-Cyhalothrin	100	107	P/P	23 - 190
2471326	Methoprene	97.1	93.3	P/P	21 - 109
2471326	Methoxychlor	76.8	73.4	P/P	46 - 118
2471326	MGK-264	106	96.6	P/P	39 - 122
2471326	Mirex	46.8	56.8	P/P	25 - 90.0
2471326	Oxychlordane	68.4	78.0	P/P	42 - 100
2471326	Permethrin	97.8	86.9	P/P	33 - 181
2471326	Phenothrin	70.7	88.5	P/P	12 - 125
2471326	Piperonyl Butoxide	42.4	51.8	P/P	10 - 178
2471326	Prallethrin	68.6	76.1	P/P	24 - 122
2471326	Tau-Fluvalinate	124	151	P/P	13 - 151
2471326	Tetramethrin	84.1	93.3	P/P	16 - 172
2471326	Trans-Nonachlor	53.0	58.0	P/P	39 - 100
2471326	Triclosan Methyl	41.9	44.7	F/P	43 - 110
2471326	Trifluralin	77.4	81.8	P/P	45 - 94.0

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8276
Batch ID: P441976

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471107	Chlordane	94.2	83.3	P/P	43 - 123
2471107	Toxaphene	107	98.6	P/P	27 - 156

Reference Method: EPA 8321B
Batch ID: P441795

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2470596	3-Hydroxycarbofuran	23.1	65.2	F/P	40 - 150
2470596	Aldicarb	59.4	59.5	P/P	30 - 150
2470596	Aldicarb Sulfone	68.1	67.6	P/P	40 - 150
2470596	Aldicarb Sulfoxide	30.0	30.8	F/F	40 - 150
2470596	Carbaryl	64.4	72.6	P/P	40 - 150
2470596	Carbofuran	64.5	69.2	P/P	40 - 150
2470596	Methiocarb	59.8	68.2	P/P	40 - 150
2470596	Methomyl	67.6	67.8	P/P	40 - 150
2470596	Oxamyl	71.1	70.3	P/P	40 - 150
2470596	Propoxur	63.9	66.0	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P441858

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2470865	2,4-D	85.6	81.8	P/P	40 - 150
2470865	2,4,5-T	83.7	88.4	P/P	40 - 150
2470865	Acetaminophen	65.9	74.0	P/P	30 - 150
2470865	Acetamiprid	71.4	69.3	P/P	40 - 150
2470865	Afidopyropen	66.1	67.1	P/P	30 - 150
2470865	Bentazon	92.4	81.0	P/P	30 - 150
2470865	Benzovindiflupyr	80.9	79.2	P/P	40 - 150
2470865	Carbamazepine	76.7	83.9	P/P	40 - 150
2470865	Clothianidin	82.9	86.7	P/P	40 - 150
2470865	Dinotefuran	91.3	94.4	P/P	40 - 150
2470865	Diuron	82.2	83.5	P/P	40 - 150
2470865	Fenuron	84.5	88.9	P/P	40 - 150
2470865	Fluridone	83.1	90.7	P/P	40 - 150
2470865	Hydrocodone	84.3	86.4	P/P	40 - 150
2470865	Ibuprofen	59.1	63.6	P/P	40 - 150
2470865	Imazapyr	86.8	85.4	P/P	40 - 150
2470865	Imidacloprid	85.9	89.1	P/P	40 - 150
2470865	Linuron	76.1	89.5	P/P	40 - 150
2470865	Mandestrobin	76.5	71.6	P/P	40 - 150
2470865	MCPP	83.2	81.0	P/P	40 - 150
2470865	Naproxen	95.8	83.0	P/P	40 - 150
2470865	Primidone	76.1	85.5	P/P	40 - 150
2470865	Pyraclostrobin	82.0	83.1	P/P	40 - 150
2470865	Silvex	77.1	74.0	P/P	40 - 150
2470865	Thiamethoxam	78.3	84.4	P/P	40 - 150
2470865	Tolfenpyrad	54.8	54.6	P/P	30 - 150
2470865	Triclopyr	78.7	88.4	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P441916

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471088	Acesulfame K	99.4	99.4	P/P	40 - 160
2471088	AMPA	88.2	86.5	P/P	40 - 160
2471088	Endothall	94.0	89.4	P/P	40 - 160
2471088	Glufosinate	78.3	85.9	P/P	40 - 160
2471088	Glyphosate	83.2	85.1	P/P	40 - 160
2471088	Sucralose	112	116	P/P	40 - 160

Reference Method: SM 4500-F- C-2011
Batch ID: P442292

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471438	Fluoride	94.9	98.2	P/P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P442363

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2472557	Fluoride	97.6	96.0	P/P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P442046

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471011	Organic Carbon	101	103	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P441822

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471092	Color (true)	6.13	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P441827

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470734	Color (true)	2.31	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P441825

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470958	Turbidity	9.74	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P441991

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470684	Calcium	2.01	Spike	P	0 - 20
2470684	Iron	0.533	Spike	P	0 - 20
2470684	Magnesium	1.50	Spike	P	0 - 20
2470684	Manganese	1.11	Spike	P	0 - 20
2470684	Potassium	1.27	Spike	P	0 - 20
2470684	Sodium	1.89	Spike	P	0 - 20
2470684	Strontium	0.395	Spike	P	0 - 20
2470684	Tin	0.403	Spike	P	0 - 20
2470684	Titanium	1.09	Spike	P	0 - 20
2470684	Vanadium	0.699	Spike	P	0 - 20
2470684	Zinc	0.943	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441991

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470684	Aluminum	1.58	Spike	P	0 - 20
2470684	Antimony	1.49	Spike	P	0 - 20
2470684	Arsenic	1.03	Spike	P	0 - 20
2470684	Barium	0.507	Spike	P	0 - 20
2470684	Beryllium	1.84	Spike	P	0 - 20
2470684	Boron	2.37	Spike	P	0 - 20
2470684	Cadmium	0.883	Spike	P	0 - 20
2470684	Chromium	1.81	Spike	P	0 - 20
2470684	Cobalt	1.12	Spike	P	0 - 20
2470684	Copper	0.406	Spike	P	0 - 20
2470684	Lead	0.552	Spike	P	0 - 20
2470684	Molybdenum	1.40	Spike	P	0 - 20
2470684	Nickel	0.0313	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441991

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470684	Selenium	1.13	Spike	P	0 - 20
2470684	Silver	0.772	Spike	P	0 - 20
2470684	Thallium	2.80	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442239

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471010	Chloride	0.498	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442242

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471010	Sulfate	0.468	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P442072

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470739	Ammonia-N	2.55	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P442073

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471096	Ammonia-N	1.21	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441839

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470575	Kjeldahl Nitrogen	2.59	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441926

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471242	Kjeldahl Nitrogen	2.84	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441985

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: P441985

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471000	NO2NO3-N	1.57	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441924

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471195	Total-P	2.26	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P441914

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470412	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	15.3	Spike	P	0 - 30
2470412	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	10.1	Spike	P	0 - 35
2470412	Acetochlor	7.66	Spike	P	0 - 28
2470412	Alachlor	2.12	Spike	P	0 - 30
2470412	Ametryn	8.97	Spike	P	0 - 32
2470412	Atrazine	1.50	Spike	P	0 - 33
2470412	Atrazine Desethyl	13.7	Spike	P	0 - 36
2470412	Avobenzone	19.1	Spike	P	0 - 35
2470412	Azinphos Methyl	24.6	Spike	P	0 - 62
2470412	Azoxystrobin	4.48	Spike	P	0 - 39
2470412	Bromacil	7.98	Spike	P	0 - 33
2470412	Butylate	26.8	Spike	P	0 - 51
2470412	Caffeine	7.33	Spike	P	0 - 100
2470412	Carbophenothion	29.4	Spike	P	0 - 34
2470412	Carfentrazone Ethyl	28.9	Spike	P	0 - 33
2470412	Chlorfenapyr	5.86	Spike	P	0 - 28
2470412	Chlorpyrifos Ethyl	2.82	Spike	P	0 - 31
2470412	Chlorpyrifos Methyl	5.38	Spike	P	0 - 27
2470412	Coumaphos	5.25	Spike	P	0 - 62
2470412	Cyanazine	9.73	Spike	P	0 - 48
2470412	Cyprodinil	8.28	Spike	P	0 - 29
2470412	Dechlorane 602	5.96	Spike	P	0 - 60
2470412	Dechlorane 603	19.2	Spike	P	0 - 40
2470412	Dechlorane Plus	3.82	Spike	P	0 - 38
2470412	Demeton	8.26	Spike	P	0 - 33
2470412	Diazinon	3.73	Spike	P	0 - 32
2470412	Difenoconazole	35.8	Spike	P	0 - 71
2470412	Dimethenamid	2.09	Spike	P	0 - 60
2470412	Dimethomorph	16.2	Spike	P	0 - 61
2470412	Disulfoton	2.63	Spike	P	0 - 30
2470412	Dithiopyr	17.2	Spike	P	0 - 28
2470412	EPTC	39.2	Spike	P	0 - 56
2470412	Ethion	20.1	Spike	P	0 - 79
2470412	Ethoprop	4.06	Spike	P	0 - 31
2470412	Etridiazole	13.0	Spike	P	0 - 43
2470412	Fenamiphos	2.35	Spike	P	0 - 43
2470412	Fenbuconazole	25.4	Spike	P	0 - 79

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P441914

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470412	Fipronil	1.22	Spike	P	0 - 46
2470412	Fipronil Desulfinyl	14.0	Spike	P	0 - 36
2470412	Fipronil Sulfide	7.60	Spike	P	0 - 34
2470412	Fipronil Sulfone	8.43	Spike	P	0 - 47
2470412	Fluazifop-P-butyl	34.0	Spike	P	0 - 38
2470412	Fludioxonil	0.0353	Spike	P	0 - 29
2470412	Flumioxazin	13.7	Spike	P	0 - 63
2470412	Flutolanil	8.97	Spike	P	0 - 36
2470412	Fluxapyroxad	14.3	Spike	P	0 - 65
2470412	Fonofos	4.52	Spike	P	0 - 35
2470412	Hexabromobenzene	2.09	Spike	P	0 - 41
2470412	Hexazinone	1.59	Spike	P	0 - 31
2470412	Imazalil	4.99	Spike	P	0 - 52
2470412	Iprodione	20.8	Spike	P	0 - 49
2470412	Loratadine	33.4	Spike	P	0 - 59
2470412	Malathion	6.34	Spike	P	0 - 77
2470412	Metalaxyl	8.77	Spike	P	0 - 76
2470412	Metolachlor	14.1	Spike	P	0 - 29
2470412	Metribuzin	6.38	Spike	P	0 - 51
2470412	Mevinphos	5.06	Spike	P	0 - 31
2470412	Molinate	22.2	Spike	P	0 - 39
2470412	Myclobutanil	7.88	Spike	P	0 - 34
2470412	Naled	16.4	Spike	P	0 - 37
2470412	Napropamide	21.3	Spike	P	0 - 100
2470412	Norflurazon	29.4	Spike	P	0 - 54
2470412	Octinoxate	15.3	Spike	P	0 - 35
2470412	Oxadiazon	1.81	Spike	P	0 - 34
2470412	Oxybenzone	19.2	Spike	P	0 - 35
2470412	Oxyfluorfen	3.49	Spike	P	0 - 28
2470412	Parathion Ethyl	3.18	Spike	P	0 - 31
2470412	Parathion Methyl	17.2	Spike	P	0 - 29
2470412	PBB-153	8.75	Spike	P	0 - 49
2470412	PBDE-47	11.1	Spike	P	0 - 36
2470412	PBDE-99	7.10	Spike	P	0 - 46
2470412	Pendimethalin	5.86	Spike	P	0 - 31
2470412	Pentabromotoluene	6.55	Spike	P	0 - 16
2470412	Phenytoin	38.4	Spike	P	0 - 100
2470412	Phorate	2.45	Spike	P	0 - 36
2470412	Prodiamine	5.05	Spike	P	0 - 68
2470412	Prometon	1.19	Spike	P	0 - 35
2470412	Prometryn	13.7	Spike	P	0 - 33
2470412	Pronamide	7.25	Spike	P	0 - 24
2470412	Propanil	6.62	Spike	P	0 - 28
2470412	Propargite	24.8	Spike	P	0 - 53
2470412	Propiconazole	1.47	Spike	P	0 - 44
2470412	Pyraflufen Ethyl	24.9	Spike	P	0 - 61
2470412	Pyridaben	3.62	Spike	P	0 - 43
2470412	Pyriproxyfen	23.2	Spike	P	0 - 82
2470412	Simazine	6.23	Spike	P	0 - 29
2470412	Stirophos	8.95	Spike	P	0 - 100
2470412	Sulfentrazone	84.0	Spike	F	0 - 64

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P441914

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470412	Tebuconazole	5.92	Spike	P	0 - 76
2470412	Terbufos	13.1	Spike	P	0 - 29
2470412	Terbuthylazine	2.02	Spike	P	0 - 28
2470412	Tetradecachloro-m-terphenyl	14.3	Spike	P	0 - 42
2470412	Thiobencarb	3.18	Spike	P	0 - 26
2470412	Tri-o-cresyl Phosphate	19.3	Spike	P	0 - 24
2470412	Triadimefon	14.7	Spike	P	0 - 40
2470412	Tris(1-chloro-2-propyl) phosphate (TCPP)	13.4	Spike	P	0 - 30
2470412	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	13.0	Spike	P	0 - 22
2470412	Tris(2-chloroethyl) phosphate (TCEP)	3.10	Spike	P	0 - 15

Reference Method: EPA 8270E
Batch ID: P441976

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471107	PCB-1016	11.0	Spike	P	0 - 25
2471107	PCB-1260	6.40	Spike	P	0 - 30
2471326	Aldrin	20.0	Spike	P	0 - 41
2471326	Alpha-BHC	3.42	Spike	P	0 - 25
2471326	Alpha-Chlordane	0.834	Spike	P	0 - 32
2471326	Beta-BHC	7.49	Spike	P	0 - 33
2471326	Beta-Cyfluthrin	8.79	Spike	P	0 - 43
2471326	Bifenthrin	29.5	Spike	P	0 - 52
2471326	Chlorothalonil	48.2	Spike	P	0 - 82
2471326	Cis-Nonachlor	26.0	Spike	P	0 - 33
2471326	Cypermethrin	18.7	Spike	P	0 - 51
2471326	Dacthal	9.23	Spike	P	0 - 27
2471326	DDD-p,p'	33.2	Spike	P	0 - 39
2471326	DDE-p,p'	13.3	Spike	P	0 - 31
2471326	DDT-p,p'	6.84	Spike	P	0 - 29
2471326	Delta-BHC	20.9	Spike	P	0 - 35
2471326	Deltamethrin	46.9	Spike	P	0 - 100
2471326	Dichlobenil	2.04	Spike	P	0 - 40
2471326	Dicofol	14.1	Spike	P	0 - 37
2471326	Dieldrin	7.76	Spike	P	0 - 27
2471326	Endosulfan I	4.75	Spike	P	0 - 23
2471326	Endosulfan II	0.957	Spike	P	0 - 34
2471326	Endosulfan Sulfate	16.5	Spike	P	0 - 36
2471326	Endrin	12.1	Spike	P	0 - 45
2471326	Endrin Aldehyde	31.3	Spike	P	0 - 76
2471326	Endrin Ketone	55.8	Spike	F	0 - 43
2471326	Esfenvalerate	16.8	Spike	P	0 - 51
2471326	Ethalfluralin	17.5	Spike	P	0 - 22
2471326	Fenpropathrin	6.51	Spike	P	0 - 49
2471326	Gamma-BHC	7.00	Spike	P	0 - 28
2471326	Gamma-Chlordane	7.41	Spike	P	0 - 40
2471326	Heptachlor	14.0	Spike	P	0 - 29
2471326	Heptachlor Epoxide	9.79	Spike	P	0 - 33
2471326	Hexachlorobenzene	15.6	Spike	P	0 - 36
2471326	Kepone	11.7	Spike	P	0 - 85

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P441976

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471326	Lambda-Cyhalothrin	6.86	Spike	P	0 - 55
2471326	Methoprene	3.97	Spike	P	0 - 53
2471326	Methoxychlor	4.51	Spike	P	0 - 50
2471326	MGK-264	9.54	Spike	P	0 - 43
2471326	Mirex	19.2	Spike	P	0 - 40
2471326	Oxychlordane	13.1	Spike	P	0 - 31
2471326	Permethrin	11.8	Spike	P	0 - 50
2471326	Phenothrin	22.4	Spike	P	0 - 58
2471326	Piperonyl Butoxide	11.0	Spike	P	0 - 100
2471326	Prallethrin	10.3	Spike	P	0 - 39
2471326	Tau-Fluvalinate	19.6	Spike	P	0 - 54
2471326	Tetramethrin	10.4	Spike	P	0 - 51
2471326	Trans-Nonachlor	9.09	Spike	P	0 - 39
2471326	Triclosan Methyl	6.54	Spike	P	0 - 31
2471326	Trifluralin	5.53	Spike	P	0 - 22

Reference Method: EPA 8276
Batch ID: P441976

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471107	Chlordane	12.3	Spike	P	0 - 28
2471107	Toxaphene	8.11	Spike	P	0 - 27

Reference Method: EPA 8321B
Batch ID: P441795

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470596	3-Hydroxycarbofuran	95.2	Spike	F	0 - 30
2470596	Aldicarb	0.229	Spike	P	0 - 30
2470596	Aldicarb Sulfone	0.811	Spike	P	0 - 30
2470596	Aldicarb Sulfoxide	2.51	Spike	P	0 - 30
2470596	Carbaryl	12.0	Spike	P	0 - 30
2470596	Carbofuran	7.13	Spike	P	0 - 30
2470596	Methiocarb	13.2	Spike	P	0 - 30
2470596	Methomyl	0.330	Spike	P	0 - 30
2470596	Oxamyl	1.09	Spike	P	0 - 30
2470596	Propoxur	3.18	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P441858

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470865	2,4-D	4.55	Spike	P	0 - 30
2470865	2,4,5-T	5.47	Spike	P	0 - 30
2470865	Acetaminophen	11.7	Spike	P	0 - 30
2470865	Acetamiprid	2.98	Spike	P	0 - 30
2470865	Afidopyropen	1.46	Spike	P	0 - 30
2470865	Bentazon	13.2	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P441858

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470865	Benzovindiflupyr	2.11	Spike	P	0 - 30
2470865	Carbamazepine	8.41	Spike	P	0 - 30
2470865	Clothianidin	4.45	Spike	P	0 - 30
2470865	Dinotefuran	3.42	Spike	P	0 - 30
2470865	Diuron	1.58	Spike	P	0 - 30
2470865	Fenuron	5.18	Spike	P	0 - 30
2470865	Fluridone	8.79	Spike	P	0 - 30
2470865	Hydrocodone	2.43	Spike	P	0 - 30
2470865	Ibuprofen	7.40	Spike	P	0 - 30
2470865	Imazapyr	1.17	Spike	P	0 - 30
2470865	Imidacloprid	3.19	Spike	P	0 - 30
2470865	Linuron	16.3	Spike	P	0 - 30
2470865	Mandestrobin	6.61	Spike	P	0 - 30
2470865	MCPP	2.65	Spike	P	0 - 30
2470865	Naproxen	14.3	Spike	P	0 - 30
2470865	Primidone	11.6	Spike	P	0 - 30
2470865	Pyraclostrobin	1.38	Spike	P	0 - 30
2470865	Silvex	4.15	Spike	P	0 - 30
2470865	Thiamethoxam	7.51	Spike	P	0 - 30
2470865	Tolfenpyrad	0.361	Spike	P	0 - 30
2470865	Triclopyr	11.7	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P441916

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471088	Acesulfame K	0.0326	Spike	P	0 - 30
2471088	AMPA	2.00	Spike	P	0 - 30
2471088	Endothall	4.92	Spike	P	0 - 30
2471088	Glufosinate	9.28	Spike	P	0 - 30
2471088	Glyphosate	2.13	Spike	P	0 - 30
2471088	Sucralose	2.94	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P442291

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471438	Total Alkalinity	4.41	Sample	F	0 - 3.9

Reference Method: SM 2320 B-2011
Batch ID: P442360

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2472557	Total Alkalinity	0.494	Sample	P	0 - 3.9

Quality Assurance Report
Precision

Reference Method: SM 2540 C-2015
Batch ID: P442317

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470930	TDS	3.49	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P442292

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471438	Fluoride	1.92	Spike	F	0 - 1.9

Reference Method: SM 4500-F- C-2011
Batch ID: P442363

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2472557	Fluoride	1.48	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2014
Batch ID: P442046

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471011	Organic Carbon	1.23	Spike	P	0 - 15

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2471105
Field Sample ID: G3SD0204

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	73.8	P	30 - 160

Lab Sample ID: 2471106
Field Sample ID: G3SD0204

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	70.0	P	30 - 160
EPA 8321B	Acetaminophen-d4	68.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	59.1	P	30 - 160
EPA 8321B	Diuron-d6	63.8	P	30 - 160
EPA 8321B	Endothall-d6	100	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	94.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	66.3	P	30 - 160
EPA 8321B	Primidone-d5	73.2	P	30 - 160
EPA 8321B	Sucralose-d6	117	P	30 - 160

Lab Sample ID: 2471107
Field Sample ID: G3SD0204

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	98.6	P	37 - 129
EPA 8270E	Decachlorobiphenyl	76.5	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	64.8	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	69.9	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	80.9	P	23 - 110
EPA 8276	PCNB	93.1	P	51 - 130

Lab Sample ID: 2471108
Field Sample ID: G3SD0204

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	68.2	P	20 - 200
EPA 8270E	Simazine-d10	92.4	P	58 - 137
EPA 8270E	Terbufos-d10	83.9	P	50 - 134
EPA 8270E	Terphenyl-d14	80.7	P	44 - 134

Lab Sample ID: 2471109
Field Sample ID: G3SD0067

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	65.1	P	20 - 200
EPA 8270E	Simazine-d10	87.4	P	58 - 137
EPA 8270E	Terbufos-d10	77.7	P	50 - 134
EPA 8270E	Terphenyl-d14	72.2	P	44 - 134

Quality Assurance Report
Calibration Verification

Reference Method: DEP SOP: NU-094-1
Run ID: A124327
Included Lab Sample IDs: 2471092, 2471094

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

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A124329
Included Lab Sample IDs: 2471092, 2471094, 2471095

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	99.0	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1
Run ID: A124331
Included Lab Sample IDs: 2471095

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.7	99.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A124391
Included Lab Sample IDs: 2471093, 2471096

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.9	97.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A124406
Included Lab Sample IDs: 2471093, 2471096, 2471097

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A124407
Included Lab Sample IDs: 2471093, 2471096, 2471097

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A124417
Included Lab Sample IDs: 2471097

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	106	103	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A124424
Included Lab Sample IDs: 2471106

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	87.6	93.3	P/P	60 - 160
Endothall	83.9	78.0	P/P	60 - 160

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A124424
Included Lab Sample IDs: 2471106

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Glufosinate	77.6	83.6	P/P	60 - 160
Glyphosate	83.5	90.5	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A124426
Included Lab Sample IDs: 2471106

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	99.0	102	P/P	60 - 160
Sucralose	112	119	P/P	60 - 160

Reference Method: SM 5310 B-2014
Run ID: A124437
Included Lab Sample IDs: 2471093, 2471096, 2471097

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	107	99.0	P/P	70 - 130

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A124439
Included Lab Sample IDs: 2471092, 2471094, 2471095

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A124442
Included Lab Sample IDs: 2471093, 2471096, 2471097

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.6	97.4	P/P	90 - 110
Ammonia-N	97.8	98.0	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A124462
Included Lab Sample IDs: 2471113

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.8	104	P/P	90 - 110
Antimony	98.9	103	P/P	90 - 110
Arsenic	101	102	P/P	90 - 110
Beryllium	99.7	102	P/P	90 - 110
Boron	99.1	104	P/P	90 - 110
Cadmium	99.1	102	P/P	90 - 110
Chromium	97.7	102	P/P	90 - 110
Cobalt	96.6	99.8	P/P	90 - 110
Copper	98.0	99.7	P/P	90 - 110
Lead	94.2	96.4	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A124462
Included Lab Sample IDs: 2471113

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Molybdenum	98.7	101	P/P	90 - 110
Nickel	97.5	99.7	P/P	90 - 110
Selenium	101	103	P/P	90 - 110
Silver	97.5	100	P/P	90 - 110
Thallium	102	105	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A124466
Included Lab Sample IDs: 2471108, 2471109

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	104		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	96.6		P	80 - 120
Avobenzone	92.9		P	80 - 120
Dechlorane 602	105		P	80 - 120
Dechlorane 603	95.8		P	80 - 120
Dechlorane Plus	94.2		P	80 - 120
Hexabromobenzene	99.5		P	80 - 120
Octinoxate	102		P	80 - 120
Oxybenzone	99.7		P	80 - 120
PBB-153	93.1		P	80 - 120
PBDE-47	96.6		P	80 - 120
PBDE-99	98.2		P	80 - 120
Pentabromotoluene	98.3		P	80 - 120
Tetradecachloro-m-terphenyl	90.3		P	80 - 120
Tri-o-cresyl Phosphate	107		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	103		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	107		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	99.6		P	80 - 120

Reference Method: EPA 8321B
Run ID: A124488
Included Lab Sample IDs: 2471106

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	88.0	78.7	P/P	50 - 150
2,4,5-T	71.9	69.6	P/P	50 - 150
3-Hydroxycarbofuran	112	112	P/P	60 - 150
Acetaminophen	90.9	76.4	P/P	60 - 160
Acetamiprid	87.6	74.6	P/P	50 - 150
Afidopyropen	88.9	70.1	P/P	50 - 150
Aldicarb	113	122	P/P	60 - 150
Aldicarb Sulfone	101	101	P/P	50 - 150
Aldicarb Sulfoxide	108	101	P/P	50 - 150
Bentazon	87.7	68.0	P/P	50 - 160
Benzovindiflupyr	102	96.5	P/P	50 - 150
Carbamazepine	97.9	88.2	P/P	60 - 150
Carbaryl	109	115	P/P	60 - 150
Carbofuran	123	124	P/P	50 - 150
Clothianidin	89.6	73.4	P/P	60 - 150
Dinotefuran	97.7	87.0	P/P	50 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A124488
Included Lab Sample IDs: 2471106

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Diuron	97.0	78.0	P/P	60 - 160
Fenuron	96.2	81.1	P/P	60 - 150
Fluridone	94.3	82.0	P/P	60 - 160
Hydrocodone	98.0	82.5	P/P	60 - 150
Ibuprofen	134	133	P/P	50 - 160
Imazapyr	82.5	76.1	P/P	50 - 150
Imidacloprid	82.1	69.8	P/P	60 - 150
Linuron	84.8	95.8	P/P	60 - 150
Mandestrobin	86.1	74.7	P/P	50 - 150
MCPP	91.1	67.3	P/P	50 - 150
Methiocarb	108	107	P/P	50 - 150
Methomyl	108	105	P/P	50 - 150
Naproxen	84.6	88.7	P/P	50 - 160
Oxamyl	105	103	P/P	50 - 150
Primidone	96.0	84.7	P/P	60 - 150
Propoxur	128	128	P/P	50 - 150
Pyraclostrobin	101	99.3	P/P	60 - 150
Silvex	81.1	70.0	P/P	50 - 150
Thiamethoxam	92.7	79.4	P/P	50 - 150
Tolfenpyrad	92.6	93.0	P/P	60 - 150
Triclopyr	71.2	67.4	P/P	50 - 150

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A124495
Included Lab Sample IDs: 2471112, 2471113

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	95.8	95.3	P/P	90 - 110
Antimony	96.3	95.2	P/P	90 - 110
Arsenic	100	98.7	P/P	90 - 110
Barium	97.1	95.6	P/P	90 - 110
Boron	95.1	101	P/P	90 - 110
Cadmium	96.5	96.3	P/P	90 - 110
Chromium	94.2	98.1	P/P	90 - 110
Cobalt	94.0	95.5	P/P	90 - 110
Copper	96.7	93.1	P/P	90 - 110
Lead	95.7	94.5	P/P	90 - 110
Molybdenum	97.6	96.3	P/P	90 - 110
Nickel	96.5	97.5	P/P	90 - 110
Selenium	98.6	98.1	P/P	90 - 110
Silver	95.0	94.3	P/P	90 - 110
Thallium	101	100	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A124531
Included Lab Sample IDs: 2471094, 2471095

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	100	96.0	P/P	90 - 110
Total Alkalinity	96.0	98.3	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: SM 4500-F- C-2011
Run ID: A124531
Included Lab Sample IDs: 2471094, 2471095

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	100	P/P	90 - 110
Fluoride	100	98.5	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A124537
Included Lab Sample IDs: 2471112

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

Reference Method: SM 2320 B-2011
Run ID: A124561
Included Lab Sample IDs: 2471092

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	100	96.7	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A124561
Included Lab Sample IDs: 2471092

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

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A124619
Included Lab Sample IDs: 2471112, 2471113

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	101	P/P	90 - 110
Calcium	98.9	98.8	P/P	90 - 110
Iron	100	100	P/P	90 - 110
Iron	98.3	98.2	P/P	90 - 110
Magnesium	100	100	P/P	90 - 110
Magnesium	98.4	98.2	P/P	90 - 110
Manganese	102	101	P/P	90 - 110
Manganese	103	103	P/P	90 - 110
Potassium	98.9	98.7	P/P	90 - 110
Potassium	99.6	98.9	P/P	90 - 110
Sodium	97.2	96.8	P/P	90 - 110
Sodium	98.3	97.4	P/P	90 - 110
Strontium	96.9	95.5	P/P	90 - 110
Strontium	98.1	96.7	P/P	90 - 110
Tin	101	100	P/P	90 - 110
Tin	99.8	99.8	P/P	90 - 110
Titanium	100	99.0	P/P	90 - 110
Titanium	100	100	P/P	90 - 110
Vanadium	99.5	98.8	P/P	90 - 110
Vanadium	99.8	99.5	P/P	90 - 110
Zinc	99.7	99.9	P/P	90 - 110
Zinc	99.8	99.2	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A124676
Included Lab Sample IDs: 2471107

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	106		P	80 - 120
PCB-1260	105		P	80 - 120

Reference Method: EPA 8276
Run ID: A124684
Included Lab Sample IDs: 2471107

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.7		P	80 - 120
Toxaphene	93.5		P	80 - 120

Reference Method: EPA 8270E
Run ID: A124688
Included Lab Sample IDs: 2471107

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	104		P	80 - 120
Alpha-BHC	100		P	80 - 120
Alpha-Chlordane	86.3		P	80 - 120
Beta-BHC	87.7		P	80 - 120
Beta-Cyfluthrin	96.4		P	80 - 120
Bifenthrin	108		P	80 - 120
Chlorothalonil	103		P	80 - 120
Cis-Nonachlor	88.3		P	80 - 120
Cypermethrin	103		P	80 - 120
Dacthal	91.1		P	80 - 120
DDE-p,p'	111		P	80 - 120
Delta-BHC	98.2		P	80 - 120
Deltamethrin	101		P	80 - 120
Dichlobenil	100		P	80 - 120
Dicofol	79.2*		F	80 - 120
Dieldrin	102		P	80 - 120
Endosulfan I	104		P	80 - 120
Endosulfan II	104		P	80 - 120
Endosulfan Sulfate	95.9		P	80 - 120
Endrin	102		P	80 - 120
Endrin Aldehyde	97.6		P	80 - 120
Endrin Ketone	101		P	80 - 120
Esfenvalerate	97.5		P	80 - 120
Ethalfluralin	113		P	80 - 120
Fenpropathrin	108		P	80 - 120
Gamma-BHC	97.9		P	80 - 120
Gamma-Chlordane	92.6		P	80 - 120
Heptachlor	85.9		P	80 - 120
Heptachlor Epoxide	88.0		P	80 - 120
Hexachlorobenzene	100		P	80 - 120
Kepone	98.4		P	80 - 120
Lambda-Cyhalothrin	102		P	80 - 120
Methoprene	98.3		P	80 - 120
Methoxychlor	100		P	80 - 120
MGK-264	99.2		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A124688
Included Lab Sample IDs: 2471107

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Mirex	103		P	80 - 120
Oxychlordane	116		P	80 - 120
Permethrin	96.4		P	80 - 120
Phenothrin	103		P	80 - 120
Prallethrin	105		P	80 - 120
Tau-Fluvalinate	98.2		P	80 - 120
Tetramethrin	100		P	80 - 120
Trans-Nonachlor	89.6		P	80 - 120
Triclosan Methyl	91.1		P	80 - 120
Trifluralin	98.9		P	80 - 120

Reference Method: EPA 8270E
Run ID: A124707
Included Lab Sample IDs: 2471107

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
DDD-p,p'	100		P	80 - 120
DDT-p,p'	94.2		P	80 - 120
Piperonyl Butoxide	103		P	80 - 120

Reference Method: EPA 8270E
Run ID: A124708
Included Lab Sample IDs: 2471108, 2471109

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	93.5		P	80 - 120
Alachlor	85.6		P	80 - 120
Ametryn	110		P	80 - 120
Atrazine	92.9		P	80 - 120
Atrazine Desethyl	96.3		P	80 - 120
Azinphos Methyl	99.7		P	80 - 120
Azoxystrobin	100		P	80 - 120
Bromacil	102		P	80 - 120
Butylate	103		P	80 - 120
Caffeine	102		P	80 - 120
Carbophenothion	110		P	80 - 120
Carfentrazone Ethyl	104		P	80 - 120
Chlorfenapyr	93.8		P	80 - 120
Chlorpyrifos Ethyl	91.4		P	80 - 120
Chlorpyrifos Methyl	96.4		P	80 - 120
Coumaphos	95.9		P	80 - 120
Cyanazine	85.5		P	80 - 120
Cyprodinil	93.7		P	80 - 120
Demeton	98.7		P	80 - 120
Diazinon	100		P	80 - 120
Difenoconazole	108		P	80 - 120
Dimethenamid	93.5		P	80 - 120
Dimethomorph	87.9		P	80 - 120
Disulfoton	104		P	80 - 120
Dithiopyr	118		P	80 - 120
EPTC	98.0		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A124708
Included Lab Sample IDs: 2471108, 2471109

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ethion	93.7		P	80 - 120
Ethoprop	99.4		P	80 - 120
Etridiazole	95.8		P	80 - 120
Fenamiphos	90.6		P	80 - 120
Fenbuconazole	94.3		P	80 - 120
Fipronil	89.0		P	80 - 120
Fipronil Desulfinyl	105		P	80 - 120
Fipronil Sulfide	98.1		P	80 - 120
Fipronil Sulfone	87.4		P	80 - 120
Fluazifop-P-butyl	97.0		P	80 - 120
Fludioxonil	102		P	80 - 120
Flumioxazin	90.6		P	80 - 120
Flutolanil	89.1		P	80 - 120
Fluxapyroxad	94.9		P	80 - 120
Fonofos	90.9		P	80 - 120
Hexazinone	99.6		P	80 - 120
Imazalil	112		P	80 - 120
Iprodione	95.8		P	80 - 120
Loratadine	89.2		P	80 - 120
Malathion	90.5		P	80 - 120
Metalaxyl	84.9		P	80 - 120
Metolachlor	101		P	80 - 120
Metribuzin	102		P	80 - 120
Mevinphos	99.5		P	80 - 120
Molinate	86.5		P	80 - 120
Myclobutanil	84.7		P	80 - 120
Naled	111		P	80 - 120
Napropamide	103		P	80 - 120
Norflurazon	98.1		P	80 - 120
Oxadiazon	99.0		P	80 - 120
Oxyfluorfen	104		P	80 - 120
Parathion Ethyl	92.9		P	80 - 120
Parathion Methyl	84.5		P	80 - 120
Pendimethalin	99.6		P	80 - 120
Phenytoin	98.6		P	80 - 120
Phorate	103		P	80 - 120
Prodiamine	109		P	80 - 120
Prometon	99.1		P	80 - 120
Prometryn	96.1		P	80 - 120
Pronamide	102		P	80 - 120
Propanil	119		P	80 - 120
Propargite	105		P	80 - 120
Propiconazole	90.2		P	80 - 120
Pyraflufen Ethyl	91.5		P	80 - 120
Pyridaben	107		P	80 - 120
Pyriproxyfen	104		P	80 - 120
Simazine	83.2		P	80 - 120
Stirophos	94.9		P	80 - 120
Sulfentrazone	96.5		P	80 - 120
Tebuconazole	99.2		P	80 - 120
Terbufos	96.9		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A124708
Included Lab Sample IDs: 2471108, 2471109

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Terbuthylazine	93.9		P	80 - 120
Thiobencarb	110		P	80 - 120
Triadimefon	96.6		P	80 - 120

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

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision		
						LCS	SMP	MS
DEP SOP: NU-094-1	Color (true)	103					6.13	
	Color (true)	99.5					2.31	
EPA 180.1 Rev. 2.0	Turbidity	102					9.74	
EPA 200.7 Rev. 4.4	Calcium	103	99.0	102				2.01
	Iron	94.6	107	106	106			0.533
	Magnesium	96.2	107	105	105			1.50
	Manganese	95.3	101	100	102			1.11
	Potassium	89.3	99.2	97.8	96.9			1.27
	Sodium	89.9	103	100	98.4			1.89
	Strontium	82.6	95.3	94.9	94.7			0.395
	Tin	89.4	95.7	95.4	95.2			0.403
	Titanium	92.6	100	99.2	101			1.09
	Vanadium	90.7	98.4	97.7	97.0			0.699
	Zinc	90.1	96.9	96.0	97.2			0.943
EPA 200.8 Rev. 5.4	Aluminum	103	103	105	102			1.58
	Antimony	103	107	109	105			1.49
	Arsenic	104	105	106	103			1.03
	Barium	99.5	100	101	99.3			0.507
	Beryllium	93.8	101	103	97.9			1.84
	Boron	104	107	110	111			2.37
	Cadmium	101	107	108	103			0.883
	Chromium	106	109	111	110			1.81
	Cobalt	102	104	105	102			1.12
	Copper	101	103	103	101			0.406
	Lead	96.0	98.2	98.7	98.3			0.552
	Molybdenum	100	105	107	102			1.40
	Nickel	102	104	104	101			0.0313
	Selenium	106	106	107	104			1.13
	Silver	102	104	105	101			0.772
	Thallium	96.0	98.9	102	101			2.80
EPA 300.0 Rev. 2.1	Chloride	105	99.1	104			0.498	
	Sulfate	105	99.5	100			0.468	
EPA 350.1 Rev. 2.0	Ammonia-N	95.8	94.6	97.6				2.55
	Ammonia-N	95.4	95.6	97.8				1.21
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	90.2	85.8				2.59
	Kjeldahl Nitrogen	103	105	101				2.84
EPA 353.2 Rev. 2.0	NO2NO3-N	99.0	94.5	96.0				1.57
EPA 365.1 Rev. 2.0	Total-P	94.6	97.4	99.7				2.26
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	54.4	63.7	54.6				15.3
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	70.1	60.7	67.2				10.1
	Acetochlor	83.2	78.5	84.7				7.66
	Alachlor	81.1	74.5	76.1				2.12
	Aldrin	62.1	42.7	52.2				20.0
	Alpha-BHC	85.6	90.8	87.8				3.42
	Alpha-Chlordane	95.9	77.8	78.5				0.834
	Ametryn	99.4	88.8	97.1				8.97
	Atrazine	70.3	74.7	75.9				1.50
	Atrazine Desethyl	91.3	112	97.4				13.7
	Avobenzone	101	93.8	77.4				19.1
	Azinphos Methyl	103	87.7	112				24.6
	Azoxystrobin	92.8	95.0	90.8				4.48

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Beta-BHC	118	90.2	97.2			7.49
	Beta-Cyfluthrin	85.8	87.1	95.1			8.79
	Bifenthrin	91.9	66.3	89.2			29.5
	Bromacil	104	89.9	97.4			7.98
	Butylate	41.8	54.0	41.2			26.8
	Caffeine	68.6	101	93.7			7.33
	Carbophenothion	81.5	74.7	100			29.4
	Carfentrazone Ethyl	86.7	81.0	108			28.9
	Chlorfenapyr	80.5	80.9	85.8			5.86
	Chlorothalonil	34.8	32.2	52.6			48.2
	Chlorpyrifos Ethyl	79.4	73.7	75.8			2.82
	Chlorpyrifos Methyl	76.2	74.4	78.5			5.38
	Cis-Nonachlor	71.9	48.3	62.7			26.0
	Coumaphos	80.3	71.4	67.7			5.25
	Cyanazine	183	199	181			9.73
	Cypermethrin	88.7	88.9	107			18.7
	Cyprodinil	73.7	75.1	69.1			8.28
	Dacthal	69.6	52.6	57.7			9.23
	DDD-p,p'	92.2	42.6	63.4			33.2
	DDE-p,p'	88.7	57.2	65.3			13.3
	DDT-p,p'	71.2	65.6	70.3			6.84
	Dechlorane 602	55.7	61.4	57.9			5.96
	Dechlorane 603	70.4	77.5	64.0			19.2
	Dechlorane Plus	70.3	65.0	62.5			3.82
	Delta-BHC	78.5	71.5	88.1			20.9
	Deltamethrin	93.9	70.4	113			46.9
	Demeton	54.4	61.2	56.3			8.26
	Diazinon	95.3	87.9	91.2			3.73
	Dichlobenil	84.9	54.0	55.1			2.04
	Dicofol	55.2	53.6	61.8			14.1
	Dieldrin	79.0	56.7	61.2			7.76
	Difenoconazole	99.9	79.3	114			35.8
	Dimethenamid	61.9	66.9	68.3			2.09
	Dimethomorph	119	120	141			16.2
	Disulfoton	91.1	89.0	91.4			2.63
	Dithiopyr	93.5	98.5	82.9			17.2
	Endosulfan I	79.1	62.5	65.5			4.75
	Endosulfan II	87.2	73.2	72.5			0.957
	Endosulfan Sulfate	95.4	77.5	65.7			16.5
	Endrin	80.5	50.7	57.3			12.1
	Endrin Aldehyde	70.7	17.9	13.1			31.3
	Endrin Ketone	107	130	73.1			55.8
	EPTC	33.5	44.8	30.1			39.2
	Esfenvalerate	84.5	105	125			16.8
	Ethalfluralin	92.1	84.8	101			17.5
	Ethion	56.9	58.5	71.5			20.1
	Ethoprop	65.5	77.7	74.6			4.06
	Etridiazole	55.1	56.7	49.8			13.0
	Fenamiphos	67.4	98.3	101			2.35
	Fenbuconazole	87.1	65.6	84.6			25.4
	Fenpropathrin	109	97.7	104			6.51
	Fipronil	85.0	82.6	83.7			1.22
	Fipronil Desulfinyl	97.8	82.8	95.3			14.0
	Fipronil Sulfide	75.9	77.0	71.3			7.60

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Fipronil Sulfone	69.5	66.6	61.2			8.43
	Fluazifop-P-butyl	106	85.9	60.9			34.0
	Fludioxonil	65.6	70.8	70.8			0.0353
	Flumioxazin	97.6	76.8	88.1			13.7
	Flutolanil	86.3	103	93.8			8.97
	Fluxapyroxad	67.2	55.4	63.9			14.3
	Fonofos	58.4	70.7	67.6			4.52
	Gamma-BHC	105	89.2	95.7			7.00
	Gamma-Chlordane	97.2	95.1	88.3			7.41
	Heptachlor	91.0	77.1	88.8			14.0
	Heptachlor Epoxide	65.7	45.9	50.6			9.79
	Hexabromobenzene	62.9	66.2	64.9			2.09
	Hexachlorobenzene	48.1	39.5	46.2			15.6
	Hexazinone	70.2	77.2	75.9			1.59
	Imazalil	87.6	97.1	92.3			4.99
	Iprodione	89.0	62.4	77.0			20.8
	Kepone	99.0	81.0	91.0			11.7
	Lambda-Cyhalothrin	98.8	100	107			6.86
	Loratadine	117	88.0	123			33.4
	Malathion	79.5	74.2	79.0			6.34
	Metalaxyl	79.8	71.2	77.7			8.77
	Methoprene	106	97.1	93.3			3.97
	Methoxychlor	76.6	76.8	73.4			4.51
	Metolachlor	69.2	81.5	70.7			14.1
	Metribuzin	84.7	86.2	80.9			6.38
	Mevinphos	65.9	75.0	71.3			5.06
	MGK-264	111	106	96.6			9.54
	Mirex	67.6	46.8	56.8			19.2
	Molinate	42.2	52.5	42.0			22.2
	Myclobutanil	86.3	75.7	81.9			7.88
	Naled	59.1	43.6	51.3			16.4
	Napropamide	69.8	67.9	84.1			21.3
	Norflurazon	94.6	71.4	95.9			29.4
	Octinoxate	63.4	73.2	62.8			15.3
	Oxadiazon	61.8	60.6	61.7			1.81
	Oxybenzone	62.0	80.1	66.1			19.2
	Oxychlordane	87.3	68.4	78.0			13.1
	Oxyfluorfen	97.6	109	113			3.49
	Parathion Ethyl	62.5	71.4	73.7			3.18
	Parathion Methyl	70.0	65.5	77.8			17.2
	PBB-153	71.6	62.0	67.6			8.75
	PBDE-47	65.4	75.5	67.6			11.1
	PBDE-99	71.7	73.3	68.3			7.10
	PCB-1016	89.3	69.6	77.6			11.0
	PCB-1260	98.2	64.1	68.4			6.40
	Pendimethalin	86.3	101	95.2			5.86
	Pentabromotoluene	56.3	62.0	58.1			6.55
	Permethrin	107	97.8	86.9			11.8
	Phenothrin	93.1	70.7	88.5			22.4
	Phenytoin	30.2	29.7	43.8			38.4
	Phorate	67.6	115	112			2.45
	Piperonyl Butoxide	96.9	42.4	51.8			11.0
	Prallethrin	87.8	68.6	76.1			10.3
	Prodiamine	66.6	68.3	64.9			5.05

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Prometon	76.6	84.6	85.6			1.19
	Prometryn	88.8	111	96.6			13.7
	Pronamide	87.8	87.5	94.1			7.25
	Propanil	82.8	133	142			6.62
	Propargite	49.1	39.5	50.8			24.8
	Propiconazole	59.6	56.0	56.8			1.47
	Pyraflufen Ethyl	73.6	51.5	66.2			24.9
	Pyridaben	106	92.1	95.5			3.62
	Pyriproxyfen	65.0	58.5	73.9			23.2
	Simazine	68.5	76.6	72.0			6.23
	Stirophos	67.7	66.8	61.1			8.95
	Sulfentrazone	69.3	29.7	72.7			84.0
	Tau-Fluvalinate	101	124	151			19.6
	Tebuconazole	47.6	44.1	46.8			5.92
	Terbufos	62.3	75.6	66.3			13.1
	Terbuthylazine	70.0	71.6	73.0			2.02
	Tetradecachloro-m-terphenyl	62.0	73.6	63.8			14.3
	Tetramethrin	91.0	84.1	93.3			10.4
	Thiobencarb	101	86.5	89.3			3.18
	Trans-Nonachlor	81.8	53.0	58.0			9.09
	Tri-o-cresyl Phosphate	77.2	91.3	75.2			19.3
	Triadimefon	75.1	75.6	87.6			14.7
	Triclosan Methyl	67.5	41.9	44.7			6.54
	Trifluralin	95.0	77.4	81.8			5.53
	Tris(1-chloro-2-propyl) phosphate (TCPP)	64.2	73.6	64.3			13.4
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	74.6	85.7	75.3			13.0
	Tris(2-chloroethyl) phosphate (TCEP)	72.3	79.2	76.8			3.10
EPA 8276	Chlordane	122	94.2	83.3			12.3
	Toxaphene	125	107	98.6			8.11
EPA 8321B	2,4-D	79.2	81.8	85.6			4.55
	2,4,5-T	77.5	88.4	83.7			5.47
	3-Hydroxycarbofuran	81.4	23.1	65.2			95.2
	Acesulfame K	102	99.4	99.4			0.0326
	Acetaminophen	73.8	74.0	65.9			11.7
	Acetamiprid	83.9	69.3	71.4			2.98
	Afidopyropen	61.2	67.1	66.1			1.46
	Aldicarb	84.4	59.4	59.5			0.229
	Aldicarb Sulfone	87.1	68.1	67.6			0.811
	Aldicarb Sulfoxide	98.1	30.0	30.8			2.51
	AMPA	92.5	88.2	86.5			2.00
	Bentazon	81.5	81.0	92.4			13.2
	Benzovindiflupyr	80.7	79.2	80.9			2.11
	Carbamazepine	83.4	83.9	76.7			8.41
	Carbaryl	77.9	64.4	72.6			12.0
	Carbofuran	78.6	64.5	69.2			7.13
	Clothianidin	83.1	86.7	82.9			4.45
	Dinotefuran	90.5	94.4	91.3			3.42
	Diuron	87.2	83.5	82.2			1.58
	Endothall	83.1	94.0	89.4			4.92
	Fenuron	87.9	88.9	84.5			5.18
	Fluridone	88.6	90.7	83.1			8.79

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Glufosinate	86.4	78.3	85.9			9.28
	Glyphosate	88.3	83.2	85.1			2.13
	Hydrocodone	86.4	86.4	84.3			2.43
	Ibuprofen	47.3	59.1	63.6			7.40
	Imazapyr	78.8	85.4	86.8			1.17
	Imidacloprid	83.5	89.1	85.9			3.19
	Linuron	64.6	89.5	76.1			16.3
	Mandestrobin	72.2	71.6	76.5			6.61
	MCPP	78.5	81.0	83.2			2.65
	Methiocarb	68.0	59.8	68.2			13.2
	Methomyl	86.4	67.6	67.8			0.330
	Naproxen	65.6	83.0	95.8			14.3
	Oxamyl	86.6	71.1	70.3			1.09
	Primidone	75.7	85.5	76.1			11.6
	Propoxur	71.9	63.9	66.0			3.18
	Pyraclostrobin	76.4	83.1	82.0			1.38
	Silvex	74.0	77.1	74.0			4.15
	Sucralose	118	112	116			2.94
	Thiamethoxam	87.0	84.4	78.3			7.51
	Tolfenpyrad	54.1	54.6	54.8			0.361
	Triclopyr	80.3	88.4	78.7			11.7
SM 2320 B-2011	Total Alkalinity	98.9				4.41	
	Total Alkalinity	98.5				0.494	
SM 2540 C-2015	TDS	101				3.49	
SM 2540 D-2015	TSS	108					
SM 4500-F- C-2011	Fluoride	100	94.9	98.2			1.92
	Fluoride	100	97.6	96.0			1.48
SM 5310 B-2014	Organic Carbon	93.5	101	103			1.23

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2471092, 2471094, 2471095
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2471092, 2471094, 2471095
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2471112, 2471113
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2471112, 2471113
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2471092, 2471094, 2471095
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2471092, 2471094, 2471095
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2471093, 2471096, 2471097
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2471093, 2471096, 2471097
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2471093, 2471096, 2471097
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2471093, 2471096, 2471097
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2471108, 2471109
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2471107
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2471108, 2471109
EPA 8270E	PCBs in water matrices by GC/MS/MS	2471107
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2471107
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2471105
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2471106
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2471092, 2471094, 2471095

Reference Method Descriptions

Method	Description	Associated Samples
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2471112
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2471092, 2471094, 2471095
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2471092, 2471094, 2471095
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2471092, 2471094, 2471095
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2471093, 2471096, 2471097

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	02/22/2024			02/22/2024 14:39	Jessica K Wilks	2471092, 2471094
	02/22/2024			02/22/2024 15:55	Jessica K Wilks	2471095
EPA 180.1 Rev. 2.0	02/22/2024			02/22/2024 15:15	Dipa Joshi	2471092
	02/22/2024			02/22/2024 15:17	Dipa Joshi	2471094
	02/22/2024			02/22/2024 15:18	Dipa Joshi	2471095
EPA 200.7 Rev. 4.4	02/22/2024	02/27/2024 11:40	George D Taylor	03/07/2024 15:40	Conrad Hartmann	2471113
	02/22/2024	02/27/2024 11:40	George D Taylor	03/07/2024 19:46	Conrad Hartmann	2471112
EPA 200.8 Rev. 5.4	02/22/2024	02/27/2024 11:40	George D Taylor	02/28/2024 13:36	Emily M Philpot	2471113
	02/22/2024	02/27/2024 11:40	George D Taylor	02/29/2024 17:24	Emily M Philpot	2471113
	02/22/2024	02/27/2024 11:40	George D Taylor	02/29/2024 18:08	Emily M Philpot	2471112
	02/22/2024	02/27/2024 11:40	George D Taylor	03/04/2024 21:01	Emily M Philpot	2471112
EPA 300.0 Rev. 2.1	02/22/2024			02/29/2024 22:42	James L Waggerby	2471092
	02/22/2024			02/29/2024 22:57	James L Waggerby	2471094
	02/22/2024			02/29/2024 23:42	James L Waggerby	2471095
EPA 350.1 Rev. 2.0	02/22/2024			02/28/2024 11:59	Khloe J Berg	2471096
	02/22/2024			02/28/2024 12:03	Khloe J Berg	2471097
	02/22/2024			02/28/2024 13:49	Khloe J Berg	2471093
EPA 351.2 Rev. 2.0	02/22/2024	02/23/2024 10:59	Samantha L Bates	02/26/2024 15:42	Samantha L Bates	2471093
	02/22/2024	02/23/2024 10:59	Samantha L Bates	02/26/2024 15:43	Samantha L Bates	2471096
	02/22/2024	02/26/2024 11:55	Simonne.V. Calhoun	02/27/2024 15:05	Robyn Blevins	2471097
EPA 353.2 Rev. 2.0	02/22/2024			02/26/2024 14:05	Fadila Guebre	2471093
	02/22/2024			02/26/2024 14:06	Fadila Guebre	2471097
	02/22/2024			02/26/2024 14:11	Fadila Guebre	2471096
EPA 365.1 Rev. 2.0	02/22/2024	02/26/2024 13:52	Josephine W Gitau	02/27/2024 11:52	Simonne.V. Calhoun	2471093
	02/22/2024	02/26/2024 13:52	Josephine W Gitau	02/27/2024 11:53	Simonne.V. Calhoun	2471096
	02/22/2024	02/26/2024 13:52	Josephine W Gitau	02/27/2024 11:54	Simonne.V. Calhoun	2471097
EPA 8270E	02/22/2024	02/26/2024 07:50	Rasheda Ghaffari	02/28/2024 21:31	Vandana T. Nagar	2471108
	02/22/2024	02/26/2024 07:50	Rasheda Ghaffari	02/28/2024 21:59	Vandana T. Nagar	2471109
	02/22/2024	02/26/2024 07:50	Rasheda Ghaffari	02/28/2024 22:27	Arthur Maknenko	2471108
	02/22/2024	02/26/2024 07:50	Rasheda Ghaffari	02/28/2024 22:53	Arthur Maknenko	2471109
	02/22/2024	02/28/2024 08:00	Rasheda Ghaffari	03/07/2024 21:51	Vandana T. Nagar	2471107
	02/22/2024	02/28/2024 08:00	Rasheda Ghaffari	03/09/2024 15:22	Julie Wi	2471107
	02/22/2024	02/28/2024 08:00	Rasheda Ghaffari	03/13/2024 02:04	Julie Wi	2471107
EPA 8276	02/22/2024	02/28/2024 08:00	Rasheda Ghaffari	03/05/2024 03:04	Kenedi Mills	2471107
EPA 8321B	02/22/2024	02/26/2024 09:00	Hoor Shaik	03/01/2024 13:44	Juyoung Kim	2471106
	02/22/2024	02/27/2024 07:30	Tae K Lee	02/27/2024 10:44	Tae K Lee	2471106
	02/22/2024	02/27/2024 07:30	Tae K Lee	02/27/2024 21:59	Tae K Lee	2471106
	02/22/2024	02/27/2024 09:00	Hoor Shaik	03/01/2024 07:48	Juyoung Kim	2471105
SM 2320 B-2011	02/22/2024			03/01/2024 18:23	Dale L. Simmons	2471095
	02/22/2024			03/01/2024 21:52	Dale L. Simmons	2471094

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2320 B-2011	02/22/2024			03/05/2024 20:20	Adam P Silver	2471092
SM 2340 B-2011	02/22/2024			03/07/2024 19:46	Conrad Hartmann	2471112
SM 2540 C-2015	02/22/2024			02/26/2024 15:21	Yijie Li	2471092, 2471094, 2471095
SM 2540 D-2015	02/22/2024			02/26/2024 15:21	Yijie Li	2471092, 2471094, 2471095
SM 4500-F- C-2011	02/22/2024			03/01/2024 18:23	Dale L. Simmons	2471095
	02/22/2024			03/01/2024 21:52	Dale L. Simmons	2471094
	02/22/2024			03/05/2024 20:20	Adam P Silver	2471092
SM 5310 B-2014	02/22/2024			02/26/2024 15:24	Khloe J Berg	2471093
	02/22/2024			02/26/2024 15:38	Khloe J Berg	2471096
	02/22/2024			02/26/2024 15:52	Khloe J Berg	2471097