

Chemical Analysis Report

SW-DIST-2022-05-19-01

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

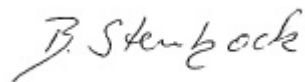
Event Description: **LVI's x2**
Request ID: **RQ-2022-05-16-27**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
Attn: Ben Paswater

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 10-JUN-2022 16:22



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: Reclaimed Mine Cut Lake SE

Collection Date/Time: 05/18/2022 14:30

Field ID: G3SW0074

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2328416	DEP SOP: NU-094-1	Color (true)**	15	A	PCU	P414128	
	EPA 180.1 Rev. 2.0	Turbidity	8.8		NTU	P414121	
	EPA 300.0 Rev. 2.1	Chloride	14		mg Cl/L	P414292	
		Sulfate	0.20	U	mg SO4/L	P414296	
	SM 2320 B-2011	Total Alkalinity	64		mg CaCO3/L	P414260	
	SM 2540 C-2011	TDS	98		mg/L	P414428	
	SM 2540 D-2011	TSS	13	I	mg/L	P414452	
	SM 4500-F- C-2011	Fluoride	1.1		mg F/L	P414266	
2328418	EPA 350.1 Rev. 2.0	Ammonia-N	0.022		mg N/L	P414449	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.7		mg N/L	P414559	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	I	mg N/L	P414435	
	EPA 365.1 Rev. 2.0	Total-P	0.17		mg P/L	P414401	
	SM 5310 B-2011	Organic Carbon	9.9		mg C/L	P414460	
2328420	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.034		mg P/L	P414115	
2328431	EPA 8321B	Aldicarb	0.020	U	ug/L	P414165	
		Aldicarb Sulfone	0.0020	U	ug/L	P414165	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P414165	
		Carbaryl	0.0020	U	ug/L	P414165	
		Carbofuran	0.0020	U	ug/L	P414165	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P414165	
		Methiocarb	0.0020	U	ug/L	P414165	
		Methomyl	0.0020	U	ug/L	P414165	
		Oxamyl	0.0020	U	ug/L	P414165	
		Propoxur	0.0020	U	ug/L	P414165	
2328433		2,4-D	0.035		ug/L	P414017	
		Acesulfame K	0.10	U	ug/L	P414089	
		2,4,5-T	0.0040	U	ug/L	P414017	
		AMPA	0.10	U	ug/L	P414089	
		Acetaminophen	0.0080	U	ug/L	P414017	
		Acetamiprid	0.0020	U	ug/L	P414017	
		Endothall	0.25	U	ug/L	P414089	
		Glufosinate	0.10	U	ug/L	P414089	
		Glyphosate	0.18	I	ug/L	P414089	
		Afidopyropen	0.0020	U	ug/L	P414017	
		Sucralose	0.010	U	ug/L	P414089	
		Bentazon	8.0E-04	U	ug/L	P414017	MS
		Benzovindiflupyr	0.0020	U	ug/L	P414017	
		Carbamazepine	8.0E-04	U	ug/L	P414017	
		Clothianidin	0.0020	U	ug/L	P414017	
		Dinotefuran	0.0020	U	ug/L	P414017	
		Diuron	0.011		ug/L	P414017	
		Fenuron	0.032	U	ug/L	P414017	
		Fluridone	8.0E-04	U	ug/L	P414017	

Field ID: G3SW0074

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2328433	EPA 8321B	Imazapyr	0.0040	U	ug/L	P414017	
		Hydrocodone	0.0020	U	ug/L	P414017	
		Ibuprofen	0.020	U	ug/L	P414017	
		Imidacloprid	0.0020	U	ug/L	P414017	
		Linuron	0.0040	U	ug/L	P414017	
		Mandestrobin	0.0020	U	ug/L	P414017	
		MCP	0.0040	U	ug/L	P414017	
		Naproxen	0.0080	U	ug/L	P414017	
		Primidone	0.0040	U	ug/L	P414017	
		Pyraclostrobin	0.0020	U	ug/L	P414017	
		Silvex	0.0040	U	ug/L	P414017	
		Thiamethoxam	0.0020	U	ug/L	P414017	
		Tolfenpyrad	0.0020	U	ug/L	P414017	
		Triclopyr	0.0040	U	ug/L	P414017	
2328441	EPA 8270E	Aldrin	0.67	U	ng/L	P414168	
		Alpha-BHC	0.10	U	ng/L	P414168	
		Alpha-Chlordane	0.21	U	ng/L	P414168	
		PCB-1016	2.1	UJ	ng/L	P414168	LCS, MS
		Beta-BHC	0.10	U	ng/L	P414168	
		PCB-1221	2.1	U	ng/L	P414168	
		Beta-Cyfluthrin**	1.3	U	ng/L	P414168	
		PCB-1232	2.1	U	ng/L	P414168	
		Bifenthrin**	0.51	U	ng/L	P414168	
		PCB-1242	2.1	U	ng/L	P414168	
		PCB-1248	2.1	U	ng/L	P414168	
		Chlorothalonil	1.3	U	ng/L	P414168	
		PCB-1254	2.1	U	ng/L	P414168	
		Cis-Nonachlor**	0.21	U	ng/L	P414168	
		PCB-1260	2.1	U	ng/L	P414168	
		Cypermethrin	1.5	U	ng/L	P414168	
		Dacthal**	0.15	U	ng/L	P414168	
		DDD-p,p'	0.26	U	ng/L	P414168	
		DDE-p,p'	0.21	U	ng/L	P414168	
		DDT-p,p'	0.26	U	ng/L	P414168	
		Delta-BHC	0.41	U	ng/L	P414168	
		Deltamethrin**	1.3	U	ng/L	P414168	
		Dichlobenil**	0.26	U	ng/L	P414168	
		Dicofol	1.3	U	ng/L	P414168	
		Dieldrin	0.41	U	ng/L	P414168	
		Endosulfan I	0.41	U	ng/L	P414168	
		Endosulfan II	0.41	U	ng/L	P414168	
		Endosulfan Sulfate	0.31	U	ng/L	P414168	
		Endrin	0.41	U	ng/L	P414168	
		Endrin Aldehyde	0.77	U	ng/L	P414168	
		Endrin Ketone	0.41	U	ng/L	P414168	RPD

Field ID: G3SW0074

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2328441	EPA 8270E	Esfenvalerate**	0.77	U	ng/L	P414168	MS CCV, RPD
		Ethalfiuralin**	0.15	U	ng/L	P414168	
		Fenpropathrin**	0.26	U	ng/L	P414168	
		Gamma-BHC	0.13	U	ng/L	P414168	
		Gamma-Chlordane	0.21	U	ng/L	P414168	
		Heptachlor	0.21	U	ng/L	P414168	
		Heptachlor Epoxide	0.26	U	ng/L	P414168	
		Hexachlorobenzene**	1.0	U	ng/L	P414168	
		Kepone**	5.1	UJ	ng/L	P414168	
		Lambda-Cyhalothrin**	0.77	U	ng/L	P414168	
		Methoprene**	0.77	U	ng/L	P414168	
		Methoxychlor	0.31	U	ng/L	P414168	
		MGK-264**	0.33	I	ng/L	P414168	
		Mirex	0.72	U	ng/L	P414168	
		Oxychlordane**	0.31	U	ng/L	P414168	
		Permethrin	1.6	U	ng/L	P414168	
		Phenothrin**	0.93	U	ng/L	P414168	
		Piperonyl Butoxide**	0.26	I	ng/L	P414168	
		Prallethrin**	2.1	U	ng/L	P414168	
		Tau-Fluvalinate**	0.26	U	ng/L	P414168	
		Tetramethrin**	0.77	U	ng/L	P414168	
		Trans-Nonachlor**	0.21	U	ng/L	P414168	
		Triclosan Methyl**	0.15	U	ng/L	P414168	
		Trifluralin	0.21	U	ng/L	P414168	
	EPA 8276	Chlordane	2.6	U	ng/L	P414168	
		Toxaphene	15	U	ng/L	P414168	
2328443	EPA 8270E	Oxybenzone**	10	U	ng/L	P414133	
		Acetochlor	0.26	U	ng/L	P414133	
		Octinoxate**	68		ng/L	P414133	
		Alachlor	0.26	U	ng/L	P414133	
		Avobenzone**	100	U	ng/L	P414133	
		Ametryn	0.62	U	ng/L	P414133	
		Atrazine	98		ng/L	P414133	
		Atrazine Desethyl	16		ng/L	P414133	
		Azinphos Methyl	2.1	U	ng/L	P414133	
		Azoxystrobin**	0.52	U	ng/L	P414133	
		Bromacil	2.8		ng/L	P414133	
		Butylate	0.42	U	ng/L	P414133	
		Caffeine**	33		ng/L	P414133	
		Carbophenothion	0.21	U	ng/L	P414133	
		Carfentrazone Ethyl**	0.11	I	ng/L	P414133	
		Chlorfenapyr**	0.18	U	ng/L	P414133	
		Chlorpyrifos Ethyl	0.26	U	ng/L	P414133	
		Chlorpyrifos Methyl	0.052	U	ng/L	P414133	
		Coumaphos**	0.52	U	ng/L	P414133	

Field ID: G3SW0074

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2328443	EPA 8270E	Cyanazine	3.4	U	ng/L	P414133	
		Cyprodinil**	0.10	U	ng/L	P414133	
		Demeton	1.6	U	ng/L	P414133	
		Diazinon	0.13	U	ng/L	P414133	
		Difenoconazole**	0.71	I	ng/L	P414133	
		Dimethenamid**	0.10	U	ng/L	P414133	
		Dimethomorph**	0.18	U	ng/L	P414133	
		Disulfoton	0.52	U	ng/L	P414133	
		Dithiopyr**	0.18	U	ng/L	P414133	
		EPTC	1.3	U	ng/L	P414133	
		Ethion	0.16	U	ng/L	P414133	
		Ethoprop	0.10	U	ng/L	P414133	
		Etridiazole**	0.16	U	ng/L	P414133	
		Fenamiphos	0.52	U	ng/L	P414133	
		Fenbuconazole**	0.35	I	ng/L	P414133	
		Fipronil	0.26	U	ng/L	P414133	
		Fipronil Desulfinyl**	0.13	U	ng/L	P414133	
		Fipronil Sulfide	0.16	U	ng/L	P414133	
		Fipronil Sulfone	0.16	U	ng/L	P414133	
		Fluazifop-P-butyl**	0.10	U	ng/L	P414133	
		Fludioxonil**	0.13	U	ng/L	P414133	
		Flumioxazin**	1.8	U	ng/L	P414133	
		Flutolanil**	0.26	I	ng/L	P414133	
		Fluxapyroxad**	0.59		ng/L	P414133	
		Fonofos	0.21	U	ng/L	P414133	
		Hexazinone	0.71	I	ng/L	P414133	
		Imazalil**	0.78	U	ng/L	P414133	
		Iprodione**	0.62	U	ng/L	P414133	
		Loratadine**	0.19	I	ng/L	P414133	
		Malathion	0.36	U	ng/L	P414133	
		Metalaxyl	0.78	U	ng/L	P414133	
		Metolachlor	0.61	I	ng/L	P414133	
		Metribuzin	2.6	U	ng/L	P414133	
		Mevinphos	1.1	U	ng/L	P414133	
		Molinate	0.31	U	ng/L	P414133	
		Myclobutanil**	0.26	U	ng/L	P414133	
		Naled**	1.6	U	ng/L	P414133	
		Napropamide**	0.42	U	ng/L	P414133	
		Norflurazon	0.52	U	ng/L	P414133	
		Oxadiazon	0.34	I	ng/L	P414133	
		Oxyfluorfen**	0.16	U	ng/L	P414133	
		Parathion Ethyl	0.26	U	ng/L	P414133	
		Parathion Methyl	0.57	U	ng/L	P414133	
		Pendimethalin	1.0	U	ng/L	P414133	
		Phenytol**	3.6	U	ng/L	P414133	

Field ID: G3SW0074

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2328443	EPA 8270E	Phorate	0.55	U	ng/L	P414133	
		Prodiamine**	0.18	U	ng/L	P414133	
		Prometon	0.93	U	ng/L	P414133	
		Prometryn	0.21	U	ng/L	P414133	
		Pronamide**	0.16	U	ng/L	P414133	
		Propanil**	0.13	U	ng/L	P414133	
		Propargite**	1.6	U	ng/L	P414133	
		Propiconazole**	0.52	U	ng/L	P414133	
		Pyraflufen Ethyl**	0.26	U	ng/L	P414133	
		Pyridaben**	0.47	U	ng/L	P414133	
		Pyriproxyfen**	0.13	U	ng/L	P414133	
		Simazine	0.52	U	ng/L	P414133	
		Stirophos**	0.13	U	ng/L	P414133	
		Sulfentrazone**	0.52	U	ng/L	P414133	
		Tebuconazole**	6.3		ng/L	P414133	
		Terbufos	0.10	U	ng/L	P414133	
		Terbutylazine	0.44	U	ng/L	P414133	
		Thiobencarb**	0.62	U	ng/L	P414133	
		Triadimefon**	0.26	U	ng/L	P414133	
2328445	EPA 200.7 Rev. 4.4	Calcium	21.8		mg/L	P414132	
		Iron	64	I	ug/L	P414132	
		Magnesium	5.87		mg/L	P414132	
		Potassium	1.9		mg/L	P414132	
		Sodium	8.8		mg/L	P414132	
		Strontium	7.9	I	ug/L	P414132	
		Tin	3.0	U	ug/L	P414132	
		Titanium	1.1	I	ug/L	P414132	
		Vanadium	2.0	U	ug/L	P414132	
		Zinc	5.0	U	ug/L	P414132	
	EPA 200.8 Rev. 5.4	Aluminum	160		ug/L	P414132	
		Antimony	0.086	I	ug/L	P414132	
		Arsenic	3.46		ug/L	P414132	
		Barium	1.10		ug/L	P414132	
		Beryllium	0.010	U	ug/L	P414132	
		Boron**	19.7		ug/L	P414132	
		Cadmium	0.020	U	ug/L	P414132	
		Chromium	0.40	U	ug/L	P414132	
		Cobalt	0.048	I	ug/L	P414132	
		Copper	0.84		ug/L	P414132	
		Lead	0.20	U	ug/L	P414132	
		Manganese	10.6		ug/L	P414132	
		Molybdenum	0.15	U	ug/L	P414132	
		Nickel	0.50	U	ug/L	P414132	
		Selenium	0.20	U	ug/L	P414132	
		Silver	0.010	U	ug/L	P414132	

Field ID: G3SW0074

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2328445	EPA 200.8 Rev. 5.4	Thallium	0.10	U	ug/L	P414132	
	SM 2340 B-2011	Hardness	78.7		mg/L	P414132	

Ref. Method and Comment:
SM 2540 D-2011: 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.

Sample Location: Lake Beulah SW

Collection Date/Time: 05/18/2022 12:50

Field ID: G2SW0053

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2328417	DEP SOP: NU-094-1	Color (true)**	12		PCU	P414128	
	EPA 180.1 Rev. 2.0	Turbidity	4.0		NTU	P414121	
	EPA 300.0 Rev. 2.1	Chloride	3.8		mg Cl/L	P414292	
		Sulfate	2.3		mg SO4/L	P414296	
	SM 2320 B-2011	Total Alkalinity	43		mg CaCO3/L	P414260	
	SM 2540 C-2011	TDS	64		mg/L	P414428	
	SM 2540 D-2011	TSS	10		mg/L	P414452	
	SM 4500-F- C-2011	Fluoride	0.23		mg F/L	P414266	
2328419	EPA 350.1 Rev. 2.0	Ammonia-N	0.010		mg N/L	P414449	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.66		mg N/L	P414560	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P414435	
	EPA 365.1 Rev. 2.0	Total-P	0.027		mg P/L	P414401	
	SM 5310 B-2011	Organic Carbon	6.3		mg C/L	P414460	
2328421	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P414115	
2328432	EPA 8321B	Aldicarb	0.020	U	ug/L	P414165	
		Aldicarb Sulfone	0.0020	U	ug/L	P414165	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P414165	
		Carbaryl	0.0020	U	ug/L	P414165	
		Carbofuran	0.0020	U	ug/L	P414165	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P414165	
		Methiocarb	0.0020	U	ug/L	P414165	
		Methomyl	0.0020	U	ug/L	P414165	
		Oxamyl	0.0020	U	ug/L	P414165	
		Propoxur	0.0020	U	ug/L	P414165	
2328434		2,4-D	0.20		ug/L	P414017	
		Acesulfame K	0.10	U	ug/L	P414089	
		2,4,5-T	0.0040	U	ug/L	P414017	
		AMPA	0.10	U	ug/L	P414089	
		Acetaminophen	0.0080	U	ug/L	P414017	
		Acetamiprid	0.0020	U	ug/L	P414017	
		Endothall	0.25	U	ug/L	P414089	
		Glufosinate	0.10	U	ug/L	P414089	
		Glyphosate	0.63		ug/L	P414089	
		Afidopyropen	0.0020	U	ug/L	P414017	
		Sucralose	0.045		ug/L	P414089	
		Bentazon	8.0E-04	U	ug/L	P414017	MS
		Benzovindiflupyr	0.0020	U	ug/L	P414017	
		Carbamazepine	8.0E-04	U	ug/L	P414017	
		Clothianidin	0.0020	U	ug/L	P414017	
		Dinotefuran	0.0020	U	ug/L	P414017	
		Diuron	0.0020	U	ug/L	P414017	
		Fenuron	0.032	U	ug/L	P414017	
		Fluridone	8.0E-04	U	ug/L	P414017	

Field ID: G2SW0053

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2328434	EPA 8321B	Imazapyr	0.0040	U	ug/L	P414017	
		Hydrocodone	0.0020	U	ug/L	P414017	
		Ibuprofen	0.020	U	ug/L	P414017	
		Imidacloprid	0.0020	U	ug/L	P414017	
		Linuron	0.0040	U	ug/L	P414017	
		Mandestrobin	0.0020	U	ug/L	P414017	
		MCP	0.0067	I	ug/L	P414017	
		Naproxen	0.0080	U	ug/L	P414017	
		Primidone	0.0040	U	ug/L	P414017	
		Pyraclostrobin	0.0020	U	ug/L	P414017	
		Silvex	0.0040	U	ug/L	P414017	
		Thiamethoxam	0.0020	U	ug/L	P414017	
		Tolfenpyrad	0.0020	U	ug/L	P414017	
		Triclopyr	0.0040	U	ug/L	P414017	
2328442	EPA 8270E	Aldrin	0.71	U	ng/L	P414168	
		Alpha-BHC	0.11	U	ng/L	P414168	
		Alpha-Chlordane	0.22	U	ng/L	P414168	
		PCB-1016	2.2	UJ	ng/L	P414168	LCS, MS
		Beta-BHC	0.11	U	ng/L	P414168	
		PCB-1221	2.2	U	ng/L	P414168	
		Beta-Cyfluthrin**	1.4	U	ng/L	P414168	
		PCB-1232	2.2	U	ng/L	P414168	
		Bifenthrin**	0.55	U	ng/L	P414168	
		PCB-1242	2.2	U	ng/L	P414168	
		PCB-1248	2.2	U	ng/L	P414168	
		Chlorothalonil	1.4	U	ng/L	P414168	
		PCB-1254	2.2	U	ng/L	P414168	
		Cis-Nonachlor**	0.22	U	ng/L	P414168	
		PCB-1260	2.2	U	ng/L	P414168	
		Cypermethrin	1.6	U	ng/L	P414168	
		Dacthal**	0.16	U	ng/L	P414168	
		DDD-p,p'	0.27	U	ng/L	P414168	
		DDE-p,p'	0.22	U	ng/L	P414168	
		DDT-p,p'	0.27	U	ng/L	P414168	
		Delta-BHC	0.44	U	ng/L	P414168	
		Deltamethrin**	1.4	U	ng/L	P414168	
		Dichlobenil**	0.27	U	ng/L	P414168	
		Dicofol	1.4	U	ng/L	P414168	
		Dieldrin	0.44	U	ng/L	P414168	
		Endosulfan I	0.44	U	ng/L	P414168	
		Endosulfan II	0.44	U	ng/L	P414168	
		Endosulfan Sulfate	0.33	U	ng/L	P414168	
		Endrin	0.44	U	ng/L	P414168	
		Endrin Aldehyde	0.82	U	ng/L	P414168	
		Endrin Ketone	0.44	UJ	ng/L	P414168	RPD

Field ID: G2SW0053

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2328442	EPA 8270E	Esfenvalerate**	0.82	U	ng/L	P414168	MS CCV, RPD
		Ethalfiuralin**	0.16	U	ng/L	P414168	
		Fenpropathrin**	0.27	U	ng/L	P414168	
		Gamma-BHC	0.14	U	ng/L	P414168	
		Gamma-Chlordane	0.26	I	ng/L	P414168	
		Heptachlor	0.22	U	ng/L	P414168	
		Heptachlor Epoxide	0.27	UJ	ng/L	P414168	
		Hexachlorobenzene**	1.1	U	ng/L	P414168	
		Kepone**	5.5	UJ	ng/L	P414168	
		Lambda-Cyhalothrin**	0.82	U	ng/L	P414168	
		Methoprene**	0.82	U	ng/L	P414168	
		Methoxychlor	0.33	U	ng/L	P414168	
		MGK-264**	0.51	I	ng/L	P414168	
		Mirex	0.77	U	ng/L	P414168	
		Oxychlordane**	0.33	U	ng/L	P414168	
		Permethrin	1.8	U	ng/L	P414168	
		Phenothrin**	0.98	U	ng/L	P414168	
		Piperonyl Butoxide**	1.3		ng/L	P414168	
		Prallethrin**	2.2	U	ng/L	P414168	
		Tau-Fluvalinate**	0.27	U	ng/L	P414168	
		Tetramethrin**	0.82	U	ng/L	P414168	
		Trans-Nonachlor**	0.22	U	ng/L	P414168	
		Triclosan Methyl**	0.16	U	ng/L	P414168	
		Trifluralin	0.22	U	ng/L	P414168	
	EPA 8276	Chlordane	2.7	U	ng/L	P414168	
	Toxaphene	16	U	ng/L	P414168		
2328444	EPA 8270E	Oxybenzone**	11	U	ng/L	P414133	
		Acetochlor	0.26	U	ng/L	P414133	
		Octinoxate**	25	I	ng/L	P414133	
		Alachlor	0.26	U	ng/L	P414133	
		Avobenzone**	110	U	ng/L	P414133	
		Ametryn	0.63	U	ng/L	P414133	
		Atrazine	17		ng/L	P414133	
		Atrazine Desethyl	3.9	I	ng/L	P414133	
		Azinphos Methyl	2.1	U	ng/L	P414133	
		Azoxystrobin**	0.53	U	ng/L	P414133	
		Bromacil	0.53	U	ng/L	P414133	
		Butylate	0.42	U	ng/L	P414133	
		Caffeine**	52		ng/L	P414133	
		Carbophenothion	0.21	U	ng/L	P414133	
		Carfentrazone Ethyl**	0.11	U	ng/L	P414133	
		Chlorfenapyr**	0.18	U	ng/L	P414133	
		Chlorpyrifos Ethyl	0.26	U	ng/L	P414133	
		Chlorpyrifos Methyl	0.053	U	ng/L	P414133	
		Coumaphos**	0.53	U	ng/L	P414133	

Field ID: G2SW0053

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2328444	EPA 8270E	Cyanazine	3.4	U	ng/L	P414133	
		Cyprodinil**	0.11	U	ng/L	P414133	
		Demeton	1.6	U	ng/L	P414133	
		Diazinon	0.13	U	ng/L	P414133	
		Difenoconazole**	0.63	U	ng/L	P414133	
		Dimethenamid**	0.11	U	ng/L	P414133	
		Dimethomorph**	0.18	U	ng/L	P414133	
		Disulfoton	0.53	U	ng/L	P414133	
		Dithiopyr**	0.18	U	ng/L	P414133	
		EPTC	1.3	U	ng/L	P414133	
		Ethion	0.16	U	ng/L	P414133	
		Ethoprop	0.11	U	ng/L	P414133	
		Etridiazole**	0.16	U	ng/L	P414133	
		Fenamiphos	0.53	U	ng/L	P414133	
		Fenbuconazole**	0.13	U	ng/L	P414133	
		Fipronil	0.26	U	ng/L	P414133	
		Fipronil DesulfinyI**	0.23	I	ng/L	P414133	
		Fipronil Sulfide	0.16	U	ng/L	P414133	
		Fipronil Sulfone	0.18	I	ng/L	P414133	
		Fluazifop-P-butyl**	0.11	U	ng/L	P414133	
		Fludioxonil**	0.13	U	ng/L	P414133	
		Flumioxazin**	1.8	U	ng/L	P414133	
		Flutolanil**	0.11	U	ng/L	P414133	
		Fluxapyroxad**	0.39	I	ng/L	P414133	
		Fonofos	0.21	U	ng/L	P414133	
		Hexazinone	0.53	U	ng/L	P414133	
		Imazalil**	0.79	U	ng/L	P414133	
		Iprodione**	0.63	U	ng/L	P414133	
		Loratadine**	0.11	U	ng/L	P414133	
		Malathion	0.37	U	ng/L	P414133	
		Metalaxyl	1.1	I	ng/L	P414133	
		Metolachlor	0.59	I	ng/L	P414133	
		Metribuzin	2.6	U	ng/L	P414133	
		Mevinphos	1.1	U	ng/L	P414133	
		Molinate	0.32	U	ng/L	P414133	
		Myclobutanil**	0.26	U	ng/L	P414133	
		Naled**	1.6	U	ng/L	P414133	
		Napropamide**	0.42	U	ng/L	P414133	
		Norflurazon	0.53	U	ng/L	P414133	
		Oxadiazon	0.51	I	ng/L	P414133	
		Oxyfluorfen**	0.16	U	ng/L	P414133	
		Parathion Ethyl	0.26	U	ng/L	P414133	
		Parathion Methyl	0.58	U	ng/L	P414133	
		Pendimethalin	1.1	U	ng/L	P414133	
		Phenytain**	3.7	U	ng/L	P414133	

Field ID: G2SW0053

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2328444	EPA 8270E	Phorate	0.55	U	ng/L	P414133	
		Prodiamine**	0.18	U	ng/L	P414133	
		Prometon	0.95	U	ng/L	P414133	
		Prometryn	0.21	U	ng/L	P414133	
		Pronamide**	0.16	U	ng/L	P414133	
		Propanil**	0.13	U	ng/L	P414133	
		Propargite**	1.6	U	ng/L	P414133	
		Propiconazole**	0.53	U	ng/L	P414133	
		Pyraflufen Ethyl**	0.26	U	ng/L	P414133	
		Pyridaben**	0.47	U	ng/L	P414133	
		Pyriproxyfen**	0.13	U	ng/L	P414133	
		Simazine	0.53	U	ng/L	P414133	
		Stirophos**	0.13	U	ng/L	P414133	
		Sulfentrazone**	0.53	U	ng/L	P414133	
		Tebuconazole**	0.90	I	ng/L	P414133	
		Terbufos	0.11	U	ng/L	P414133	
		Terbutylazine	0.45	U	ng/L	P414133	
		Thiobencarb**	0.63	U	ng/L	P414133	
		Triadimefon**	0.26	U	ng/L	P414133	
2328446	EPA 200.7 Rev. 4.4	Calcium	17.4		mg/L	P414132	
		Iron	35	I	ug/L	P414132	
		Magnesium	1.46		mg/L	P414132	
		Potassium	0.65	I	mg/L	P414132	
		Sodium	2.9		mg/L	P414132	
		Strontium	36.4		ug/L	P414132	
		Tin	3.0	U	ug/L	P414132	
		Titanium	0.98	I	ug/L	P414132	
		Vanadium	2.0	U	ug/L	P414132	
		Zinc	5.0	U	ug/L	P414132	
	EPA 200.8 Rev. 5.4	Aluminum	47		ug/L	P414132	
		Antimony	0.34		ug/L	P414132	
		Arsenic	0.82		ug/L	P414132	
		Barium	8.01		ug/L	P414132	
		Beryllium	0.010	U	ug/L	P414132	
		Boron**	143		ug/L	P414132	
		Cadmium	0.020	U	ug/L	P414132	
		Chromium	0.40	U	ug/L	P414132	
		Cobalt	0.023	I	ug/L	P414132	
		Copper	0.57	I	ug/L	P414132	
		Lead	0.53		ug/L	P414132	
		Manganese	2.23		ug/L	P414132	
		Molybdenum	1.04		ug/L	P414132	
		Nickel	0.50	U	ug/L	P414132	
		Selenium	0.20	U	ug/L	P414132	
		Silver	0.010	U	ug/L	P414132	

Field ID: G2SW0053

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2328446	EPA 200.8 Rev. 5.4	Thallium	0.10	U	ug/L	P414132	
	SM 2340 B-2011	Hardness	49.5		mg/L	P414132	

Ref. Method and Comment:
SM 2540 D-2011: 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.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P414128

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P414121

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P414132

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

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P414132

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P414292

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P414296

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P414449

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414559

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414560

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P414435

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P414401

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P414115

Component	Result	Code	Units
O-Phosphate-P	0.004	U	mg P/L

Reference Method: EPA 8270E
Batch ID: P414133

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P414133

Component	Result	Code	Units
Avobenzene	100	U	ng/L
Avobenzene	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P414133

Component	Result	Code	Units
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metaxyl	0.75	U	ng/L
Metaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P414133

Component	Result	Code	Units
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiatone	0.18	U	ng/L
Prodiatone	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L
Terbutylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P414168

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P414168

Component	Result	Code	Units
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.70	U	ng/L
Mirex	0.70	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P414168

Component	Result	Code	Units
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276

Batch ID: P414168

Component	Result	Code	Units
Chlordane	2.5	U	ng/L
Chlordane	2.5	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: EPA 8321B

Batch ID: P414017

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	0.020	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	0.0040	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B

Batch ID: P414089

Component	Result	Code	Units
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Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P414089

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

Reference Method: EPA 8321B

Batch ID: P414165

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

Reference Method: SM 2320 B-2011

Batch ID: P414260

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

Reference Method: SM 2540 C-2011

Batch ID: P414428

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011

Batch ID: P414452

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P414266

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P414460

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: P414128

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.4		P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P414121

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	97.1		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P414132

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	102		P	85 - 115
Iron	102		P	85 - 115
Magnesium	103		P	85 - 115
Potassium	103		P	85 - 115
Sodium	101		P	85 - 115
Strontium	101		P	85 - 115
Tin	104		P	85 - 115
Titanium	101		P	85 - 115
Vanadium	93.1		P	85 - 115
Zinc	100		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P414132

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	100		P	85 - 115
Antimony	97.6		P	85 - 115
Arsenic	96.1		P	85 - 115
Barium	101		P	85 - 115
Beryllium	93.0		P	85 - 115
Boron	104		P	85 - 115
Cadmium	97.0		P	85 - 115
Chromium	95.2		P	85 - 115
Cobalt	96.3		P	85 - 115
Copper	94.0		P	85 - 115
Lead	93.4		P	85 - 115
Manganese	97.3		P	85 - 115
Molybdenum	97.0		P	85 - 115
Nickel	96.4		P	85 - 115
Selenium	96.1		P	85 - 115
Silver	97.8		P	85 - 115
Thallium	97.1		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P414292

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P414296

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P414449

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414559

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.7		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414560

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P414435

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P414401

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P414115

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	97.9		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P414133

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	98.6		P	70 - 121
Alachlor	86.4		P	68 - 119
Ametryn	114		P	64 - 139
Atrazine	91.8		P	76 - 120
Atrazine Desethyl	61.7		P	44 - 126
Avobenzone	127		P	76 - 212
Azinphos Methyl	152		P	43 - 192
Azoxystrobin	113		P	36 - 224
Bromacil	76.7		P	52 - 121
Butylate	43.8		P	28 - 91.0

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P414133

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Caffeine	69.2		P	50 - 134
Carbophenothion	93.9		P	56 - 129
Carfentrazone Ethyl	111		P	60 - 141
Chlorfenapyr	78.2		P	56 - 115
Chlorpyrifos Ethyl	88.5		P	60 - 118
Chlorpyrifos Methyl	85.5		P	68 - 119
Coumaphos	148		P	18 - 250
Cyanazine	126		P	61 - 250
Cyprodinil	110		P	55 - 145
Demeton	83.0		P	30 - 159
Diazinon	99.5		P	70 - 123
Difenoconazole	57.4		P	49 - 204
Dimethenamid	79.8		P	64 - 115
Dimethomorph	95.5		P	12 - 219
Disulfoton	84.5		P	44 - 125
Dithiopyr	90.3		P	64 - 115
EPTC	55.6		P	28 - 86.0
Ethion	83.0		P	33 - 125
Ethoprop	88.1		P	64 - 116
Etridiazole	64.2		P	34 - 91.0
Fenamiphos	97.0		P	12 - 127
Fenbuconazole	146		P	59 - 151
Fipronil	97.4		P	67 - 129
Fipronil Desulfinyl	106		P	65 - 127
Fipronil Sulfide	80.8		P	61 - 116
Fipronil Sulfone	91.9		P	55 - 117
Fluazifop-P-butyl	95.9		P	62 - 127
Fludioxonil	104		P	62 - 128
Flumioxazin	158		P	33 - 250
Flutolanil	93.6		P	56 - 127
Fluxapyroxad	83.7		P	45 - 128
Fonofos	82.6		P	62 - 111
Hexazinone	97.3		P	46 - 139
Imazalil	99.7		P	38 - 142
Iprodione	90.8		P	47 - 135
Loratadine	85.3		P	10 - 244
Malathion	99.5		P	61 - 139
Metalaxyl	87.8		P	10 - 119
Metolachlor	93.9		P	65 - 118
Metribuzin	87.3		P	51 - 250
Mevinphos	73.6		P	53 - 121
Molinate	67.9		P	42 - 96.0
Myclobutanil	105		P	55 - 128
Naled	72.0		P	10 - 98.0
Napropamide	81.4		P	49 - 121
Norflurazon	108		P	61 - 126
Octinoxate	138		P	30 - 159
Oxadiazon	83.3		P	59 - 116
Oxybenzone	111		P	61 - 139
Oxyfluorfen	115		P	64 - 137
Parathion Ethyl	94.1		P	70 - 112
Parathion Methyl	95.2		P	76 - 133

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P414133

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pendimethalin	97.1		P	52 - 117
Phenytoin	91.0		P	10 - 199
Phorate	89.4		P	48 - 121
Prodiamine	71.9		P	26 - 142
Prometon	102		P	43 - 123
Prometryn	108		P	66 - 127
Pronamide	101		P	75 - 121
Propanil	82.4		P	45 - 150
Propargite	143		P	42 - 208
Propiconazole	108		P	60 - 125
Pyraflufen Ethyl	105		P	70 - 138
Pyridaben	137		P	35 - 245
Pyriproxyfen	142		P	30 - 149
Simazine	85.0		P	72 - 125
Stiophos	84.4		P	29 - 164
Sulfentrazone	130		P	21 - 139
Tebuconazole	32.0		P	10 - 115
Terbufos	101		P	60 - 123
Terbutylazine	85.4		P	72 - 115
Thiobencarb	85.5		P	31 - 139
Triadimefon	80.0		P	65 - 116

Reference Method: EPA 8270E

Batch ID: P414168

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	54.7		P	10 - 93.0
Alpha-BHC	96.9		P	75 - 106
Alpha-Chlordane	78.3		P	50 - 109
Beta-BHC	111		P	36 - 138
Beta-Cyfluthrin	82.9		P	23 - 167
Bifenthrin	63.3		P	11 - 123
Chlorothalonil	128		P	27 - 190
Cis-Nonachlor	72.4		P	40 - 111
Cypermethrin	80.8		P	25 - 155
Dacthal	82.0		P	72 - 119
DDD-p,p'	73.7		P	47 - 108
DDE-p,p'	80.2		P	48 - 107
DDT-p,p'	78.9		P	49 - 111
Delta-BHC	117		P	54 - 138
Deltamethrin	86.0		P	22 - 189
Dichlobenil	83.5		P	32 - 113
Dicofol	82.7		P	50 - 108
Dieldrin	77.5		P	56 - 110
Endosulfan I	76.0		P	60 - 105
Endosulfan II	86.1		P	50 - 120
Endosulfan Sulfate	79.4		P	55 - 121
Endrin	79.9		P	31 - 119
Endrin Aldehyde	81.1		P	36 - 116
Endrin Ketone	84.5		P	69 - 177
Esfenvalerate	85.1		P	10 - 179
Ethalfuralin	75.3		P	49 - 99.0

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P414168

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fenpropathrin	73.5		P	35 - 119
Gamma-BHC	101		P	69 - 120
Gamma-Chlordane	71.1		P	45 - 107
Heptachlor	67.0		P	41 - 100
Heptachlor Epoxide	76.8		P	58 - 106
Hexachlorobenzene	80.6		P	39 - 100
Kepone	176		P	10 - 191
Lambda-Cyhalothrin	71.0		P	21 - 206
Methoprene	68.1		P	10 - 129
Methoxychlor	82.0		P	61 - 111
MGK-264	77.3		P	20 - 123
Mirex	64.2		P	10 - 182
Oxychlordane	72.5		P	39 - 110
PCB-1016	117		F	49 - 111
PCB-1260	84.1		P	42 - 116
Permethrin	84.2		P	26 - 152
Phenothrin	61.1		P	10 - 109
Piperonyl Butoxide	95.8		P	19 - 147
Prallethrin	71.2		P	14 - 109
Tau-Fluvalinate	77.7		P	16 - 134
Tetramethrin	82.2		P	10 - 125
Trans-Nonachlor	73.4		P	45 - 107
Triclosan Methyl	79.0		P	60 - 110
Trifluralin	78.5		P	44 - 101

Reference Method: EPA 8276

Batch ID: P414168

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	85.0		P	61 - 118
Toxaphene	95.2		P	51 - 122

Reference Method: EPA 8321B

Batch ID: P414017

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	71.0		P	40 - 150
2,4,5-T	61.3		P	40 - 150
Acetaminophen	59.2		P	30 - 150
Acetamiprid	91.9		P	40 - 150
Afidopyropen	65.8		P	30 - 150
Bentazon	138		P	30 - 150
Benzovindiflupyr	85.8		P	40 - 150
Carbamazepine	95.5		P	40 - 150
Clothianidin	99.2		P	40 - 150
Dinotefuran	96.6		P	40 - 150
Diuron	81.8		P	40 - 150
Fenuron	101		P	40 - 150
Fluridone	71.4		P	40 - 150
Hydrocodone	92.2		P	40 - 150
Ibuprofen	70.8		P	40 - 150
Imazapyr	84.9		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P414017

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Imidacloprid	83.8		P	40 - 150
Linuron	68.6		P	40 - 150
Mandestrobin	75.8		P	40 - 150
MCPP	93.6		P	40 - 150
Naproxen	66.4		P	40 - 150
Primidone	90.5		P	40 - 150
Pyraclostrobin	81.1		P	40 - 150
Silvex	56.9		P	40 - 150
Thiamethoxam	97.5		P	40 - 150
Tolfenpyrad	44.6		P	30 - 150
Triclopyr	66.6		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P414089

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	149		P	40 - 150
AMPA	101		P	40 - 150
Endothall	83.8		P	40 - 150
Glufosinate	102		P	40 - 150
Glyphosate	100		P	40 - 150
Sucralose	98.7		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P414165

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	83.7		P	40 - 150
Aldicarb	73.4		P	30 - 150
Aldicarb Sulfone	92.1		P	40 - 150
Aldicarb Sulfoxide	87.9		P	40 - 150
Carbaryl	66.9		P	40 - 150
Carbofuran	78.9		P	40 - 150
Methiocarb	65.3		P	40 - 150
Methomyl	83.9		P	40 - 150
Oxamyl	93.8		P	40 - 150
Propoxur	79.7		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P414260

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.4		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P414266

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.5		P	96 - 104

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P414460

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P414132

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2327776	Calcium	103		P	80 - 120
2327776	Iron	106	106	P/P	80 - 120
2327776	Magnesium	107	107	P/P	80 - 120
2327776	Potassium	101	105	P/P	80 - 120
2327776	Sodium	101		P	80 - 120
2327776	Strontium	103	103	P/P	80 - 120
2327776	Tin	102	107	P/P	80 - 120
2327776	Titanium	98.8	103	P/P	80 - 120
2327776	Vanadium	93.8	98.5	P/P	80 - 120
2327776	Zinc	95.5	105	P/P	80 - 120
2327777	Calcium	98.5		P	80 - 120
2327777	Iron	102		P	80 - 120
2327777	Magnesium	98.2		P	80 - 120
2327777	Potassium	94.8		P	80 - 120
2327777	Sodium	97.8		P	80 - 120
2327777	Strontium	98.1		P	80 - 120
2327777	Tin	101		P	80 - 120
2327777	Titanium	98.5		P	80 - 120
2327777	Vanadium	94.5		P	80 - 120
2327777	Zinc	100		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P414132

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2327776	Aluminum	101	102	P/P	80 - 120
2327776	Antimony	102	103	P/P	80 - 120
2327776	Arsenic	101	101	P/P	80 - 120
2327776	Barium	104	105	P/P	80 - 120
2327776	Beryllium	97.0	94.2	P/P	80 - 120
2327776	Boron	103	102	P/P	80 - 120
2327776	Cadmium	99.5	102	P/P	80 - 120
2327776	Chromium	99.7	99.7	P/P	80 - 120
2327776	Cobalt	99.1	100	P/P	80 - 120
2327776	Copper	99.1	98.2	P/P	80 - 120
2327776	Lead	96.6	97.0	P/P	80 - 120
2327776	Manganese	100	101	P/P	80 - 120
2327776	Molybdenum	103	103	P/P	80 - 120
2327776	Nickel	98.8	99.3	P/P	80 - 120
2327776	Selenium	98.5	98.0	P/P	80 - 120
2327776	Silver	97.8	98.5	P/P	80 - 120
2327776	Thallium	98.6	102	P/P	80 - 120
2327777	Aluminum	98.4		P	80 - 120
2327777	Antimony	101		P	80 - 120
2327777	Arsenic	100		P	80 - 120
2327777	Barium	103		P	80 - 120
2327777	Beryllium	96.4		P	80 - 120
2327777	Boron	105		P	80 - 120
2327777	Cadmium	101		P	80 - 120
2327777	Chromium	99.4		P	80 - 120
2327777	Cobalt	97.3		P	80 - 120
2327777	Copper	95.6		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P414132

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2327777	Lead	97.2		P	80 - 120
2327777	Manganese	99.4		P	80 - 120
2327777	Molybdenum	103		P	80 - 120
2327777	Nickel	96.4		P	80 - 120
2327777	Selenium	97.2		P	80 - 120
2327777	Silver	95.9		P	80 - 120
2327777	Thallium	99.8		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P414292

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2328395	Chloride	96.9		P	90 - 110
2328416	Chloride	99.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P414296

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2328395	Sulfate	99.6		P	90 - 110
2328416	Sulfate	99.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P414449

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2328633	Ammonia-N	91.8	94.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414559

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2328400	Kjeldahl Nitrogen	104	99.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414560

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2328402	Kjeldahl Nitrogen	99.7	108	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P414435

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2328399	NO2NO3-N	99.0	98.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P414401

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2328474	Total-P	101	99.3	P/P	90 - 110

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P414115

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2328420	O-Phosphate-P	97.4	99.1	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P414133

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2327604	Acetochlor	103	104	P/P	65 - 124
2327604	Alachlor	91.2	91.4	P/P	61 - 121
2327604	Ametryn	126	133	P/P	52 - 216
2327604	Atrazine	95.8	94.6	P/P	68 - 133
2327604	Atrazine Desethyl	63.2	62.8	P/P	15 - 160
2327604	Avobenzone	118	121	P/P	59 - 206
2327604	Azinphos Methyl	151	147	P/P	40 - 292
2327604	Azoxystrobin	123	118	P/P	12 - 242
2327604	Bromacil	91.5	87.9	P/P	54 - 167
2327604	Butylate	49.4	45.7	P/P	14 - 94.0
2327604	Caffeine	84.9	90.6	P/P	10 - 226
2327604	Carbophenothion	98.9	102	P/P	49 - 122
2327604	Carfentrazone Ethyl	114	115	P/P	53 - 138
2327604	Chlorfenapyr	82.4	78.3	P/P	50 - 150
2327604	Chlorpyrifos Ethyl	95.1	94.0	P/P	52 - 122
2327604	Chlorpyrifos Methyl	93.1	94.8	P/P	66 - 117
2327604	Coumaphos	159	168	P/P	50 - 220
2327604	Cyanazine	115	113	P/P	43 - 245
2327604	Cyprodinil	122	119	P/P	50 - 150
2327604	Demeton	94.4	91.4	P/P	43 - 188
2327604	Diazinon	98.4	104	P/P	69 - 131
2327604	Difenoconazole	57.4	59.3	P/P	34 - 231
2327604	Dimethenamid	82.3	81.0	P/P	55 - 118
2327604	Dimethomorph	98.9	103	P/P	50 - 150
2327604	Disulfoton	90.6	89.5	P/P	38 - 141
2327604	Dithiopyr	96.1	91.2	P/P	42 - 116
2327604	EPTC	52.9	63.0	P/P	18 - 85.0
2327604	Ethion	86.4	83.2	P/P	10 - 131
2327604	Ethoprop	90.3	90.4	P/P	65 - 129
2327604	Etridiazole	63.8	70.3	P/P	50 - 150
2327604	Fenamiphos	108	110	P/P	31 - 137
2327604	Fenbuconazole	146	149	P/P	57 - 160
2327604	Fipronil	109	109	P/P	62 - 132
2327604	Fipronil Desulfinyl	108	108	P/P	57 - 131
2327604	Fipronil Sulfide	92.9	90.3	P/P	15 - 138
2327604	Fipronil Sulfone	100	106	P/P	21 - 134
2327604	Fluazifop-P-butyl	98.6	98.3	P/P	54 - 133
2327604	Fludioxonil	109	113	P/P	58 - 127
2327604	Flumioxazin	229	243	P/P	33 - 300
2327604	Flutolanil	99.6	102	P/P	42 - 130
2327604	Fluxapyroxad	79.9	77.8	P/P	23 - 141
2327604	Fonofos	89.4	83.3	P/P	58 - 119
2327604	Hexazinone	106	103	P/P	68 - 172
2327604	Imazalil	87.1	84.7	P/P	48 - 283
2327604	Iprodione	91.1	89.8	P/P	38 - 140
2327604	Loratadine	90.0	101	P/P	50 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P414133

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2327604	Malathion	112	111	P/P	40 - 137
2327604	Metalaxyl	89.1	91.8	P/P	21 - 129
2327604	Metolachlor	96.7	93.5	P/P	55 - 122
2327604	Metribuzin	90.1	101	P/P	38 - 187
2327604	Mevinphos	79.4	79.4	P/P	54 - 134
2327604	Molinate	66.3	70.5	P/P	41 - 97.0
2327604	Myclobutanil	114	115	P/P	56 - 125
2327604	Naled	90.9	101	P/P	10 - 108
2327604	Napropamide	83.8	86.3	P/P	50 - 150
2327604	Norflurazon	110	112	P/P	32 - 122
2327604	Octinoxate	87.1	89.9	P/P	25 - 150
2327604	Oxadiazon	87.5	87.6	P/P	40 - 119
2327604	Oxybenzone	93.1	94.3	P/P	59 - 147
2327604	Oxyfluorfen	118	121	P/P	61 - 153
2327604	Parathion Ethyl	94.3	96.6	P/P	59 - 130
2327604	Parathion Methyl	104	107	P/P	65 - 155
2327604	Pendimethalin	107	109	P/P	49 - 138
2327604	Phenytoin	84.0	82.9	P/P	50 - 200
2327604	Phorate	81.6	77.8	P/P	54 - 161
2327604	Prodiamine	96.1	83.6	P/P	33 - 161
2327604	Prometon	120	104	P/P	48 - 140
2327604	Prometryn	116	118	P/P	55 - 134
2327604	Pronamide	106	108	P/P	66 - 137
2327604	Propanil	85.3	85.8	P/P	50 - 150
2327604	Propargite	145	148	P/P	50 - 200
2327604	Propiconazole	117	118	P/P	36 - 150
2327604	Pyraflufen Ethyl	112	118	P/P	50 - 150
2327604	Pyridaben	153	156	P/P	50 - 200
2327604	Pyriproxyfen	138	138	P/P	10 - 165
2327604	Simazine	96.8	94.7	P/P	57 - 145
2327604	Stiropfos	94.2	91.6	P/P	50 - 150
2327604	Sulfentrazone	87.4	84.3	P/P	34 - 140
2327604	Tebuconazole	123	122	P/P	10 - 127
2327604	Terbufos	108	108	P/P	59 - 138
2327604	Terbuthylazine	90.2	89.6	P/P	68 - 119
2327604	Thiobencarb	87.3	87.0	P/P	50 - 150
2327604	Triadimefon	87.5	84.0	P/P	50 - 150

Reference Method: EPA 8270E
Batch ID: P414168

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2328442	Aldrin	52.6	45.6	P/P	10 - 89.0
2328442	Alpha-BHC	94.0	91.3	P/P	71 - 105
2328442	Alpha-Chlordane	79.6	60.5	P/P	43 - 107
2328442	Beta-BHC	128	103	P/P	57 - 152
2328442	Beta-Cyfluthrin	83.2	67.2	P/P	29 - 186
2328442	Bifenthrin	82.6	66.2	P/P	19 - 119
2328442	Chlorothalonil	211	159	P/P	10 - 245
2328442	Cis-Nonachlor	103	76.8	P/P	36 - 110
2328442	Cypermethrin	109	83.1	P/P	24 - 169
2328442	Dacthal	96.8	84.4	P/P	62 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P414168

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2328442	DDD-p,p'	97.0	73.8	P/P	36 - 109
2328442	DDE-p,p'	74.6	62.4	P/P	30 - 114
2328442	DDT-p,p'	78.2	68.6	P/P	42 - 108
2328442	Delta-BHC	138	119	P/P	60 - 164
2328442	Deltamethrin	67.7	64.0	P/P	10 - 210
2328442	Dichlobenil	49.4	40.1	P/P	23 - 108
2328442	Dicofol	97.3	79.7	P/P	44 - 109
2328442	Dieldrin	99.6	78.2	P/P	37 - 119
2328442	Endosulfan I	77.7	68.1	P/P	52 - 105
2328442	Endosulfan II	91.0	70.1	P/P	35 - 127
2328442	Endosulfan Sulfate	89.2	62.6	P/P	39 - 130
2328442	Endrin	74.1	67.6	P/P	30 - 116
2328442	Endrin Aldehyde	89.4	54.7	P/P	20 - 110
2328442	Endrin Ketone	114	73.8	P/P	48 - 134
2328442	Esfenvalerate	99.1	69.4	P/P	10 - 199
2328442	Ethalfuralin	72.6	69.8	P/P	48 - 95.0
2328442	Fenpropathrin	81.5	62.6	P/P	37 - 121
2328442	Gamma-BHC	108	101	P/P	61 - 126
2328442	Gamma-Chlordane	74.3	56.1	P/P	39 - 105
2328442	Heptachlor	78.8	62.9	P/P	38 - 96.0
2328442	Heptachlor Epoxide	123	102	F/P	42 - 114
2328442	Hexachlorobenzene	65.7	63.0	P/P	39 - 93.0
2328442	Kepone	189	68.5	P/P	10 - 215
2328442	Lambda-Cyhalothrin	101	76.3	P/P	10 - 204
2328442	Methoprene	90.1	65.3	P/P	17 - 108
2328442	Methoxychlor	80.4	70.0	P/P	56 - 115
2328442	MGK-264	88.4	71.5	P/P	35 - 120
2328442	Mirex	75.8	60.8	P/P	10 - 178
2328442	Oxychlordane	70.6	55.8	P/P	47 - 91.0
2328442	Permethrin	115	86.3	P/P	27 - 170
2328442	Phenothrin	61.8	67.4	P/P	10 - 133
2328442	Piperonyl Butoxide	147	114	P/P	23 - 150
2328442	Prallethrin	92.2	83.8	P/P	21 - 113
2328442	Tau-Fluvalinate	85.0	62.3	P/P	16 - 158
2328442	Tetramethrin	126	91.9	P/P	22 - 132
2328442	Trans-Nonachlor	78.1	62.6	P/P	43 - 102
2328442	Triclosan Methyl	80.5	69.8	P/P	49 - 109
2328442	Trifluralin	72.1	69.1	P/P	48 - 93.0
2328970	PCB-1016	91.1	117	P/F	46 - 110
2328970	PCB-1260	85.1	89.2	P/P	42 - 111

Reference Method: EPA 8276
Batch ID: P414168

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2328970	Chlordane	82.1	92.9	P/P	55 - 128
2328970	Toxaphene	106	116	P/P	57 - 211

Reference Method: EPA 8321B
Batch ID: P414017

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P414017

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2327564	2,4-D	80.9	72.4	P/P	40 - 150
2327564	2,4,5-T	69.9	60.1	P/P	40 - 150
2327564	Acetaminophen	65.0	62.9	P/P	30 - 150
2327564	Acetamiprid	90.5	88.3	P/P	40 - 150
2327564	Afidopyropen	61.9	58.4	P/P	30 - 150
2327564	Bentazon	176	143	F/P	30 - 150
2327564	Benzovindiflupyr	100	87.0	P/P	40 - 150
2327564	Carbamazepine	112	101	P/P	40 - 150
2327564	Clothianidin	94.1	85.7	P/P	40 - 150
2327564	Dinotefuran	114	102	P/P	40 - 150
2327564	Diuron	97.3	88.1	P/P	40 - 150
2327564	Fenuron	112	98.0	P/P	40 - 150
2327564	Fluridone	83.4	75.6	P/P	40 - 150
2327564	Hydrocodone	108	98.8	P/P	40 - 150
2327564	Ibuprofen	69.7	62.9	P/P	40 - 150
2327564	Imazapyr	94.5	82.2	P/P	40 - 150
2327564	Imidacloprid	110	96.4	P/P	40 - 150
2327564	Linuron	71.1	67.4	P/P	40 - 150
2327564	Mandestrobin	77.9	73.4	P/P	40 - 150
2327564	MCCP	102	82.2	P/P	40 - 150
2327564	Naproxen	74.7	59.2	P/P	40 - 150
2327564	Primidone	85.3	80.9	P/P	40 - 150
2327564	Pyraclostrobin	92.4	84.4	P/P	40 - 150
2327564	Silvex	65.8	56.4	P/P	40 - 150
2327564	Thiamethoxam	110	101	P/P	40 - 150
2327564	Tolfenpyrad	54.2	47.1	P/P	30 - 150
2327564	Triclopyr	75.3	62.8	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P414089

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2327862	Acesulfame K	123	118	P/P	40 - 150
2327862	AMPA	111	104	P/P	40 - 150
2327862	Endothall	88.1	89.5	P/P	40 - 150
2327862	Glufosinate	95.8	89.4	P/P	40 - 150
2327862	Glyphosate	94.2	94.1	P/P	40 - 150
2327862	Sucralose	99.5	101	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P414165

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2328431	3-Hydroxycarbofuran	84.8	80.0	P/P	40 - 150
2328431	Aldicarb	71.7	62.1	P/P	30 - 150
2328431	Aldicarb Sulfone	88.9	84.3	P/P	40 - 150
2328431	Aldicarb Sulfoxide	67.0	60.7	P/P	40 - 150
2328431	Carbaryl	49.6	47.1	P/P	40 - 150
2328431	Carbofuran	62.5	60.3	P/P	40 - 150
2328431	Methiocarb	53.7	51.3	P/P	40 - 150
2328431	Methomyl	70.3	69.0	P/P	40 - 150
2328431	Oxamyl	88.0	85.5	P/P	40 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P414165

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2328431	Propoxur	64.3	60.1	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P414266

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2327557	Fluoride	97.0	97.6	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P414460

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2328588	Organic Carbon	96.8	97.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P414128

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2328416	Color (true)	6.81	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P414121

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2328189	Turbidity	1.92	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P414132

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2327776	Calcium	1.16	Spike	P	0 - 20
2327776	Iron	0.426	Spike	P	0 - 20
2327776	Magnesium	0.0584	Spike	P	0 - 20
2327776	Potassium	2.70	Spike	P	0 - 20
2327776	Sodium	2.11	Spike	P	0 - 20
2327776	Strontium	0.251	Spike	P	0 - 20
2327776	Tin	5.35	Spike	P	0 - 20
2327776	Titanium	4.54	Spike	P	0 - 20
2327776	Vanadium	4.91	Spike	P	0 - 20
2327776	Zinc	9.82	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P414132

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2327776	Aluminum	0.715	Spike	P	0 - 20
2327776	Antimony	0.516	Spike	P	0 - 20
2327776	Arsenic	0.407	Spike	P	0 - 20
2327776	Barium	0.423	Spike	P	0 - 20
2327776	Beryllium	2.96	Spike	P	0 - 20
2327776	Boron	0.656	Spike	P	0 - 20
2327776	Cadmium	2.13	Spike	P	0 - 20
2327776	Chromium	0.0772	Spike	P	0 - 20
2327776	Cobalt	1.08	Spike	P	0 - 20
2327776	Copper	0.850	Spike	P	0 - 20
2327776	Lead	0.429	Spike	P	0 - 20
2327776	Manganese	0.972	Spike	P	0 - 20
2327776	Molybdenum	0.243	Spike	P	0 - 20
2327776	Nickel	0.509	Spike	P	0 - 20
2327776	Selenium	0.517	Spike	P	0 - 20
2327776	Silver	0.751	Spike	P	0 - 20
2327776	Thallium	3.54	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P414292

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2328395	Chloride	0.139	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P414296

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2328395	Sulfate	0.0789	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P414449

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2328633	Ammonia-N	2.53	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414559

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2328400	Kjeldahl Nitrogen	4.35	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414560

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2328402	Kjeldahl Nitrogen	6.39	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P414435

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2328399	NO2NO3-N	0.421	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P414401

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2328474	Total-P	1.77	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P414115

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2328420	O-Phosphate-P	1.29	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P414133

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2327604	Acetochlor	1.55	Spike	P	0 - 27
2327604	Alachlor	0.235	Spike	P	0 - 27
2327604	Ametryn	5.12	Spike	P	0 - 34
2327604	Atrazine	0.740	Spike	P	0 - 41
2327604	Atrazine Desethyl	0.674	Spike	P	0 - 38
2327604	Avobenzone	2.20	Spike	P	0 - 30
2327604	Azinphos Methyl	2.19	Spike	P	0 - 62
2327604	Azoxystrobin	4.28	Spike	P	0 - 32
2327604	Bromacil	4.03	Spike	P	0 - 30
2327604	Butylate	7.87	Spike	P	0 - 59
2327604	Caffeine	6.50	Spike	P	0 - 60
2327604	Carbophenothion	3.13	Spike	P	0 - 25
2327604	Carfentrazone Ethyl	0.533	Spike	P	0 - 26
2327604	Chlorfenapyr	5.07	Spike	P	0 - 30
2327604	Chlorpyrifos Ethyl	1.20	Spike	P	0 - 27
2327604	Chlorpyrifos Methyl	1.81	Spike	P	0 - 26
2327604	Coumaphos	5.31	Spike	P	0 - 30
2327604	Cyanazine	2.30	Spike	P	0 - 58
2327604	Cyprodinil	2.05	Spike	P	0 - 30
2327604	Demeton	3.20	Spike	P	0 - 25
2327604	Diazinon	5.40	Spike	P	0 - 29
2327604	Difenoconazole	3.26	Spike	P	0 - 25
2327604	Dimethenamid	1.45	Spike	P	0 - 30
2327604	Dimethomorph	3.59	Spike	P	0 - 30
2327604	Disulfoton	1.20	Spike	P	0 - 33
2327604	Dithiopyr	5.20	Spike	P	0 - 22
2327604	EPTC	17.3	Spike	P	0 - 38
2327604	Ethion	3.76	Spike	P	0 - 79
2327604	Ethoprop	0.0581	Spike	P	0 - 23
2327604	Etridiazole	9.77	Spike	P	0 - 30
2327604	Fenamiphos	1.77	Spike	P	0 - 58
2327604	Fenbuconazole	1.67	Spike	P	0 - 37
2327604	Fipronil	0.303	Spike	P	0 - 33
2327604	Fipronil Desulfinyl	0.263	Spike	P	0 - 26
2327604	Fipronil Sulfide	2.77	Spike	P	0 - 37
2327604	Fipronil Sulfone	5.34	Spike	P	0 - 50
2327604	Fluazifop-P-butyl	0.326	Spike	P	0 - 24
2327604	Fludioxonil	3.19	Spike	P	0 - 26
2327604	Flumioxazin	5.90	Spike	P	0 - 37
2327604	Flutolanil	2.68	Spike	P	0 - 26
2327604	Fluxapyroxad	2.61	Spike	P	0 - 34
2327604	Fonofos	7.01	Spike	P	0 - 27
2327604	Hexazinone	2.05	Spike	P	0 - 36
2327604	Imazalil	2.80	Spike	P	0 - 65
2327604	Iprodione	1.42	Spike	P	0 - 33
2327604	Loratadine	11.1	Spike	P	0 - 30
2327604	Malathion	1.07	Spike	P	0 - 44
2327604	Metalaxyl	3.00	Spike	P	0 - 38
2327604	Metolachlor	2.48	Spike	P	0 - 36
2327604	Metribuzin	11.0	Spike	P	0 - 63
2327604	Mevinphos	0.102	Spike	P	0 - 26

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P414133

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2327604	Molinate	6.10	Spike	P	0 - 40
2327604	Myclobutanil	1.02	Spike	P	0 - 21
2327604	Naled	10.1	Spike	P	0 - 26
2327604	Napropamide	2.94	Spike	P	0 - 30
2327604	Norflurazon	1.89	Spike	P	0 - 24
2327604	Octinoxate	2.48	Spike	P	0 - 30
2327604	Oxadiazon	0.149	Spike	P	0 - 27
2327604	Oxybenzone	1.27	Spike	P	0 - 30
2327604	Oxyfluorfen	2.14	Spike	P	0 - 24
2327604	Parathion Ethyl	2.39	Spike	P	0 - 28
2327604	Parathion Methyl	3.34	Spike	P	0 - 27
2327604	Pendimethalin	1.30	Spike	P	0 - 31
2327604	Phenytoin	1.35	Spike	P	0 - 30
2327604	Phorate	4.85	Spike	P	0 - 27
2327604	Prodiamine	14.0	Spike	P	0 - 52
2327604	Prometon	14.9	Spike	P	0 - 31
2327604	Prometryn	0.973	Spike	P	0 - 28
2327604	Pronamide	1.62	Spike	P	0 - 26
2327604	Propanil	0.558	Spike	P	0 - 30
2327604	Propargite	1.52	Spike	P	0 - 30
2327604	Propiconazole	1.09	Spike	P	0 - 31
2327604	Pyraflufen Ethyl	5.49	Spike	P	0 - 30
2327604	Pyridaben	1.98	Spike	P	0 - 30
2327604	Pyriproxyfen	0.188	Spike	P	0 - 50
2327604	Simazine	2.21	Spike	P	0 - 29
2327604	Stirophos	2.80	Spike	P	0 - 30
2327604	Sulfentrazone	3.57	Spike	P	0 - 33
2327604	Tebuconazole	0.547	Spike	P	0 - 44
2327604	Terbufos	0.663	Spike	P	0 - 29
2327604	Terbutylazine	0.707	Spike	P	0 - 27
2327604	Thiobencarb	0.336	Spike	P	0 - 30
2327604	Triadimefon	4.10	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P414168

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2328442	Aldrin	14.3	Spike	P	0 - 37
2328442	Alpha-BHC	2.88	Spike	P	0 - 16
2328442	Alpha-Chlordane	27.2	Spike	P	0 - 28
2328442	Beta-BHC	21.7	Spike	P	0 - 32
2328442	Beta-Cyfluthrin	21.2	Spike	P	0 - 41
2328442	Bifenthrin	22.0	Spike	P	0 - 36
2328442	Chlorothalonil	27.8	Spike	P	0 - 54
2328442	Cis-Nonachlor	29.3	Spike	P	0 - 33
2328442	Cypermethrin	27.1	Spike	P	0 - 38
2328442	Dacthal	13.8	Spike	P	0 - 23
2328442	DDD-p,p'	27.2	Spike	P	0 - 35
2328442	DDE-p,p'	17.8	Spike	P	0 - 27
2328442	DDT-p,p'	13.0	Spike	P	0 - 31

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P414168

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2328442	Delta-BHC	14.6	Spike	P	0 - 30
2328442	Deltamethrin	5.59	Spike	P	0 - 76
2328442	Dichlobenil	20.8	Spike	P	0 - 33
2328442	Dicofol	19.9	Spike	P	0 - 24
2328442	Dieldrin	24.2	Spike	P	0 - 35
2328442	Endosulfan I	13.1	Spike	P	0 - 25
2328442	Endosulfan II	26.0	Spike	P	0 - 31
2328442	Endosulfan Sulfate	35.0	Spike	P	0 - 38
2328442	Endrin	9.08	Spike	P	0 - 53
2328442	Endrin Aldehyde	48.2	Spike	P	0 - 81
2328442	Endrin Ketone	42.8	Spike	F	0 - 33
2328442	Esfenvalerate	35.2	Spike	P	0 - 46
2328442	Ethalfuralin	3.90	Spike	P	0 - 22
2328442	Fenpropathrin	26.3	Spike	P	0 - 29
2328442	Gamma-BHC	6.72	Spike	P	0 - 17
2328442	Gamma-Chlordane	25.0	Spike	P	0 - 28
2328442	Heptachlor	22.5	Spike	P	0 - 28
2328442	Heptachlor Epoxide	19.4	Spike	P	0 - 23
2328442	Hexachlorobenzene	4.30	Spike	P	0 - 22
2328442	Kepone	93.5	Spike	F	0 - 61
2328442	Lambda-Cyhalothrin	27.4	Spike	P	0 - 52
2328442	Methoprene	31.9	Spike	P	0 - 38
2328442	Methoxychlor	13.8	Spike	P	0 - 29
2328442	MGK-264	17.8	Spike	P	0 - 41
2328442	Mirex	22.0	Spike	P	0 - 39
2328442	Oxychlordane	23.3	Spike	P	0 - 33
2328442	Permethrin	28.5	Spike	P	0 - 39
2328442	Phenothrin	8.66	Spike	P	0 - 52
2328442	Piperonyl Butoxide	19.7	Spike	P	0 - 91
2328442	Prallethrin	9.63	Spike	P	0 - 34
2328442	Tau-Fluvalinate	30.9	Spike	P	0 - 41
2328442	Tetramethrin	31.3	Spike	P	0 - 43
2328442	Trans-Nonachlor	22.1	Spike	P	0 - 31
2328442	Triclosan Methyl	14.2	Spike	P	0 - 24
2328442	Trifluralin	4.27	Spike	P	0 - 23
2328970	PCB-1016	24.5	Spike	P	0 - 32
2328970	PCB-1260	4.73	Spike	P	0 - 31

Reference Method: EPA 8276
Batch ID: P414168

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2328970	Chlordane	11.0	Spike	P	0 - 25
2328970	Toxaphene	8.29	Spike	P	0 - 24

Reference Method: EPA 8321B
Batch ID: P414017

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P414017

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2327564	2,4-D	11.2	Spike	P	0 - 30
2327564	2,4,5-T	15.0	Spike	P	0 - 30
2327564	Acetaminophen	3.33	Spike	P	0 - 30
2327564	Acetamiprid	2.47	Spike	P	0 - 30
2327564	Afidopyropen	5.79	Spike	P	0 - 30
2327564	Bentazon	17.1	Spike	P	0 - 30
2327564	Benzovindiflupyr	14.0	Spike	P	0 - 30
2327564	Carbamazepine	10.5	Spike	P	0 - 30
2327564	Clothianidin	9.29	Spike	P	0 - 30
2327564	Dinotefuran	10.9	Spike	P	0 - 30
2327564	Diuron	10.0	Spike	P	0 - 30
2327564	Fenuron	13.0	Spike	P	0 - 30
2327564	Fluridone	8.14	Spike	P	0 - 30
2327564	Hydrocodone	9.01	Spike	P	0 - 30
2327564	Ibuprofen	10.3	Spike	P	0 - 30
2327564	Imazapyr	13.1	Spike	P	0 - 30
2327564	Imidacloprid	13.5	Spike	P	0 - 30
2327564	Linuron	5.41	Spike	P	0 - 30
2327564	Mandestrobin	5.93	Spike	P	0 - 30
2327564	MCPP	21.4	Spike	P	0 - 30
2327564	Naproxen	23.2	Spike	P	0 - 30
2327564	Primidone	5.29	Spike	P	0 - 30
2327564	Pyraclostrobin	8.97	Spike	P	0 - 30
2327564	Silvex	15.5	Spike	P	0 - 30
2327564	Thiamethoxam	8.31	Spike	P	0 - 30
2327564	Tolfenpyrad	14.1	Spike	P	0 - 30
2327564	Triclopyr	18.1	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P414089

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2327862	Acesulfame K	3.98	Spike	P	0 - 30
2327862	AMPA	5.94	Spike	P	0 - 30
2327862	Endothall	1.58	Spike	P	0 - 30
2327862	Glufosinate	6.87	Spike	P	0 - 30
2327862	Glyphosate	0.121	Spike	P	0 - 30
2327862	Sucralose	0.699	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P414165

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2328431	3-Hydroxycarbofuran	5.86	Spike	P	0 - 30
2328431	Aldicarb	14.4	Spike	P	0 - 30
2328431	Aldicarb Sulfone	5.33	Spike	P	0 - 30
2328431	Aldicarb Sulfoxide	9.87	Spike	P	0 - 30
2328431	Carbaryl	5.09	Spike	P	0 - 30
2328431	Carbofuran	3.50	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P414165

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2328431	Methiocarb	4.56	Spike	P	0 - 30
2328431	Methomyl	1.89	Spike	P	0 - 30
2328431	Oxamyl	2.92	Spike	P	0 - 30
2328431	Propoxur	6.65	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P414260

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2327557	Total Alkalinity	0.201	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P414428

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2327859	TDS	6.32	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P414266

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2327557	Fluoride	0.530	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P414460

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2328588	Organic Carbon	0.120	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2328431
Field Sample ID: G3SW0074

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	53.3	P	30 - 160

Lab Sample ID: 2328432
Field Sample ID: G2SW0053

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	62.5	P	30 - 160

Lab Sample ID: 2328433
Field Sample ID: G3SW0074

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	61.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	32.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	90.5	P	30 - 160
EPA 8321B	Diuron-d6	55.9	P	30 - 160
EPA 8321B	Endothall-d6	90.0	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	92.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	54.8	P	30 - 160
EPA 8321B	Primidone-d5	77.9	P	30 - 160
EPA 8321B	Sucralose-d6	105	P	30 - 160

Lab Sample ID: 2328434
Field Sample ID: G2SW0053

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	86.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	40.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	97.8	P	30 - 160
EPA 8321B	Diuron-d6	54.6	P	30 - 160
EPA 8321B	Endothall-d6	87.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	102	P	30 - 160
EPA 8321B	Ibuprofen-d3	58.7	P	30 - 160
EPA 8321B	Primidone-d5	76.7	P	30 - 160
EPA 8321B	Sucralose-d6	104	P	30 - 160

Lab Sample ID: 2328441
Field Sample ID: G3SW0074

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	71.1	P	38 - 115
EPA 8270E	Decachlorobiphenyl	60.3	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	43.5	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	42.4	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	52.0	P	30 - 97.0
EPA 8276	PCNB	64.2	P	45 - 119

Lab Sample ID: 2328442
Field Sample ID: G2SW0053

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	82.4	P	38 - 115

Quality Assurance Report Surrogates

Lab Sample ID: 2328442
Field Sample ID: G2SW0053

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	63.8	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	63.1	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	65.1	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	61.2	P	30 - 97.0
EPA 8276	PCNB	74.0	P	45 - 119

Lab Sample ID: 2328443
Field Sample ID: G3SW0074

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	79.6	P	20 - 200
EPA 8270E	Simazine-d10	82.1	P	71 - 140
EPA 8270E	Terbufos-d10	84.8	P	62 - 131
EPA 8270E	Terphenyl-d14	74.8	P	52 - 141

Lab Sample ID: 2328444
Field Sample ID: G2SW0053

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	90.6	P	20 - 200
EPA 8270E	Simazine-d10	78.7	P	71 - 140
EPA 8270E	Terbufos-d10	89.9	P	62 - 131
EPA 8270E	Terphenyl-d14	83.9	P	52 - 141

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A112267

Included Lab Sample IDs: 2328420, 2328421

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A112269

Included Lab Sample IDs: 2328416, 2328417

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	101	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1

Run ID: A112271

Included Lab Sample IDs: 2328416, 2328417

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	103	P/P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A112316

Included Lab Sample IDs: 2328445, 2328446

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	101	98.5	P/P	90 - 110
Antimony	98.9	97.3	P/P	90 - 110
Arsenic	97.9	96.4	P/P	90 - 110
Barium	98.5	97.9	P/P	90 - 110
Beryllium	97.5	97.2	P/P	90 - 110
Boron	101	99.5	P/P	90 - 110
Cadmium	99.2	98.3	P/P	90 - 110
Chromium	98.2	97.6	P/P	90 - 110
Cobalt	97.0	95.6	P/P	90 - 110
Copper	94.9	94.1	P/P	90 - 110
Lead	93.4	91.8	P/P	90 - 110
Manganese	99.3	98.9	P/P	90 - 110
Molybdenum	98.7	96.7	P/P	90 - 110
Nickel	97.4	96.0	P/P	90 - 110
Selenium	97.1	97.5	P/P	90 - 110
Silver	99.5	98.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A112324

Included Lab Sample IDs: 2328433, 2328434

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	89.1	92.3	P/P	50 - 150
2,4,5-T	87.8	91.6	P/P	50 - 150
Acetaminophen	104	109	P/P	60 - 160
Acetamiprid	108	112	P/P	50 - 150
Afidopyropen	89.5	101	P/P	50 - 150
Bentazon	95.5	107	P/P	50 - 160
Benzovindiflupyr	100	100	P/P	50 - 150
Carbamazepine	97.3	103	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A112324

Included Lab Sample IDs: 2328433, 2328434

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Clothianidin	113	109	P/P	60 - 150
Dinotefuran	100	104	P/P	50 - 150
Diuron	122	116	P/P	60 - 160
Fenuron	95.6	97.3	P/P	60 - 150
Fluridone	103	102	P/P	60 - 160
Hydrocodone	100	103	P/P	60 - 150
Ibuprofen	85.9	87.7	P/P	50 - 160
Imazapyr	84.0	90.0	P/P	50 - 150
Imidacloprid	87.7	90.5	P/P	60 - 150
Linuron	94.3	95.4	P/P	60 - 150
Mandestrobin	99.5	104	P/P	50 - 150
MCPP	94.0	98.3	P/P	50 - 150
Naproxen	85.7	101	P/P	50 - 160
Primidone	99.1	97.4	P/P	60 - 150
Pyraclostrobin	102	102	P/P	60 - 150
Silvex	86.2	99.8	P/P	50 - 150
Thiamethoxam	100	104	P/P	50 - 150
Tolfenpyrad	94.0	98.9	P/P	60 - 150
Triclopyr	92.2	94.7	P/P	50 - 150

Reference Method: EPA 8321B

Run ID: A112330

Included Lab Sample IDs: 2328433

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endothall	112	91.2	P/P	60 - 160
Glufosinate	105	102	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A112331

Included Lab Sample IDs: 2328433, 2328434

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	159	153	P/P	60 - 160
AMPA	101	98.5	P/P	60 - 160
AMPA	119	126	P/P	60 - 160
Endothall	88.8	91.2	P/P	60 - 160
Glufosinate	105	102	P/P	60 - 160
Glyphosate	102	100	P/P	60 - 160
Glyphosate	103	97.5	P/P	60 - 160
Sucralose	108	107	P/P	60 - 160

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A112342

Included Lab Sample IDs: 2328445, 2328446

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	103	P/P	90 - 110
Iron	100	102	P/P	90 - 110
Magnesium	99.8	102	P/P	90 - 110
Potassium	99.9	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A112342

Included Lab Sample IDs: 2328445, 2328446

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sodium	101	102	P/P	90 - 110
Strontium	100	101	P/P	90 - 110
Tin	101	102	P/P	90 - 110
Titanium	97.0	96.7	P/P	90 - 110
Vanadium	97.3	97.9	P/P	90 - 110
Zinc	98.9	98.9	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A112346

Included Lab Sample IDs: 2328416, 2328417

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.4	98.6	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A112346

Included Lab Sample IDs: 2328416, 2328417

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A112347

Included Lab Sample IDs: 2328445, 2328446

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beryllium	90.8	90.4	P/P	90 - 110
Thallium	93.7	91.9	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A112361

Included Lab Sample IDs: 2328416, 2328417

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	100	P/P	90 - 110
Chloride	100	101	P/P	90 - 110
Sulfate	102	102	P/P	90 - 110
Sulfate	102	102	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A112389

Included Lab Sample IDs: 2328431, 2328432

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	102	105	P/P	60 - 150
Aldicarb	97.0	101	P/P	60 - 150
Aldicarb Sulfone	101	105	P/P	50 - 150
Aldicarb Sulfoxide	97.2	99.4	P/P	50 - 150
Carbaryl	105	105	P/P	60 - 150
Carbofuran	102	99.3	P/P	50 - 150
Methiocarb	102	101	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A112389

Included Lab Sample IDs: 2328431, 2328432

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Methomyl	96.9	97.9	P/P	50 - 150
Oxamyl	102	99.9	P/P	50 - 150
Propoxur	103	103	P/P	50 - 150

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A112432

Included Lab Sample IDs: 2328418, 2328419

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

Reference Method: EPA 8270E

Run ID: A112434

Included Lab Sample IDs: 2328443, 2328444

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	105		P	80 - 120
Alachlor	101		P	80 - 120
Ametryn	104		P	80 - 120
Atrazine	98.5		P	80 - 120
Atrazine Desethyl	95.9		P	80 - 120
Azinphos Methyl	98.7		P	80 - 120
Azoxystrobin	101		P	80 - 120
Bromacil	99.8		P	80 - 120
Butylate	112		P	80 - 120
Caffeine	97.6		P	80 - 120
Carbophenothion	108		P	80 - 120
Carfentrazone Ethyl	103		P	80 - 120
Chlorfenapyr	107		P	80 - 120
Chlorpyrifos Ethyl	103		P	80 - 120
Chlorpyrifos Methyl	103		P	80 - 120
Coumaphos	100		P	80 - 120
Cyanazine	90.4		P	80 - 120
Cyprodinil	98.4		P	80 - 120
Demeton	99.2		P	80 - 120
Diazinon	99.1		P	80 - 120
Difenoconazole	100		P	80 - 120
Dimethenamid	103		P	80 - 120
Dimethomorph	95.5		P	80 - 120
Disulfoton	102		P	80 - 120
Dithiopyr	103		P	80 - 120
EPTC	96.8		P	80 - 120
Ethion	100		P	80 - 120
Ethoprop	102		P	80 - 120
Etridiazole	100		P	80 - 120
Fenamiphos	97.3		P	80 - 120
Fenbuconazole	99.7		P	80 - 120
Fipronil	106		P	80 - 120
Fipronil Sulfide	103		P	80 - 120
Fipronil Sulfone	101		P	80 - 120
Fluazifop-P-butyl	103		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A112434

Included Lab Sample IDs: 2328443, 2328444

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fludioxonil	97.4		P	80 - 120
Flumioxazin	97.3		P	80 - 120
Flutolanil	97.9		P	80 - 120
Fluxapyroxad	101		P	80 - 120
Fonofos	95.5		P	80 - 120
Hexazinone	92.0		P	80 - 120
Imazalil	102		P	80 - 120
Iprodione	92.2		P	80 - 120
Loratadine	101		P	80 - 120
Malathion	97.4		P	80 - 120
Metalaxyl	97.7		P	80 - 120
Metolachlor	106		P	80 - 120
Metribuzin	98.6		P	80 - 120
Mevinphos	99.5		P	80 - 120
Molinate	99.5		P	80 - 120
Myclobutanil	103		P	80 - 120
Naled	105		P	80 - 120
Napropamide	101		P	80 - 120
Norflurazon	98.9		P	80 - 120
Oxadiazon	108		P	80 - 120
Oxyfluorfen	95.9		P	80 - 120
Parathion Ethyl	99.0		P	80 - 120
Parathion Methyl	97.2		P	80 - 120
Pendimethalin	98.6		P	80 - 120
Phenytoin	99.1		P	80 - 120
Phorate	95.7		P	80 - 120
Prodiamine	93.4		P	80 - 120
Prometon	97.6		P	80 - 120
Prometryn	95.6		P	80 - 120
Pronamide	102		P	80 - 120
Propanil	100		P	80 - 120
Propargite	100		P	80 - 120
Propiconazole	100		P	80 - 120
Pyraflufen Ethyl	99.1		P	80 - 120
Pyridaben	101		P	80 - 120
Pyriproxyfen	102		P	80 - 120
Simazine	102		P	80 - 120
Stirophos	102		P	80 - 120
Sulfentrazone	102		P	80 - 120
Tebuconazole	96.7		P	80 - 120
Terbufos	101		P	80 - 120
Terbuthylazine	103		P	80 - 120
Thiobencarb	102		P	80 - 120
Triadimefon	100		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A112440

Included Lab Sample IDs: 2328418, 2328419

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.9	97.0	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A112442

Included Lab Sample IDs: 2328418, 2328419

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.6	96.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A112465

Included Lab Sample IDs: 2328418

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A112467

Included Lab Sample IDs: 2328419

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.0	99.2	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A112494

Included Lab Sample IDs: 2328441, 2328442

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	112		P	80 - 120
PCB-1260	96.3		P	80 - 120

Reference Method: EPA 8276

Run ID: A112512

Included Lab Sample IDs: 2328441, 2328442

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	90.7		P	80 - 120
Toxaphene	101		P	80 - 120

Reference Method: EPA 8270E

Run ID: A112519

Included Lab Sample IDs: 2328443, 2328444

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Avobenzone	101		P	80 - 120
Octinoxate	97.1		P	80 - 120
Oxybenzone	96.1		P	80 - 120

Reference Method: EPA 8270E

Run ID: A112521

Included Lab Sample IDs: 2328441, 2328442

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	101		P	80 - 120
Alpha-Chlordane	99.7		P	80 - 120
Beta-BHC	104		P	80 - 120
Beta-Cyfluthrin	94.4		P	80 - 120

Quality Assurance Report

Calibration Verification

Reference Method: EPA 8270E

Run ID: A112521

Included Lab Sample IDs: 2328441, 2328442

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bifenthrin	96.8		P	80 - 120
Chlorothalonil	106		P	80 - 120
Cis-Nonachlor	101		P	80 - 120
Cypermethrin	94.8		P	80 - 120
Dacthal	95.5		P	80 - 120
DDD-p,p'	100		P	80 - 120
DDE-p,p'	100		P	80 - 120
DDT-p,p'	103		P	80 - 120
Delta-BHC	103		P	80 - 120
Deltamethrin	92.8		P	80 - 120
Dichlobenil	107		P	80 - 120
Dicofol	99.2		P	80 - 120
Dieldrin	96.0		P	80 - 120
Endosulfan I	92.7		P	80 - 120
Endosulfan II	96.7		P	80 - 120
Endosulfan Sulfate	100		P	80 - 120
Endrin	98.1		P	80 - 120
Endrin Aldehyde	95.5		P	80 - 120
Endrin Ketone	96.0		P	80 - 120
Esfenvalerate	90.2		P	80 - 120
Ethalfuralin	98.0		P	80 - 120
Fenpropathrin	93.0		P	80 - 120
Gamma-BHC	106		P	80 - 120
Gamma-Chlordane	95.9		P	80 - 120
Heptachlor	99.2		P	80 - 120
Heptachlor Epoxide	101		P	80 - 120
Hexachlorobenzene	103		P	80 - 120
Kepone	74.3*		F	80 - 120
Lambda-Cyhalothrin	94.0		P	80 - 120
Methoprene	95.8		P	80 - 120
Methoxychlor	98.1		P	80 - 120
MGK-264	95.7		P	80 - 120
Mirex	96.0		P	80 - 120
Oxychlordane	97.8		P	80 - 120
Permethrin	96.2		P	80 - 120
Phenothrin	88.6		P	80 - 120
Piperonyl Butoxide	95.2		P	80 - 120
Prallethrin	85.6		P	80 - 120
Tau-Fluvalinate	89.6		P	80 - 120
Tetramethrin	93.5		P	80 - 120
Trans-Nonachlor	91.7		P	80 - 120
Triclosan Methyl	89.0		P	80 - 120
Trifluralin	101		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A112613

Included Lab Sample IDs: 2328418, 2328419

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	97.9	P/P	90 - 110
Kjeldahl Nitrogen	97.9	98.6	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A112615

Included Lab Sample IDs: 2328443, 2328444

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	97.8		P	80 - 120
Fipronil Desulfinyl	93.7		P	80 - 120

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	99.4					6.81	
EPA 180.1 Rev. 2.0	Turbidity	97.1					1.92	
EPA 200.7 Rev. 4.4	Calcium	102	103	98.5				1.16
	Iron	102	106	106	102			0.426
	Magnesium	103	107	107	98.2			0.0584
	Potassium	103	101	105	94.8			2.70
	Sodium	101	101	97.8				2.11
	Strontium	101	103	103	98.1			0.251
	Tin	104	102	107	101			5.35
	Titanium	101	98.8	103	98.5			4.54
	Vanadium	93.1	93.8	98.5	94.5			4.91
	Zinc	100	95.5	105	100			9.82
EPA 200.8 Rev. 5.4	Aluminum	100	101	102	98.4			0.715
	Antimony	97.6	102	103	101			0.516
	Arsenic	96.1	101	101	100			0.407
	Barium	101	104	105	103			0.423
	Beryllium	93.0	97.0	94.2	96.4			2.96
	Boron	104	103	102	105			0.656
	Cadmium	97.0	99.5	102	101			2.13
	Chromium	95.2	99.7	99.7	99.4			0.0772
	Cobalt	96.3	99.1	100	97.3			1.08
	Copper	94.0	99.1	98.2	95.6			0.850
	Lead	93.4	96.6	97.0	97.2			0.429
	Manganese	97.3	100	101	99.4			0.972
	Molybdenum	97.0	103	103	103			0.243
	Nickel	96.4	98.8	99.3	96.4			0.509
	Selenium	96.1	98.5	98.0	97.2			0.517
	Silver	97.8	97.8	98.5	95.9			0.751
	Thallium	97.1	98.6	102	99.8			3.54
EPA 300.0 Rev. 2.1	Chloride	103	96.9	99.3			0.139	
	Sulfate	103	99.6	99.5			0.0789	
EPA 350.1 Rev. 2.0	Ammonia-N	96.0	91.8	94.8				2.53
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.7	104	99.1				4.35
	Kjeldahl Nitrogen	101	99.7	108				6.39
EPA 353.2 Rev. 2.0	NO2NO3-N	100	98.6	99.0				0.421
EPA 365.1 Rev. 2.0	Total-P	101	101	99.3				1.77
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.9	97.4	99.1				1.29
EPA 8270E	Acetochlor	98.6	103	104				1.55
	Alachlor	86.4	91.2	91.4				0.235
	Aldrin	54.7	52.6	45.6				14.3
	Alpha-BHC	96.9	94.0	91.3				2.88
	Alpha-Chlordane	78.3	79.6	60.5				27.2
	Ametryn	114	126	133				5.12
	Atrazine	91.8	95.8	94.6				0.740
	Atrazine Desethyl	61.7	63.2	62.8				0.674
	Avobenzone	127	118	121				2.20
	Azinphos Methyl	152	151	147				2.19
	Azoxystrobin	113	123	118				4.28
	Beta-BHC	111	128	103				21.7
	Beta-Cyfluthrin	82.9	83.2	67.2				21.2
	Bifenthrin	63.3	82.6	66.2				22.0
	Bromacil	76.7	91.5	87.9				4.03
	Butylate	43.8	49.4	45.7				7.87
	Caffeine	69.2	84.9	90.6				6.50

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Carbophenothion	93.9	98.9	102		3.13
	Carfentrazone Ethyl	111	114	115		0.533
	Chlorfenapyr	78.2	82.4	78.3		5.07
	Chlorothalonil	128	211	159		27.8
	Chlorpyrifos Ethyl	88.5	95.1	94.0		1.20
	Chlorpyrifos Methyl	85.5	93.1	94.8		1.81
	Cis-Nonachlor	72.4	103	76.8		29.3
	Coumaphos	148	159	168		5.31
	Cyanazine	126	115	113		2.30
	Cypermethrin	80.8	109	83.1		27.1
	Cyprodinil	110	122	119		2.05
	Dacthal	82.0	96.8	84.4		13.8
	DDD-p,p'	73.7	97.0	73.8		27.2
	DDE-p,p'	80.2	74.6	62.4		17.8
	DDT-p,p'	78.9	78.2	68.6		13.0
	Delta-BHC	117	138	119		14.6
	Deltamethrin	86.0	67.7	64.0		5.59
	Demeton	83.0	94.4	91.4		3.20
	Diazinon	99.5	98.4	104		5.40
	Dichlobenil	83.5	49.4	40.1		20.8
	Dicofol	82.7	97.3	79.7		19.9
	Dieldrin	77.5	99.6	78.2		24.2
	Difenoconazole	57.4	57.4	59.3		3.26
	Dimethenamid	79.8	82.3	81.0		1.45
	Dimethomorph	95.5	98.9	103		3.59
	Disulfoton	84.5	90.6	89.5		1.20
	Dithiopyr	90.3	96.1	91.2		5.20
	Endosulfan I	76.0	77.7	68.1		13.1
	Endosulfan II	86.1	91.0	70.1		26.0
	Endosulfan Sulfate	79.4	89.2	62.6		35.0
	Endrin	79.9	74.1	67.6		9.08
	Endrin Aldehyde	81.1	89.4	54.7		48.2
	Endrin Ketone	84.5	114	73.8		42.8
	EPTC	55.6	52.9	63.0		17.3
	Esfenvalerate	85.1	99.1	69.4		35.2
	Ethalfuralin	75.3	72.6	69.8		3.90
	Ethion	83.0	86.4	83.2		3.76
	Ethoprop	88.1	90.3	90.4		0.0581
	Etridiazole	64.2	63.8	70.3		9.77
	Fenamiphos	97.0	108	110		1.77
	Fenbuconazole	146	146	149		1.67
	Fenpropathrin	73.5	81.5	62.6		26.3
	Fipronil	97.4	109	109		0.303
	Fipronil Desulfinyl	106	108	108		0.263
	Fipronil Sulfide	80.8	92.9	90.3		2.77
	Fipronil Sulfone	91.9	100	106		5.34
	Fluazifop-P-butyl	95.9	98.6	98.3		0.326
	Fludioxonil	104	109	113		3.19
	Flumioxazin	158	229	243		5.90
	Flutolanil	93.6	99.6	102		2.68
	Fluxapyroxad	83.7	79.9	77.8		2.61
	Fonofos	82.6	89.4	83.3		7.01
	Gamma-BHC	101	108	101		6.72
	Gamma-Chlordane	71.1	74.3	56.1		25.0

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Heptachlor	67.0	78.8	62.9		22.5
	Heptachlor Epoxide	76.8	123	102		19.4
	Hexachlorobenzene	80.6	65.7	63.0		4.30
	Hexazinone	97.3	106	103		2.05
	Imazalil	99.7	87.1	84.7		2.80
	Iprodione	90.8	91.1	89.8		1.42
	Kepone	176	189	68.5		93.5
	Lambda-Cyhalothrin	71.0	101	76.3		27.4
	Loratadine	85.3	90.0	101		11.1
	Malathion	99.5	112	111		1.07
	Metalaxyl	87.8	89.1	91.8		3.00
	Methoprene	68.1	90.1	65.3		31.9
	Methoxychlor	82.0	80.4	70.0		13.8
	Metolachlor	93.9	96.7	93.5		2.48
	Metribuzin	87.3	90.1	101		11.0
	Mevinphos	73.6	79.4	79.4		0.102
	MGK-264	77.3	88.4	71.5		17.8
	Mirex	64.2	75.8	60.8		22.0
	Molinate	67.9	66.3	70.5		6.10
	Myclobutanil	105	114	115		1.02
	Naled	72.0	90.9	101		10.1
	Napropamide	81.4	83.8	86.3		2.94
	Norflurazon	108	110	112		1.89
	Octinoxate	138	87.1	89.9		2.48
	Oxadiazon	83.3	87.5	87.6		0.149
	Oxybenzone	111	93.1	94.3		1.27
	Oxychlordane	72.5	70.6	55.8		23.3
	Oxyfluorfen	115	118	121		2.14
	Parathion Ethyl	94.1	94.3	96.6		2.39
	Parathion Methyl	95.2	104	107		3.34
	PCB-1016	117	91.1	117		24.5
	PCB-1260	84.1	85.1	89.2		4.73
	Pendimethalin	97.1	107	109		1.30
	Permethrin	84.2	115	86.3		28.5
	Phenothrin	61.1	61.8	67.4		8.66
	Phenytol	91.0	84.0	82.9		1.35
	Phorate	89.4	81.6	77.8		4.85
	Piperonyl Butoxide	95.8	147	114		19.7
	Prallethrin	71.2	92.2	83.8		9.63
	Prodiamine	71.9	96.1	83.6		14.0
	Prometon	102	120	104		14.9
	Prometryn	108	116	118		0.973
	Pronamide	101	106	108		1.62
	Propanil	82.4	85.3	85.8		0.558
	Propargite	143	145	148		1.52
	Propiconazole	108	117	118		1.09
	Pyraflufen Ethyl	105	112	118		5.49
	Pyridaben	137	153	156		1.98
	Pyriproxyfen	142	138	138		0.188
	Simazine	85.0	96.8	94.7		2.21
	Stirophos	84.4	94.2	91.6		2.80
	Sulfentrazone	130	87.4	84.3		3.57
	Tau-Fluvalinate	77.7	85.0	62.3		30.9
	Tebuconazole	32.0	123	122		0.547

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Terbufos	101	108	108			0.663
	Terbutylazine	85.4	90.2	89.6			0.707
	Tetramethrin	82.2	126	91.9			31.3
	Thiobencarb	85.5	87.3	87.0			0.336
	Trans-Nonachlor	73.4	78.1	62.6			22.1
	Triadimefon	80.0	87.5	84.0			4.10
	Triclosan Methyl	79.0	80.5	69.8			14.2
	Trifluralin	78.5	72.1	69.1			4.27
EPA 8276	Chlordane	85.0	82.1	92.9			11.0
	Toxaphene	95.2	106	116			8.29
EPA 8321B	2,4-D	71.0	80.9	72.4			11.2
	2,4,5-T	61.3	69.9	60.1			15.0
	3-Hydroxycarbofuran	83.7	84.8	80.0			5.86
	Acesulfame K	149	123	118			3.98
	Acetaminophen	59.2	65.0	62.9			3.33
	Acetamiprid	91.9	90.5	88.3			2.47
	Afidopyropen	65.8	61.9	58.4			5.79
	Aldicarb	73.4	71.7	62.1			14.4
	Aldicarb Sulfone	92.1	88.9	84.3			5.33
	Aldicarb Sulfoxide	87.9	67.0	60.7			9.87
	AMPA	101	111	104			5.94
	Bentazon	138	176	143			17.1
	Benzovindiflupyr	85.8	100	87.0			14.0
	Carbamazepine	95.5	112	101			10.5
	Carbaryl	66.9	49.6	47.1			5.09
	Carbofuran	78.9	62.5	60.3			3.50
	Clothianidin	99.2	94.1	85.7			9.29
	Dinotefuran	96.6	114	102			10.9
	Diuron	81.8	97.3	88.1			10.0
	Endothall	83.8	88.1	89.5			1.58
	Fenuron	101	112	98.0			13.0
	Fluridone	71.4	83.4	75.6			8.14
	Glufosinate	102	95.8	89.4			6.87
	Glyphosate	100	94.2	94.1			0.121
	Hydrocodone	92.2	108	98.8			9.01
	Ibuprofen	70.8	69.7	62.9			10.3
	Imazapyr	84.9	94.5	82.2			13.1
	Imidacloprid	83.8	110	96.4			13.5
	Linuron	68.6	71.1	67.4			5.41
	Mandestrobin	75.8	77.9	73.4			5.93
	MCPP	93.6	102	82.2			21.4
	Methiocarb	65.3	53.7	51.3			4.56
	Methomyl	83.9	70.3	69.0			1.89
	Naproxen	66.4	74.7	59.2			23.2
	Oxamyl	93.8	88.0	85.5			2.92
	Primidone	90.5	85.3	80.9			5.29
	Propoxur	79.7	64.3	60.1			6.65
	Pyraclostrobin	81.1	92.4	84.4			8.97
	Silvex	56.9	65.8	56.4			15.5
	Sucralose	98.7	99.5	101			0.699
	Thiamethoxam	97.5	110	101			8.31
	Tolfenpyrad	44.6	54.2	47.1			14.1
	Triclopyr	66.6	75.3	62.8			18.1
SM 2320 B-2011	Total Alkalinity	98.4				0.201	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
SM 2540 C-2011	TDS					6.32	
SM 4500-F- C-2011	Fluoride	96.5	97.0	97.6			0.530
SM 5310 B-2011	Organic Carbon	94.4	96.8	97.0			0.120

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2328416, 2328417
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2328416, 2328417
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2328445, 2328446
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2328445, 2328446
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2328416, 2328417
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2328416, 2328417
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2328418, 2328419
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2328418, 2328419
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2328418, 2328419
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2328418, 2328419
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2328420, 2328421
EPA 8270E	Analysis of Sunscreen Compounds in Water by GC/MS-SIM	2328443, 2328444
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2328441, 2328442
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2328443, 2328444
EPA 8270E	PCBs in water matrices by GC/MS/MS	2328441, 2328442
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2328441, 2328442
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2328431, 2328432
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2328433, 2328434
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2328416, 2328417
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2328445, 2328446
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2328416, 2328417
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2328416, 2328417
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2328416, 2328417
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2328418, 2328419

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	05/19/2022			05/19/2022 15:24	Sarah A Nixon	2328416
	05/19/2022			05/19/2022 15:26	Sarah A Nixon	2328417
EPA 180.1 Rev. 2.0	05/19/2022			05/19/2022 13:56	Anna M. Plaviak	2328416
	05/19/2022			05/19/2022 13:58	Anna M. Plaviak	2328417
EPA 200.7 Rev. 4.4	05/19/2022	05/20/2022 09:30	Megan Whitefoot	05/23/2022 22:40	Josef B Mick	2328445
	05/19/2022	05/20/2022 09:30	Megan Whitefoot	05/23/2022 22:48	Josef B Mick	2328446
EPA 200.8 Rev. 5.4	05/19/2022	05/20/2022 09:30	Megan Whitefoot	05/20/2022 20:57	Emily M Philpot	2328445
	05/19/2022	05/20/2022 09:30	Megan Whitefoot	05/20/2022 21:06	Emily M Philpot	2328446
	05/19/2022	05/20/2022 09:30	Megan Whitefoot	05/23/2022 16:47	Alexander Thompson	2328445
	05/19/2022	05/20/2022 09:30	Megan Whitefoot	05/23/2022 16:53	Alexander Thompson	2328446
	05/19/2022	05/20/2022 09:30	Megan Whitefoot	05/23/2022 16:53	Alexander Thompson	2328446
EPA 300.0 Rev. 2.1	05/19/2022			05/24/2022 07:36	Anna M. Plaviak	2328416
	05/19/2022			05/24/2022 11:03	Anna M. Plaviak	2328417
EPA 350.1 Rev. 2.0	05/19/2022			05/26/2022 13:08	Ping Hua	2328418
	05/19/2022			05/26/2022 13:10	Ping Hua	2328419
EPA 351.2 Rev. 2.0	05/19/2022	06/02/2022 15:43	Samantha L Bates	06/03/2022 12:48	Alexandra J Mattheus	2328418
	05/19/2022	06/02/2022 15:43	Samantha L Bates	06/03/2022 13:23	Alexandra J Mattheus	2328419
EPA 353.2 Rev. 2.0	05/19/2022			05/26/2022 10:52	Beverly Y. Sanders	2328418
	05/19/2022			05/26/2022 10:53	Beverly Y. Sanders	2328419
EPA 365.1 Rev. 2.0	05/19/2022	05/26/2022 15:35	Simonne.V. Calhoun	05/27/2022 14:08	Sarah A Nixon	2328418
	05/19/2022	05/26/2022 15:35	Simonne.V. Calhoun	05/27/2022 14:21	James L Waggeberby	2328419
EPA 365.1 Rev. 2.0 dissolved	05/19/2022			05/19/2022 14:08	James L Waggeberby	2328420
	05/19/2022			05/19/2022 14:12	James L Waggeberby	2328421
EPA 8270E	05/19/2022	05/23/2022 08:00	Rasheda Ghaffari	05/26/2022 01:13	Vandana T. Nagar	2328443
	05/19/2022	05/23/2022 08:00	Rasheda Ghaffari	05/26/2022 01:40	Vandana T. Nagar	2328444
	05/19/2022	05/23/2022 08:00	Rasheda Ghaffari	05/27/2022 22:59	Lipi Saha	2328443
	05/19/2022	05/23/2022 08:00	Rasheda Ghaffari	05/27/2022 23:24	Lipi Saha	2328444
	05/19/2022	05/23/2022 08:00	Rasheda Ghaffari	06/03/2022 17:10	Vandana T. Nagar	2328443
	05/19/2022	05/23/2022 08:00	Rasheda Ghaffari	06/03/2022 17:36	Vandana T. Nagar	2328444
	05/19/2022	05/23/2022 08:00	Rasheda Ghaffari	06/03/2022 18:56	Vandana T. Nagar	2328443
	05/19/2022	05/24/2022 08:00	Fe-Val Siddell	05/26/2022 22:58	Arthur Maknenko	2328441
	05/19/2022	05/24/2022 08:00	Fe-Val Siddell	05/26/2022 23:28	Arthur Maknenko	2328442
	05/19/2022	05/24/2022 08:00	Fe-Val Siddell	05/28/2022 20:32	Michael Poppell	2328442
	05/19/2022	05/24/2022 08:00	Fe-Val Siddell	05/28/2022 21:01	Michael Poppell	2328441
	05/19/2022	05/24/2022 08:00	Fe-Val Siddell	05/28/2022 05:52	Julie Wi	2328441
	05/19/2022	05/24/2022 08:00	Fe-Val Siddell	05/28/2022 06:48	Julie Wi	2328442
	05/19/2022	05/24/2022 08:00	Fe-Val Siddell	05/28/2022 06:48	Julie Wi	2328442
EPA 8276	05/19/2022	05/24/2022 08:00	Fe-Val Siddell	05/28/2022 05:52	Julie Wi	2328441
EPA 8321B	05/19/2022	05/19/2022 15:00	June Rhew	05/21/2022 11:26	Juyoung Kim	2328433
	05/19/2022	05/19/2022 15:00	June Rhew	05/21/2022 12:01	Juyoung Kim	2328434
	05/19/2022	05/20/2022 14:00	Manjita Shrestha	05/21/2022 20:04	Manjita Shrestha	2328433
	05/19/2022	05/20/2022 14:00	Manjita Shrestha	05/21/2022 20:19	Manjita Shrestha	2328434
	05/19/2022	05/20/2022 14:00	Manjita Shrestha	05/22/2022 09:50	Manjita Shrestha	2328433

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	05/19/2022	05/20/2022 14:00	Manjita Shrestha	05/22/2022 10:03	Manjita Shrestha	2328434
	05/19/2022	05/20/2022 14:00	Manjita Shrestha	05/23/2022 11:55	Manjita Shrestha	2328433
	05/19/2022	05/24/2022 08:30	June Rhew	05/24/2022 22:46	Juyoung Kim	2328431
	05/19/2022	05/24/2022 08:30	June Rhew	05/24/2022 23:21	Juyoung Kim	2328432
SM 2320 B-2011	05/19/2022			05/21/2022 10:23	Dale L. Simmons	2328416
	05/19/2022			05/21/2022 10:33	Dale L. Simmons	2328417
SM 2340 B-2011	05/19/2022			05/23/2022 22:40	Josef B Mick	2328445
	05/19/2022			05/23/2022 22:48	Josef B Mick	2328446
SM 2540 C-2011	05/19/2022			05/20/2022 16:02	Yijie Li	2328416, 2328417
SM 2540 D-2011	05/19/2022			05/20/2022 16:02	Yijie Li	2328416, 2328417
SM 4500-F- C-2011	05/19/2022			05/21/2022 10:23	Dale L. Simmons	2328416
	05/19/2022			05/21/2022 10:33	Dale L. Simmons	2328417
SM 5310 B-2011	05/19/2022			05/26/2022 09:46	Khloe J Berg	2328418
	05/19/2022			05/26/2022 10:00	Khloe J Berg	2328419