

Chemical Analysis Report

NE-DIST-2023-03-01-01

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

Event Description: **SCI Rushing Creek**
Request ID: **RQ-2023-01-30-32**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Suite 100
Jacksonville, FL 32256
Attn: Jeremy Parrish

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Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 22-MAR-2023 13:37

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive, flowing style with a horizontal line extending from the end of the name.

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: Cormorant Branch @ Marbon Rd

Collection Date/Time: 02/28/2023 11:25

Field ID: 20030852

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2390677	DEP SOP: NU-094-1	Color (true)	53	A	PCU	P426555	
	EPA 180.1 Rev. 2.0	Turbidity	6.4		NTU	P426566	
	EPA 300.0 Rev. 2.1	Chloride	27		mg Cl/L	P426998	
		Sulfate	22		mg SO4/L	P427001	
	SM 2320 B-2011	Total Alkalinity	83		mg CaCO3/L	P426828	
	SM 2540 C-2015	TDS	173		mg/L	P427176	
	SM 2540 D-2015	TSS	2	I	mg/L	P426964	
2390678	SM 4500-F- C-2011	Fluoride	0.12		mg F/L	P426977	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.048		mg N/L	P426729	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.37		mg N/L	P426845	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.22		mg N/L	P426791	
	EPA 365.1 Rev. 2.0	Total-P	0.073		mg P/L	P426630	
2390679	SM 5310 B-2011	Organic Carbon	6.2		mg C/L	P426852	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.038		mg P/L	P426556	
2390691	EPA 8321B	2,4-D	0.0045	I	ug/L	P426469	
		Acesulfame K	0.15	I	ug/L	P426535	
		2,4,5-T	0.0040	U	ug/L	P426469	
		AMPA	0.18	I	ug/L	P426535	
		Acetaminophen	0.0080	U	ug/L	P426469	
		Acetamiprid	0.0020	U	ug/L	P426469	
		Endothall	0.25	U	ug/L	P426535	
		Glufosinate	0.10	U	ug/L	P426535	
		Glyphosate	0.25	I	ug/L	P426535	
		Afidopyropen	0.0020	U	ug/L	P426586	RPD
		Bentazon	0.074		ug/L	P426469	
		Sucralose	0.21		ug/L	P426535	
		Benzovindiflupyr	0.0020	U	ug/L	P426469	
		Carbamazepine	0.0017	I	ug/L	P426469	
		Clothianidin	0.0020	U	ug/L	P426469	
		Dinotefuran	0.0020	U	ug/L	P426469	
		Diuron	0.016		ug/L	P426469	
		Fenuron	0.032	U	ug/L	P426469	
		Fluridone	0.015		ug/L	P426469	
		Imazapyr	0.39		ug/L	P426469	
		Hydrocodone	0.0020	U	ug/L	P426469	
		Ibuprofen	0.080	U	ug/L	P426469	
		Imidacloprid	0.0067	I	ug/L	P426469	
		Linuron	0.0040	U	ug/L	P426469	
		Mandestrobin	0.0020	U	ug/L	P426469	
		MCP	0.0020	U	ug/L	P426469	
		Naproxen	0.0080	U	ug/L	P426469	
		Primidone	0.0079	I	ug/L	P426469	
		Pyraclostrobin	0.0020	U	ug/L	P426469	

Field ID: 20030852

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2390691	EPA 8321B	Silvex	0.0040	U	ug/L	P426469	
		Thiamethoxam	0.0020	U	ug/L	P426469	
		Tolfenpyrad	0.0020	U	ug/L	P426469	
		Triclopyr	0.0040	U	ug/L	P426469	
2390692	EPA 200.7 Rev. 4.4	Calcium	34.8		mg/L	P426646	
		Iron	1.48E+03		ug/L	P426646	
		Magnesium	7.48		mg/L	P426646	
		Potassium	2.2		mg/L	P426646	
		Sodium	16.8		mg/L	P426646	
		Strontium	443		ug/L	P426646	
		Tin	3.0	U	ug/L	P426646	
		Titanium	0.75	U	ug/L	P426646	
		Vanadium	2.0	U	ug/L	P426646	
		Zinc	5.0	U	ug/L	P426646	
	EPA 200.8 Rev. 5.4	Aluminum	18	I	ug/L	P426646	
		Antimony	0.073	I	ug/L	P426646	
		Arsenic	1.18		ug/L	P426646	
		Barium	43.9		ug/L	P426646	
		Beryllium	0.011	I	ug/L	P426646	
		Boron	27.1		ug/L	P426646	
		Cadmium	0.020	U	ug/L	P426646	
		Chromium	0.40	U	ug/L	P426646	
		Cobalt	0.199		ug/L	P426646	
		Copper	0.75	I	ug/L	P426646	
		Lead	0.20	U	ug/L	P426646	
		Manganese	82.7		ug/L	P426646	
		Molybdenum	0.20	I	ug/L	P426646	
		Nickel	0.50	U	ug/L	P426646	
		Selenium	0.20	U	ug/L	P426646	
		Silver	0.010	U	ug/L	P426646	
		Thallium	0.10	U	ug/L	P426646	
	SM 2340 B-2011	Hardness	118		mg/L	P426646	
2390699	EPA 8270E	Oxybenzone**	9.5	U	ng/L	P426511	
		Acetochlor	0.19	U	ng/L	P426511	
		Octinoxate**	19	U	ng/L	P426511	
		Alachlor	0.38	U	ng/L	P426511	
		Avobenzone**	95	U	ng/L	P426511	
		Ametryn	5.9		ng/L	P426511	
		Atrazine	40	J	ng/L	P426511	LCS, MS
		PBDE-47**	3.8	U	ng/L	P426511	
		Atrazine Desethyl	7.8		ng/L	P426511	
		PBDE-99**	4.8	U	ng/L	P426511	
		Azinphos Methyl	2.9	U	ng/L	P426511	
		Tri-o-cresyl Phosphate**	5.7	U	ng/L	P426511	
		Azoxystrobin	0.80	I	ng/L	P426511	

Field ID: 20030852

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2390699	EPA 8270E	Bromacil	24		ng/L	P426511	
		2-Ethylhexyl	11	U	ng/L	P426511	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.19	U	ng/L	P426511	
		Dechlorane Plus**	29	U	ng/L	P426511	
		Caffeine**	20	I	ng/L	P426511	
		Dechlorane 602**	4.8	U	ng/L	P426511	
		Carbophenothion	0.48	U	ng/L	P426511	
		Dechlorane 603**	3.8	U	ng/L	P426511	
		Carfentrazone Ethyl	0.14	U	ng/L	P426511	
		Hexabromobenzene**	5.7	U	ng/L	P426511	
		Chlorfenapyr	0.29	U	ng/L	P426511	
		PBB-153**	7.6	U	ng/L	P426511	
		Chlorpyrifos Ethyl	0.29	U	ng/L	P426511	
		Pentabromotoluene**	2.9	U	ng/L	P426511	
		Chlorpyrifos Methyl	0.095	U	ng/L	P426511	
		Tris(2-chloroethyl) phosphate (TCEP)**	67	U	ng/L	P426511	
		Coumaphos	1.0	U	ng/L	P426511	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	84	V	ng/L	P426511	
		Cyanazine	4.8	U	ng/L	P426511	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	7.0	I	ng/L	P426511	
		Cyprodinil	0.19	U	ng/L	P426511	
		Tetradecachloro-m-terphenyl**	7.1	U	ng/L	P426511	
		Demeton	3.3	U	ng/L	P426511	
		Diazinon	0.12	U	ng/L	P426511	
		Difenoconazole	0.57	U	ng/L	P426511	
		Dimethenamid	0.095	U	ng/L	P426511	
		Dimethomorph	0.29	U	ng/L	P426511	
		Disulfoton	0.57	U	ng/L	P426511	
		Dithiopyr	0.95	U	ng/L	P426511	
		EPTC	0.48	UJ	ng/L	P426511	LCS, RPD
		Ethion	0.29	U	ng/L	P426511	
		Ethoprop	0.12	U	ng/L	P426511	
		Etridiazole	0.095	U	ng/L	P426511	
		Fenamiphos	0.43	U	ng/L	P426511	
		Fenbuconazole	0.48	U	ng/L	P426511	
		Fipronil	0.85	I	ng/L	P426511	
		Fipronil Desulfinyl**	2.0		ng/L	P426511	
		Fipronil Sulfide	3.0		ng/L	P426511	
		Fipronil Sulfone	5.6		ng/L	P426511	
		Fluazifop-P-butyl	0.095	U	ng/L	P426511	
		Fludioxonil	0.095	U	ng/L	P426511	
		Flumioxazin	4.9	I	ng/L	P426511	
		Flutolanil	0.095	U	ng/L	P426511	
		Fluxapyroxad	0.24	U	ng/L	P426511	

Field ID: 20030852

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2390699	EPA 8270E	Fonofos	0.14	U	ng/L	P426511	RPD
		Hexazinone	7.2		ng/L	P426511	MS
		Imazalil	0.62	U	ng/L	P426511	
		Iprodione	0.48	U	ng/L	P426511	
		Loratadine**	0.29	U	ng/L	P426511	
		Malathion	0.33	U	ng/L	P426511	
		Metalaxyl	0.48	U	ng/L	P426511	
		Metolachlor	0.71	U	ng/L	P426511	
		Metribuzin	0.38	UJ	ng/L	P426511	LCS
		Mevinphos	0.95	U	ng/L	P426511	RPD
		Molinate	0.24	U	ng/L	P426511	MS
		Myclobutanil	12		ng/L	P426511	
		Naled	2.4	U	ng/L	P426511	
		Napropamide	0.67	U	ng/L	P426511	
		Norflurazon	0.95	U	ng/L	P426511	
		Oxadiazon	0.40	I	ng/L	P426511	
		Oxyfluorfen	0.19	U	ng/L	P426511	
		Parathion Ethyl	0.14	UJ	ng/L	P426511	LCS, MS
		Parathion Methyl	0.19	U	ng/L	P426511	
		Pendimethalin	0.71	U	ng/L	P426511	
		Phenytol**	5.0	U	ng/L	P426511	
		Phorate	0.24	U	ng/L	P426511	
		Prodiamine	0.24	I	ng/L	P426511	
		Prometon	2.9	U	ng/L	P426511	
		Prometryn	0.33	U	ng/L	P426511	
		Pronamide	0.095	U	ng/L	P426511	
		Propanil	0.095	U	ng/L	P426511	
		Propargite	0.76	U	ng/L	P426511	
		Propiconazole	4.5		ng/L	P426511	
		Pyraflufen Ethyl	0.29	U	ng/L	P426511	
		Pyridaben	1.3	U	ng/L	P426511	
		Pyriproxyfen	0.24	U	ng/L	P426511	
		Simazine	18		ng/L	P426511	
		Stirophos	0.38	U	ng/L	P426511	
		Sulfentrazone	13		ng/L	P426511	
		Tebuconazole	1.3	U	ng/L	P426511	
		Terbufos	0.19	U	ng/L	P426511	
		Terbuthylazine	0.19	U	ng/L	P426511	MS
		Thiobencarb	0.48	U	ng/L	P426511	
		Triadimefon	0.14	U	ng/L	P426511	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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

EPA 8270E: V - Due to the presence of tris(1-chloro-2-propyl) phosphate (TCPP) in both the Method Blank and the 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: P426555

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P426566

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P426646

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: P426646

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: P426998

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: P427001

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426729

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426845

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426791

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426630

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P426556

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

Reference Method: EPA 8270E
Batch ID: P426511

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azinphos Methyl	3.0	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P426511

Component	Result	Code	Units
Azoxystrobin	0.40	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.20	U	ng/L
Butylate	0.20	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Etridiazole	0.10	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P426511

Component	Result	Code	Units
Fenamiphos	0.45	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Napropamide	0.70	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P426511

Component	Result	Code	Units
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	8.0	U	ng/L
PBB-153	8.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	0.75	U	ng/L
Pendimethalin	0.75	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Stirophos	0.40	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P426511

Component	Result	Code	Units
Sulfentrazone	1.4	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbufos	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	17	I	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L

Reference Method: EPA 8321B

Batch ID: P426469

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
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P426469

Component	Result	Code	Units
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P426535

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: P426586

Component	Result	Code	Units
Afidopyropen	0.0020	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P426828

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

Reference Method: SM 2540 C-2015
Batch ID: P427176

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P426964

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P426977

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P426852

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: P426555

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P426566

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P426646

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	110		P	85 - 115
Iron	109		P	85 - 115
Magnesium	110		P	85 - 115
Potassium	105		P	85 - 115
Sodium	106		P	85 - 115
Strontium	102		P	85 - 115
Tin	104		P	85 - 115
Titanium	106		P	85 - 115
Vanadium	102		P	85 - 115
Zinc	102		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P426646

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	99.9		P	85 - 115
Antimony	102		P	85 - 115
Arsenic	102		P	85 - 115
Barium	103		P	85 - 115
Beryllium	99.6		P	85 - 115
Boron	101		P	85 - 115
Cadmium	104		P	85 - 115
Chromium	100		P	85 - 115
Cobalt	100		P	85 - 115
Copper	100		P	85 - 115
Lead	99.2		P	85 - 115
Manganese	102		P	85 - 115
Molybdenum	101		P	85 - 115
Nickel	102		P	85 - 115
Selenium	105		P	85 - 115
Silver	100		P	85 - 115
Thallium	102		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426998

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.1		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427001

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426729

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426845

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	107		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426791

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426630

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	99.9		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P426556

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.2		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P426511

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	92.2		P	42 - 162
Acetochlor	89.7		P	69 - 123
Alachlor	70.9		P	65 - 118
Ametryn	92.2		P	58 - 141
Atrazine	59.8		F	73 - 118
Atrazine Desethyl	51.0		P	32 - 125
Avobenzone	113		P	40 - 203
Azinphos Methyl	194		P	36 - 197
Azoxystrobin	77.7		P	58 - 226
Bromacil	75.4		P	48 - 120
Butylate	35.4		P	27 - 85.0
Caffeine	90.7		P	40 - 137
Carbophenothion	63.0		P	54 - 132
Carfentrazone Ethyl	62.0		P	60 - 142
Chlorfenapyr	60.5		P	53 - 117
Chlorpyrifos Ethyl	75.9		P	59 - 116

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P426511

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	96.6		P	66 - 119
Coumaphos	135		P	11 - 234
Cyanazine	135		P	61 - 248
Cyprodinil	73.0		P	50 - 147
Dechlorane 602	97.8		P	50 - 150
Dechlorane 603	96.4		P	50 - 150
Dechlorane Plus	123		P	47 - 182
Demeton	45.3		P	30 - 138
Diazinon	91.3		P	67 - 126
Difenoconazole	157		P	38 - 205
Dimethenamid	77.6		P	57 - 111
Dimethomorph	37.0		P	16 - 212
Disulfoton	62.6		P	46 - 126
Dithiopyr	69.5		P	62 - 115
EPTC	25.8		F	28 - 80.0
Ethion	61.6		P	24 - 122
Ethoprop	92.5		P	62 - 113
Etridiazole	63.7		P	28 - 92.0
Fenamiphos	89.3		P	57 - 128
Fenbuconazole	113		P	52 - 155
Fipronil	85.6		P	63 - 130
Fipronil Desulfinyl	78.4		P	61 - 130
Fipronil Sulfide	79.5		P	56 - 117
Fipronil Sulfone	60.9		P	52 - 118
Fluazifop-P-butyl	76.0		P	61 - 128
Fludioxonil	80.7		P	59 - 129
Flumioxazin	166		P	30 - 250
Flutolanil	76.3		P	53 - 127
Fluxapyroxad	42.8		P	42 - 132
Fonofos	82.2		P	61 - 110
Hexabromobenzene	131		P	50 - 150
Hexazinone	65.2		P	46 - 139
Imazalil	49.8		P	40 - 139
Iprodione	109		P	40 - 146
Loratadine	24.5		P	10 - 224
Malathion	97.7		P	61 - 135
Metaxyl	88.0		P	58 - 121
Metolachlor	65.6		P	64 - 118
Metribuzin	41.2		F	45 - 245
Mevinphos	81.1		P	49 - 118
Molinate	44.6		P	42 - 92.0
Myclobutanil	69.3		P	55 - 127
Naled	52.5		P	10 - 114
Napropamide	62.5		P	39 - 121
Norflurazon	76.3		P	55 - 129
Octinoxate	97.4		P	26 - 166
Oxadiazon	67.8		P	54 - 115
Oxybenzone	96.5		P	49 - 135
Oxyfluorfen	71.9		P	64 - 139
Parathion Ethyl	60.4		F	70 - 111
Parathion Methyl	77.1		P	76 - 136
PBB-153	124		P	50 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P426511

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBDE-47	85.7		P	41 - 148
PBDE-99	81.4		P	38 - 147
Pendimethalin	90.7		P	52 - 118
Pentabromotoluene	125		P	50 - 150
Phenytoin	73.9		P	10 - 162
Phorate	70.4		P	40 - 122
Prodiamine	74.7		P	26 - 141
Prometon	82.6		P	54 - 122
Prometryn	72.8		P	61 - 128
Pronamide	85.4		P	72 - 121
Propanil	56.9		P	45 - 144
Propargite	57.0		P	10 - 199
Propiconazole	60.4		P	56 - 127
Pyraflufen Ethyl	72.4		P	56 - 140
Pyridaben	94.5		P	26 - 211
Pyriproxyfen	42.6		P	33 - 194
Simazine	89.0		P	67 - 121
Stirophos	91.5		P	20 - 142
Sulfentrazone	107		P	21 - 144
Tebuconazole	69.0		P	10 - 122
Terbufos	67.6		P	60 - 129
Terbutylazine	75.6		P	69 - 113
Tetradecachloro-m-terphenyl	153		P	70 - 200
Thiobencarb	69.2		P	51 - 120
Tri-o-cresyl Phosphate	100		P	49 - 150
Triadimefon	57.0		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	148		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	127		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	134		P	70 - 180

Reference Method: EPA 8321B

Batch ID: P426469

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	122		P	40 - 150
2,4,5-T	91.9		P	40 - 150
Acetaminophen	113		P	30 - 150
Acetamiprid	88.1		P	40 - 150
Bentazon	122		P	30 - 150
Benzovindiflupyr	89.4		P	40 - 150
Carbamazepine	85.4		P	40 - 150
Clothianidin	87.3		P	40 - 150
Dinotefuran	108		P	40 - 150
Diuron	81.4		P	40 - 150
Fenuron	91.3		P	40 - 150
Fluridone	77.6		P	40 - 150
Hydrocodone	86.6		P	40 - 150
Ibuprofen	81.5		P	40 - 150
Imazapyr	98.5		P	40 - 150
Imidacloprid	104		P	40 - 150
Linuron	74.9		P	40 - 150
Mandestrobin	85.5		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P426469

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
MCPPE	107		P	40 - 150
Naproxen	110		P	40 - 150
Primidone	91.8		P	40 - 150
Pyraclostrobin	81.1		P	40 - 150
Silvex	106		P	40 - 150
Thiamethoxam	97.0		P	40 - 150
Tolfenpyrad	58.8		P	30 - 150
Triclopyr	106		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P426535

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	97.8		P	40 - 150
AMPA	106		P	40 - 150
Endothall	96.7		P	40 - 150
Glufosinate	105		P	40 - 150
Glyphosate	95.9		P	40 - 150
Sucralose	98.4		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P426586

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Afidopyropen	60.2		P	30 - 150

Reference Method: SM 2320 B-2011
Batch ID: P426828

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.4		P	94 - 106

Reference Method: SM 2540 C-2015
Batch ID: P427176

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	95.1		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P426964

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	99.5		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P426977

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.6		P	96 - 104

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P426852

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.5		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P426646

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390788	Calcium	109		P	80 - 120
2390788	Iron	105	112	P/P	80 - 120
2390788	Magnesium	110		P	80 - 120
2390788	Potassium	98.2	104	P/P	80 - 120
2390788	Sodium	99.9	110	P/P	80 - 120
2390788	Strontium	98.7	105	P/P	80 - 120
2390788	Tin	101	105	P/P	80 - 120
2390788	Titanium	105	110	P/P	80 - 120
2390788	Vanadium	101	106	P/P	80 - 120
2390788	Zinc	97.3	102	P/P	80 - 120
2391077	Calcium	112		P	80 - 120
2391077	Iron	113		P	80 - 120
2391077	Magnesium	118		P	80 - 120
2391077	Potassium	108		P	80 - 120
2391077	Sodium	107		P	80 - 120
2391077	Strontium	107		P	80 - 120
2391077	Tin	106		P	80 - 120
2391077	Titanium	106		P	80 - 120
2391077	Vanadium	105		P	80 - 120
2391077	Zinc	101		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P426646

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390788	Aluminum	101	100	P/P	80 - 120
2390788	Antimony	104	105	P/P	80 - 120
2390788	Arsenic	105	105	P/P	80 - 120
2390788	Barium	104	105	P/P	80 - 120
2390788	Beryllium	99.2	99.2	P/P	80 - 120
2390788	Boron	102	102	P/P	80 - 120
2390788	Cadmium	105	105	P/P	80 - 120
2390788	Chromium	102	102	P/P	80 - 120
2390788	Cobalt	100	99.3	P/P	80 - 120
2390788	Copper	98.7	99.2	P/P	80 - 120
2390788	Lead	99.7	100	P/P	80 - 120
2390788	Manganese	104	103	P/P	80 - 120
2390788	Molybdenum	102	103	P/P	80 - 120
2390788	Nickel	101	101	P/P	80 - 120
2390788	Selenium	105	105	P/P	80 - 120
2390788	Silver	101	102	P/P	80 - 120
2390788	Thallium	102	105	P/P	80 - 120
2391077	Aluminum	99.7		P	80 - 120
2391077	Antimony	102		P	80 - 120
2391077	Arsenic	103		P	80 - 120
2391077	Barium	104		P	80 - 120
2391077	Beryllium	96.8		P	80 - 120
2391077	Boron	101		P	80 - 120
2391077	Cadmium	105		P	80 - 120
2391077	Chromium	102		P	80 - 120
2391077	Cobalt	99.9		P	80 - 120
2391077	Copper	101		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P426646

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2391077	Lead	101		P	80 - 120
2391077	Manganese	104		P	80 - 120
2391077	Molybdenum	99.6		P	80 - 120
2391077	Nickel	101		P	80 - 120
2391077	Selenium	106		P	80 - 120
2391077	Silver	99.9		P	80 - 120
2391077	Thallium	103		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426998

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390557	Chloride	96.7		P	90 - 110
2390614	Chloride	95.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427001

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390557	Sulfate	100		P	90 - 110
2390614	Sulfate	99.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426729

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390652	Ammonia-N	97.6	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426845

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390683	Kjeldahl Nitrogen	103	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426791

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390643	NO2NO3-N	101	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426630

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390678	Total-P	101	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P426556

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390620	O-Phosphate-P	97.7	98.1	P/P	90 - 110

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P426511

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390328	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	89.1	99.1	P/P	26 - 165
2390328	Acetochlor	67.9	83.3	P/P	67 - 124
2390328	Alachlor	66.0	67.3	P/P	60 - 120
2390328	Ametryn	88.3	94.5	P/P	54 - 216
2390328	Atrazine	58.9	65.2	F/F	66 - 128
2390328	Atrazine Desethyl	37.8	49.4	P/P	15 - 122
2390328	Avobenzone	94.1	104	P/P	37 - 178
2390328	Azinphos Methyl	150	162	P/P	40 - 292
2390328	Azoxystrobin	51.6	57.2	P/P	35 - 220
2390328	Bromacil	57.7	78.0	P/P	45 - 127
2390328	Butylate	30.0	41.9	P/P	20 - 83.0
2390328	Caffeine	65.3	98.7	P/P	10 - 194
2390328	Carbophenothion	96.4	103	P/P	57 - 127
2390328	Carfentrazone Ethyl	59.2	61.8	P/P	51 - 141
2390328	Chlorfenapyr	52.9	57.9	P/P	46 - 111
2390328	Chlorpyrifos Ethyl	57.6	67.0	P/P	52 - 120
2390328	Chlorpyrifos Methyl	68.7	71.0	P/P	63 - 119
2390328	Coumaphos	105	123	P/P	10 - 228
2390328	Cyanazine	103	124	P/P	59 - 241
2390328	Cyprodinil	67.3	66.0	P/P	47 - 146
2390328	Dechlorane 602	65.6	71.1	P/P	50 - 150
2390328	Dechlorane 603	60.4	66.3	P/P	50 - 150
2390328	Dechlorane Plus	100	112	P/P	50 - 150
2390328	Demeton	43.9	45.0	P/P	40 - 136
2390328	Diazinon	102	126	P/P	69 - 132
2390328	Difenoconazole	124	141	P/P	57 - 258
2390328	Dimethenamid	54.5	69.6	P/P	54 - 110
2390328	Dimethomorph	35.3	40.4	P/P	28 - 210
2390328	Disulfoton	58.6	68.2	P/P	43 - 133
2390328	Dithiopyr	58.8	62.1	P/P	39 - 116
2390328	EPTC	20.9	37.9	P/P	20 - 78.0
2390328	Ethion	56.3	56.5	P/P	17 - 119
2390328	Ethoprop	75.3	97.7	P/P	66 - 120
2390328	Etridiazole	31.8	41.1	P/P	28 - 96.0
2390328	Fenamiphos	63.7	78.0	P/P	41 - 126
2390328	Fenbuconazole	106	119	P/P	42 - 169
2390328	Fipronil	70.8	75.2	P/P	61 - 132
2390328	Fipronil Desulfinyl	64.6	77.7	P/P	56 - 132
2390328	Fipronil Sulfide	66.7	70.8	P/P	48 - 119
2390328	Fipronil Sulfone	55.6	55.4	P/P	42 - 131
2390328	Fluazifop-P-butyl	72.4	68.5	P/P	53 - 131
2390328	Fludioxonil	75.6	83.9	P/P	56 - 127
2390328	Flumioxazin	116	144	P/P	19 - 300
2390328	Flutolanil	51.9	67.8	P/P	41 - 127
2390328	Fluxapyroxad	52.9	46.2	P/P	42 - 172
2390328	Fonofos	59.8	81.5	P/P	59 - 113
2390328	Hexabromobenzene	133	140	P/P	50 - 150
2390328	Hexazinone	62.8	60.5	F/F	66 - 122
2390328	Imazalil	37.2	41.0	P/P	21 - 283
2390328	Iprodione	77.3	91.5	P/P	43 - 150
2390328	Loratadine	28.1	26.3	P/P	23 - 201
2390328	Malathion	83.2	88.5	P/P	58 - 136

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P426511

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390328	Metalaxyl	55.5	70.3	P/P	55 - 120
2390328	Metolachlor	58.6	74.0	P/P	57 - 121
2390328	Metribuzin	64.7	67.1	P/P	58 - 294
2390328	Mevinphos	62.0	83.8	P/P	50 - 126
2390328	Molinate	37.4	50.0	F/P	42 - 93.0
2390328	Myclobutanil	66.4	71.8	P/P	55 - 125
2390328	Naled	41.4	56.9	P/P	18 - 200
2390328	Napropamide	45.8	49.7	P/P	39 - 110
2390328	Norflurazon	61.3	76.7	P/P	48 - 128
2390328	Octinoxate	86.6	99.0	P/P	21 - 159
2390328	Oxadiazon	58.0	58.9	P/P	43 - 112
2390328	Oxybenzone	84.3	99.4	P/P	41 - 142
2390328	Oxyfluorfen	65.2	70.5	P/P	64 - 153
2390328	Parathion Ethyl	51.0	52.9	F/F	69 - 114
2390328	Parathion Methyl	102	111	P/P	79 - 139
2390328	PBB-153	92.0	101	P/P	50 - 150
2390328	PBDE-47	81.2	89.3	P/P	27 - 144
2390328	PBDE-99	78.3	85.4	P/P	18 - 150
2390328	Pendimethalin	85.3	84.1	P/P	50 - 139
2390328	Pentabromotoluene	123	133	P/P	50 - 150
2390328	Phenytoin	67.1	77.8	P/P	10 - 146
2390328	Phorate	55.0	59.1	P/P	54 - 161
2390328	Prodiamine	63.3	68.7	P/P	30 - 161
2390328	Prometon	87.5	77.8	P/P	45 - 134
2390328	Prometryn	50.9	59.7	P/P	45 - 137
2390328	Pronamide	67.0	85.2	P/P	65 - 133
2390328	Propanil	50.2	57.0	P/P	49 - 142
2390328	Propargite	49.1	51.8	P/P	10 - 203
2390328	Propiconazole	53.1	69.2	P/P	38 - 146
2390328	Pyraflufen Ethyl	59.8	78.8	P/P	34 - 153
2390328	Pyridaben	68.3	65.8	P/P	12 - 192
2390328	Pyriproxyfen	51.5	43.2	P/P	33 - 180
2390328	Simazine	104	124	P/P	51 - 157
2390328	Stirophos	73.3	72.6	P/P	10 - 128
2390328	Sulfentrazone	89.8	109	P/P	53 - 186
2390328	Tebuconazole	65.4	71.4	P/P	10 - 133
2390328	Terbufos	98.4	119	P/P	65 - 139
2390328	Terbutylazine	54.6	70.6	F/P	66 - 117
2390328	Tetradecachloro-m-terphenyl	108	113	P/P	70 - 200
2390328	Thiobencarb	56.9	66.4	P/P	51 - 119
2390328	Tri-o-cresyl Phosphate	88.6	100	P/P	31 - 144
2390328	Triadimefon	48.1	48.9	P/P	48 - 119
2390328	Tris(1-chloro-2-propyl) phosphate (TCPP)	118	130	P/P	50 - 150
2390328	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	119	126	P/P	50 - 150
2390328	Tris(2-chloroethyl) phosphate (TCEP)	127	143	P/P	70 - 180

Reference Method: EPA 8321B

Batch ID: P426469

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390647	2,4-D	97.0	110	P/P	40 - 150
2390647	2,4,5-T	98.0	98.3	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P426469

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390647	Acetaminophen	114	118	P/P	30 - 150
2390647	Acetamiprid	53.6	59.2	P/P	40 - 150
2390647	Bentazon	78.7	78.8	P/P	30 - 150
2390647	Benzovindiflupyr	75.4	76.0	P/P	40 - 150
2390647	Carbamazepine	58.2	60.3	P/P	40 - 150
2390647	Clothianidin	77.9	81.3	P/P	40 - 150
2390647	Dinotefuran	95.9	96.1	P/P	40 - 150
2390647	Diuron	49.0	48.0	P/P	40 - 150
2390647	Fenuron	56.5	58.0	P/P	40 - 150
2390647	Fluridone	55.8	51.4	P/P	40 - 150
2390647	Hydrocodone	73.8	74.6	P/P	40 - 150
2390647	Ibuprofen	72.2	88.4	P/P	40 - 150
2390647	Imazapyr	98.9	106	P/P	40 - 150
2390647	Imidacloprid	101	106	P/P	40 - 150
2390647	Linuron	62.1	61.3	P/P	40 - 150
2390647	Mandestrobin	68.3	77.1	P/P	40 - 150
2390647	MCCP	94.6	103	P/P	40 - 150
2390647	Naproxen	61.4	69.5	P/P	40 - 150
2390647	Primidone	78.9	79.3	P/P	40 - 150
2390647	Pyraclostrobin	70.8	71.2	P/P	40 - 150
2390647	Silvex	103	109	P/P	40 - 150
2390647	Thiamethoxam	84.1	81.4	P/P	40 - 150
2390647	Tolfenpyrad	52.6	51.0	P/P	30 - 150
2390647	Triclopyr	104	104	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P426535

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390312	Acesulfame K	123	126	P/P	40 - 150
2390312	AMPA	88.2	89.8	P/P	40 - 150
2390312	Endothall	106	106	P/P	40 - 150
2390312	Glufosinate	102	100	P/P	40 - 150
2390312	Glyphosate	96.2	111	P/P	40 - 150
2390312	Sucralose	96.8	98.6	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P426586

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2391073	Afidopyropen	73.1	39.7	P/P	30 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P426977

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390782	Fluoride	98.7	97.3	P/P	94 - 104

Reference Method: SM 5310 B-2011

Batch ID: P426852

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

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P426852

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390617	Organic Carbon	96.2	99.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P426555

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390677	Color (true)	2.54	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P426566

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390629	Turbidity	9.45	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P426646

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390788	Calcium	5.70	Spike	P	0 - 20
2390788	Iron	5.97	Spike	P	0 - 20
2390788	Magnesium	5.95	Spike	P	0 - 20
2390788	Potassium	5.53	Spike	P	0 - 20
2390788	Sodium	5.29	Spike	P	0 - 20
2390788	Strontium	6.01	Spike	P	0 - 20
2390788	Tin	4.55	Spike	P	0 - 20
2390788	Titanium	4.07	Spike	P	0 - 20
2390788	Vanadium	4.69	Spike	P	0 - 20
2390788	Zinc	3.80	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P426646

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390788	Aluminum	0.178	Spike	P	0 - 20
2390788	Antimony	1.54	Spike	P	0 - 20
2390788	Arsenic	0.490	Spike	P	0 - 20
2390788	Barium	1.16	Spike	P	0 - 20
2390788	Beryllium	0.0194	Spike	P	0 - 20
2390788	Boron	0.0690	Spike	P	0 - 20
2390788	Cadmium	0.0892	Spike	P	0 - 20
2390788	Chromium	0.0778	Spike	P	0 - 20
2390788	Cobalt	0.991	Spike	P	0 - 20
2390788	Copper	0.496	Spike	P	0 - 20
2390788	Lead	0.738	Spike	P	0 - 20
2390788	Manganese	0.603	Spike	P	0 - 20
2390788	Molybdenum	0.700	Spike	P	0 - 20
2390788	Nickel	0.0782	Spike	P	0 - 20
2390788	Selenium	0.299	Spike	P	0 - 20
2390788	Silver	0.928	Spike	P	0 - 20
2390788	Thallium	2.25	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426998

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390557	Chloride	0.00877	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426729

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390652	Ammonia-N	1.89	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426845

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390683	Kjeldahl Nitrogen	0.391	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426791

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390643	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426630

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390678	Total-P	0.189	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P426556

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390620	O-Phosphate-P	0.288	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P426511

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390328	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	10.7	Spike	P	0 - 37
2390328	Acetochlor	20.4	Spike	P	0 - 28
2390328	Alachlor	1.93	Spike	P	0 - 30
2390328	Ametryn	6.81	Spike	P	0 - 32
2390328	Atrazine	10.1	Spike	P	0 - 41
2390328	Atrazine Desethyl	26.7	Spike	P	0 - 36
2390328	Avobenzone	9.86	Spike	P	0 - 36
2390328	Azinphos Methyl	7.81	Spike	P	0 - 75
2390328	Azoxystrobin	10.3	Spike	P	0 - 39

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P426511

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390328	Bromacil	30.0	Spike	P	0 - 33
2390328	Butylate	33.3	Spike	P	0 - 44
2390328	Caffeine	39.4	Spike	P	0 - 74
2390328	Carbophenothion	6.44	Spike	P	0 - 25
2390328	Carfentrazone Ethyl	4.32	Spike	P	0 - 27
2390328	Chlorfenapyr	8.91	Spike	P	0 - 24
2390328	Chlorpyrifos Ethyl	15.0	Spike	P	0 - 26
2390328	Chlorpyrifos Methyl	3.36	Spike	P	0 - 26
2390328	Coumaphos	15.8	Spike	P	0 - 28
2390328	Cyanazine	18.6	Spike	P	0 - 48
2390328	Cyprodinil	1.84	Spike	P	0 - 29
2390328	Dechlorane 602	7.93	Spike	P	0 - 30
2390328	Dechlorane 603	9.18	Spike	P	0 - 30
2390328	Dechlorane Plus	11.0	Spike	P	0 - 30
2390328	Demeton	2.28	Spike	P	0 - 33
2390328	Diazinon	20.8	Spike	P	0 - 29
2390328	Difenoconazole	12.6	Spike	P	0 - 34
2390328	Dimethenamid	24.3	Spike	P	0 - 39
2390328	Dimethomorph	13.7	Spike	P	0 - 51
2390328	Disulfoton	15.0	Spike	P	0 - 30
2390328	Dithiopyr	5.44	Spike	P	0 - 26
2390328	EPTC	57.8	Spike	F	0 - 43
2390328	Ethion	0.235	Spike	P	0 - 79
2390328	Ethoprop	26.0	Spike	P	0 - 29
2390328	Etridiazole	25.6	Spike	P	0 - 33
2390328	Fenamiphos	20.2	Spike	P	0 - 40
2390328	Fenbuconazole	11.0	Spike	P	0 - 74
2390328	Fipronil	5.93	Spike	P	0 - 29
2390328	Fipronil Desulfinyl	18.3	Spike	P	0 - 32
2390328	Fipronil Sulfide	5.66	Spike	P	0 - 30
2390328	Fipronil Sulfone	0.429	Spike	P	0 - 33
2390328	Fluazifop-P-butyl	5.55	Spike	P	0 - 38
2390328	Fludioxonil	10.4	Spike	P	0 - 29
2390328	Flumioxazin	21.2	Spike	P	0 - 51
2390328	Flutolanil	22.9	Spike	P	0 - 25
2390328	Fluxapyroxad	13.6	Spike	P	0 - 45
2390328	Fonofos	30.6	Spike	F	0 - 27
2390328	Hexabromobenzene	5.53	Spike	P	0 - 30
2390328	Hexazinone	3.58	Spike	P	0 - 30
2390328	Imazalil	9.85	Spike	P	0 - 100
2390328	Iprodione	16.9	Spike	P	0 - 33
2390328	Loratadine	6.68	Spike	P	0 - 56
2390328	Malathion	6.18	Spike	P	0 - 37
2390328	Metalaxyl	20.6	Spike	P	0 - 40
2390328	Metolachlor	17.8	Spike	P	0 - 29
2390328	Metribuzin	3.78	Spike	P	0 - 45
2390328	Mevinphos	30.0	Spike	F	0 - 29
2390328	Molinate	28.8	Spike	P	0 - 33
2390328	Myclobutanil	7.77	Spike	P	0 - 26
2390328	Naled	31.6	Spike	P	0 - 37
2390328	Napropamide	8.33	Spike	P	0 - 44

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P426511

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390328	Norflurazon	22.4	Spike	P	0 - 30
2390328	Octinoxate	13.3	Spike	P	0 - 45
2390328	Oxadiazon	1.57	Spike	P	0 - 28
2390328	Oxybenzone	16.5	Spike	P	0 - 46
2390328	Oxyfluorfen	7.82	Spike	P	0 - 28
2390328	Parathion Ethyl	3.63	Spike	P	0 - 31
2390328	Parathion Methyl	8.57	Spike	P	0 - 29
2390328	PBB-153	9.05	Spike	P	0 - 30
2390328	PBDE-47	9.53	Spike	P	0 - 36
2390328	PBDE-99	8.72	Spike	P	0 - 40
2390328	Pendimethalin	1.31	Spike	P	0 - 33
2390328	Pentabromotoluene	7.46	Spike	P	0 - 30
2390328	Phenytoin	14.9	Spike	P	0 - 100
2390328	Phorate	7.17	Spike	P	0 - 36
2390328	Prodiamine	8.20	Spike	P	0 - 71
2390328	Prometon	11.7	Spike	P	0 - 36
2390328	Prometryn	15.9	Spike	P	0 - 28
2390328	Pronamide	23.9	Spike	P	0 - 24
2390328	Propanil	12.6	Spike	P	0 - 28
2390328	Propargite	5.33	Spike	P	0 - 43
2390328	Propiconazole	26.4	Spike	P	0 - 33
2390328	Pyraflufen Ethyl	27.4	Spike	P	0 - 29
2390328	Pyridaben	3.70	Spike	P	0 - 30
2390328	Pyriproxyfen	17.5	Spike	P	0 - 79
2390328	Simazine	17.9	Spike	P	0 - 29
2390328	Stirophos	0.922	Spike	P	0 - 61
2390328	Sulfentrazone	19.2	Spike	P	0 - 33
2390328	Tebuconazole	8.71	Spike	P	0 - 69
2390328	Terbufos	19.0	Spike	P	0 - 29
2390328	Terbutylazine	25.5	Spike	P	0 - 32
2390328	Tetradecachloro-m-terphenyl	4.74	Spike	P	0 - 30
2390328	Thiobencarb	15.4	Spike	P	0 - 26
2390328	Tri-o-cresyl Phosphate	12.3	Spike	P	0 - 33
2390328	Triadimefon	1.60	Spike	P	0 - 28
2390328	Tris(1-chloro-2-propyl) phosphate (TCPP)	7.91	Spike	P	0 - 30
2390328	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	5.63	Spike	P	0 - 30
2390328	Tris(2-chloroethyl) phosphate (TCEP)	11.6	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P426469

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390647	2,4-D	12.5	Spike	P	0 - 30
2390647	2,4,5-T	0.264	Spike	P	0 - 30
2390647	Acetaminophen	3.77	Spike	P	0 - 30
2390647	Acetamiprid	9.88	Spike	P	0 - 30
2390647	Bentazon	0.234	Spike	P	0 - 30
2390647	Benzovindiflupyr	0.827	Spike	P	0 - 30
2390647	Carbamazepine	3.60	Spike	P	0 - 30
2390647	Clothianidin	4.19	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P426469

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390647	Dinotefuran	0.234	Spike	P	0 - 30
2390647	Diuron	2.07	Spike	P	0 - 30
2390647	Fenuron	2.70	Spike	P	0 - 30
2390647	Fluridone	8.10	Spike	P	0 - 30
2390647	Hydrocodone	1.12	Spike	P	0 - 30
2390647	Ibuprofen	20.2	Spike	P	0 - 30
2390647	Imazapyr	6.28	Spike	P	0 - 30
2390647	Imidacloprid	5.33	Spike	P	0 - 30
2390647	Linuron	1.28	Spike	P	0 - 30
2390647	Mandestrobin	12.1	Spike	P	0 - 30
2390647	MCPPP	8.21	Spike	P	0 - 30
2390647	Naproxen	12.4	Spike	P	0 - 30
2390647	Primidone	0.572	Spike	P	0 - 30
2390647	Pyraclostrobin	0.485	Spike	P	0 - 30
2390647	Silvex	4.93	Spike	P	0 - 30
2390647	Thiamethoxam	3.22	Spike	P	0 - 30
2390647	Tolfenpyrad	3.12	Spike	P	0 - 30
2390647	Triclopyr	0.455	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P426535

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390312	Acesulfame K	2.32	Spike	P	0 - 30
2390312	AMPA	1.89	Spike	P	0 - 30
2390312	Endothall	0.705	Spike	P	0 - 30
2390312	Glufosinate	1.67	Spike	P	0 - 30
2390312	Glyphosate	14.3	Spike	P	0 - 30
2390312	Sucralose	1.75	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P426586

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2391073	Afidopyropen	59.2	Spike	F	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P426828

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390727	Total Alkalinity	0.204	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015

Batch ID: P427176

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390616	TDS	3.04	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P426977

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390782	Fluoride	0.986	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P426852

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390617	Organic Carbon	3.02	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2390691
Field Sample ID: 20030852

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	134	P	30 - 160
EPA 8321B	Acetaminophen-d4	136	P	30 - 160
EPA 8321B	Carbamazepine-d10	68.0	P	30 - 160
EPA 8321B	Diuron-d6	55.4	P	30 - 160
EPA 8321B	Endothall-d6	103	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	101	P	30 - 160
EPA 8321B	Ibuprofen-d3	66.9	P	30 - 160
EPA 8321B	Primidone-d5	101	P	30 - 160
EPA 8321B	Sucralose-d6	98.6	P	30 - 160

Lab Sample ID: 2390699
Field Sample ID: 20030852

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	108	P	20 - 200
EPA 8270E	Simazine-d10	105	P	62 - 142
EPA 8270E	Terbufos-d10	89.5	P	58 - 132
EPA 8270E	Terphenyl-d14	105	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A117740

Included Lab Sample IDs: 2390677

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	99.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A117741

Included Lab Sample IDs: 2390679

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.0	99.3	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A117748

Included Lab Sample IDs: 2390677

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A117801

Included Lab Sample IDs: 2390678

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

Reference Method: EPA 8321B

Run ID: A117818

Included Lab Sample IDs: 2390691

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	104	103	P/P	60 - 160
Sucralose	103	107	P/P	60 - 160

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A117820

Included Lab Sample IDs: 2390678

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	103	103	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A117821

Included Lab Sample IDs: 2390678

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.3	100	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A117822

Included Lab Sample IDs: 2390691

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	109	109	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A117822
Included Lab Sample IDs: 2390691

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endothall	103	105	P/P	60 - 160
Glufosinate	94.0	108	P/P	60 - 160
Glyphosate	91.4	101	P/P	60 - 160

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A117833
Included Lab Sample IDs: 2390677

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	96.9	96.7	P/P	90 - 110
Sulfate	99.5	99.8	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A117841
Included Lab Sample IDs: 2390692

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	100	100	P/P	90 - 110
Antimony	103	102	P/P	90 - 110
Arsenic	103	103	P/P	90 - 110
Barium	102	102	P/P	90 - 110
Beryllium	102	103	P/P	90 - 110
Boron	97.1	97.6	P/P	90 - 110
Cadmium	103	103	P/P	90 - 110
Chromium	100	101	P/P	90 - 110
Cobalt	100	99.4	P/P	90 - 110
Copper	99.7	99.2	P/P	90 - 110
Lead	98.5	97.8	P/P	90 - 110
Manganese	102	104	P/P	90 - 110
Molybdenum	99.3	99.4	P/P	90 - 110
Nickel	102	100	P/P	90 - 110
Selenium	106	107	P/P	90 - 110
Silver	99.7	100	P/P	90 - 110
Thallium	100	99.8	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A117849
Included Lab Sample IDs: 2390691

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	96.1	112	P/P	50 - 150
2,4,5-T	99.8	86.2	P/P	50 - 150
Acetaminophen	126	116	P/P	60 - 160
Acetamiprid	99.0	114	P/P	50 - 150
Bentazon	113	119	P/P	50 - 160
Benzovindiflupyr	104	109	P/P	50 - 150
Carbamazepine	103	110	P/P	60 - 150
Clothianidin	100	103	P/P	60 - 150
Dinotefuran	114	120	P/P	50 - 150
Diuron	114	111	P/P	60 - 160
Fenuron	104	104	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A117849
Included Lab Sample IDs: 2390691

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluridone	114	111	P/P	60 - 160
Hydrocodone	101	114	P/P	60 - 150
Ibuprofen	60.3	93.8	P/P	50 - 160
Imazapyr	94.8	102	P/P	50 - 150
Imidacloprid	94.5	105	P/P	60 - 150
Linuron	108	103	P/P	60 - 150
Mandestrobin	91.5	99.7	P/P	50 - 150
MCP	103	96.7	P/P	50 - 150
Naproxen	127	107	P/P	50 - 160
Primidone	86.5	108	P/P	60 - 150
Pyraclostrobin	105	101	P/P	60 - 150
Silvex	88.5	87.4	P/P	50 - 150
Thiamethoxam	105	109	P/P	50 - 150
Tolfenpyrad	99.1	93.5	P/P	60 - 150
Triclopyr	90.7	90.9	P/P	50 - 150

Reference Method: EPA 8321B
Run ID: A117850
Included Lab Sample IDs: 2390691

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Afidopyropen	96.3	82.1	P/P	50 - 150

Reference Method: SM 2320 B-2011
Run ID: A117858
Included Lab Sample IDs: 2390677

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.2	98.9	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A117865
Included Lab Sample IDs: 2390678

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.6	98.4	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A117885
Included Lab Sample IDs: 2390699

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	96.3		P	80 - 120
Avobenzone	98.3		P	80 - 120
Dechlorane 602	92.7		P	80 - 120
Dechlorane 603	95.4		P	80 - 120
Dechlorane Plus	103		P	80 - 120
Hexabromobenzene	93.0		P	80 - 120
Octinoxate	97.1		P	80 - 120
Oxybenzone	101		P	80 - 120
PBB-153	94.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A117885
Included Lab Sample IDs: 2390699

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PBDE-47	97.7		P	80 - 120
PBDE-99	102		P	80 - 120
Pentabromotoluene	95.5		P	80 - 120
Tetradecachloro-m-terphenyl	106		P	80 - 120
Tri-o-cresyl Phosphate	97.7		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	95.7		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	96.2		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	94.4		P	80 - 120

Reference Method: SM 4500-F- C-2011
Run ID: A117917
Included Lab Sample IDs: 2390677

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A117945
Included Lab Sample IDs: 2390678

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.7	97.2	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A117951
Included Lab Sample IDs: 2390699

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	108		P	80 - 120
Alachlor	115		P	80 - 120
Ametryn	112		P	80 - 120
Atrazine	96.2		P	80 - 120
Atrazine Desethyl	97.9		P	80 - 120
Azinphos Methyl	114		P	80 - 120
Azoxystrobin	101		P	80 - 120
Bromacil	109		P	80 - 120
Butylate	99.8		P	80 - 120
Caffeine	109		P	80 - 120
Carbophenothion	119		P	80 - 120
Carfentrazone Ethyl	119		P	80 - 120
Chlorfenapyr	102		P	80 - 120
Chlorpyrifos Ethyl	106		P	80 - 120
Chlorpyrifos Methyl	113		P	80 - 120
Coumaphos	107		P	80 - 120
Cyanazine	118		P	80 - 120
Cyprodinil	105		P	80 - 120
Demeton	101		P	80 - 120
Diazinon	117		P	80 - 120
Difenoconazole	113		P	80 - 120
Dimethenamid	120		P	80 - 120
Dimethomorph	102		P	80 - 120

Quality Assurance Report

Calibration Verification

Reference Method: EPA 8270E
 Run ID: A117951
 Included Lab Sample IDs: 2390699

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Disulfoton	108		P	80 - 120
Dithiopyr	114		P	80 - 120
EPTC	103		P	80 - 120
Ethion	108		P	80 - 120
Ethoprop	110		P	80 - 120
Etridiazole	110		P	80 - 120
Fenamiphos	110		P	80 - 120
Fenbuconazole	106		P	80 - 120
Fipronil	111		P	80 - 120
Fipronil Desulfinyl	113		P	80 - 120
Fipronil Sulfide	114		P	80 - 120
Fipronil Sulfone	111		P	80 - 120
Fluazifop-P-butyl	114		P	80 - 120
Fludioxonil	108		P	80 - 120
Flumioxazin	116		P	80 - 120
Flutolanil	105		P	80 - 120
Fluxapyroxad	110		P	80 - 120
Fonofos	103		P	80 - 120
Hexazinone	104		P	80 - 120
Imazalil	94.7		P	80 - 120
Iprodione	113		P	80 - 120
Loratadine	92.2		P	80 - 120
Malathion	110		P	80 - 120
Metalaxyl	118		P	80 - 120
Metolachlor	115		P	80 - 120
Metribuzin	94.7		P	80 - 120
Mevinphos	106		P	80 - 120
Molinate	105		P	80 - 120
Myclobutanil	108		P	80 - 120
Naled	111		P	80 - 120
Napropamide	116		P	80 - 120
Norflurazon	119		P	80 - 120
Oxadiazon	112		P	80 - 120
Oxyfluorfen	98.5		P	80 - 120
Parathion Ethyl	105		P	80 - 120
Parathion Methyl	117		P	80 - 120
Pendimethalin	119		P	80 - 120
Phenytoin	109		P	80 - 120
Phorate	94.8		P	80 - 120
Prodiamine	120		P	80 - 120
Prometon	95.1		P	80 - 120
Prometryn	104		P	80 - 120
Pronamide	109		P	80 - 120
Propanil	112		P	80 - 120
Propargite	114		P	80 - 120
Propiconazole	115		P	80 - 120
Pyraflufen Ethyl	114		P	80 - 120
Pyridaben	98.6		P	80 - 120
Pyriproxyfen	102		P	80 - 120
Simazine	103		P	80 - 120
Stirophos	112		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A117951
Included Lab Sample IDs: 2390699

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfentrazone	112		P	80 - 120
Tebuconazole	118		P	80 - 120
Terbufos	113		P	80 - 120
Terbutylazine	102		P	80 - 120
Thiobencarb	114		P	80 - 120
Triadimefon	106		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A118045
Included Lab Sample IDs: 2390692

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	102	100	P/P	95 - 105
Iron	100	99.7	P/P	95 - 105
Magnesium	101	100	P/P	95 - 105
Potassium	99.8	98.6	P/P	95 - 105
Sodium	99.4	98.3	P/P	95 - 105
Strontium	100	103	P/P	95 - 105
Tin	103	103	P/P	95 - 105
Titanium	103	104	P/P	95 - 105
Vanadium	103	103	P/P	95 - 105
Zinc	102	100	P/P	95 - 105

* 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)	99.5					2.54	
EPA 180.1 Rev. 2.0	Turbidity	101					9.45	
EPA 200.7 Rev. 4.4	Calcium	110	109	112				5.70
	Iron	109	105	112	113			5.97
	Magnesium	110	110	118				5.95
	Potassium	105	98.2	104	108			5.53
	Sodium	106	99.9	110	107			5.29
	Strontium	102	98.7	105	107			6.01
	Tin	104	101	105	106			4.55
	Titanium	106	105	110	106			4.07
	Vanadium	102	101	106	105			4.69
	Zinc	102	97.3	102	101			3.80
EPA 200.8 Rev. 5.4	Aluminum	99.9	101	100	99.7			0.178
	Antimony	102	104	105	102			1.54
	Arsenic	102	105	105	103			0.490
	Barium	103	104	105	104			1.16
	Beryllium	99.6	99.2	99.2	96.8			0.0194
	Boron	101	102	102	101			0.0690
	Cadmium	104	105	105	105			0.0892
	Chromium	100	102	102	102			0.0778
	Cobalt	100	100	99.3	99.9			0.991
	Copper	100	98.7	99.2	101			0.496
	Lead	99.2	99.7	100	101			0.738
	Manganese	102	104	103	104			0.603
	Molybdenum	101	102	103	99.6			0.700
	Nickel	102	101	101	101			0.0782
	Selenium	105	105	105	106			0.299
	Silver	100	101	102	99.9			0.928
	Thallium	102	102	105	103			2.25
EPA 300.0 Rev. 2.1	Chloride	98.1	96.7	95.8			0.0087	
	Sulfate	103	100	99.7				
EPA 350.1 Rev. 2.0	Ammonia-N	97.4	97.6	100				1.89
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	107	103	104				0.391
EPA 353.2 Rev. 2.0	NO2NO3-N	102	101	101				0.0
EPA 365.1 Rev. 2.0	Total-P	99.9	101	100				0.189
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.2	97.7	98.1				0.288
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	92.2	89.1	99.1				10.7
	Acetochlor	89.7	67.9	83.3				20.4
	Alachlor	70.9	66.0	67.3				1.93
	Ametryn	92.2	88.3	94.5				6.81
	Atrazine	59.8	58.9	65.2				10.1
	Atrazine Desethyl	51.0	37.8	49.4				26.7
	Avobenzone	113	94.1	104				9.86
	Azinphos Methyl	194	150	162				7.81
	Azoxystrobin	77.7	51.6	57.2				10.3
	Bromacil	75.4	57.7	78.0				30.0
	Butylate	35.4	30.0	41.9				33.3
	Caffeine	90.7	65.3	98.7				39.4
	Carbophenothion	63.0	96.4	103				6.44
	Carfentrazone Ethyl	62.0	59.2	61.8				4.32
	Chlorfenapyr	60.5	52.9	57.9				8.91
	Chlorpyrifos Ethyl	75.9	57.6	67.0				15.0

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Chlorpyrifos Methyl	96.6	68.7	71.0			3.36
	Coumaphos	135	105	123			15.8
	Cyanazine	135	103	124			18.6
	Cyprodinil	73.0	67.3	66.0			1.84
	Dechlorane 602	97.8	65.6	71.1			7.93
	Dechlorane 603	96.4	60.4	66.3			9.18
	Dechlorane Plus	123	100	112			11.0
	Demeton	45.3	43.9	45.0			2.28
	Diazinon	91.3	102	126			20.8
	Difenoconazole	157	124	141			12.6
	Dimethenamid	77.6	54.5	69.6			24.3
	Dimethomorph	37.0	35.3	40.4			13.7
	Disulfoton	62.6	58.6	68.2			15.0
	Dithiopyr	69.5	58.8	62.1			5.44
	EPTC	25.8	20.9	37.9			57.8
	Ethion	61.6	56.3	56.5			0.235
	Ethoprop	92.5	75.3	97.7			26.0
	Etridiazole	63.7	31.8	41.1			25.6
	Fenamiphos	89.3	63.7	78.0			20.2
	Fenbuconazole	113	106	119			11.0
	Fipronil	85.6	70.8	75.2			5.93
	Fipronil Desulfinyl	78.4	64.6	77.7			18.3
	Fipronil Sulfide	79.5	66.7	70.8			5.66
	Fipronil Sulfone	60.9	55.6	55.4			0.429
	Fluazifop-P-butyl	76.0	72.4	68.5			5.55
	Fludioxonil	80.7	75.6	83.9			10.4
	Flumioxazin	166	116	144			21.2
	Flutolanil	76.3	51.9	67.8			22.9
	Fluxapyroxad	42.8	52.9	46.2			13.6
	Fonofos	82.2	59.8	81.5			30.6
	Hexabromobenzene	131	133	140			5.53
	Hexazinone	65.2	62.8	60.5			3.58
	Imazalil	49.8	37.2	41.0			9.85
	Iprodione	109	77.3	91.5			16.9
	Loratadine	24.5	28.1	26.3			6.68
	Malathion	97.7	83.2	88.5			6.18
	Metalaxyl	88.0	55.5	70.3			20.6
	Metolachlor	65.6	58.6	74.0			17.8
	Metribuzin	41.2	64.7	67.1			3.78
	Mevinphos	81.1	62.0	83.8			30.0
	Molinate	44.6	37.4	50.0			28.8
	Myclobutanil	69.3	66.4	71.8			7.77
	Naled	52.5	41.4	56.9			31.6
	Napropamide	62.5	45.8	49.7			8.33
	Norflurazon	76.3	61.3	76.7			22.4
	Octinoxate	97.4	86.6	99.0			13.3
	Oxadiazon	67.8	58.0	58.9			1.57
	Oxybenzone	96.5	84.3	99.4			16.5
	Oxyfluorfen	71.9	65.2	70.5			7.82
	Parathion Ethyl	60.4	51.0	52.9			3.63
	Parathion Methyl	77.1	102	111			8.57
	PBB-153	124	92.0	101			9.05
	PBDE-47	85.7	81.2	89.3			9.53
	PBDE-99	81.4	78.3	85.4			8.72

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Pendimethalin	90.7	85.3	84.1		1.31
	Pentabromotoluene	125	123	133		7.46
	Phenytoln	73.9	67.1	77.8		14.9
	Phorate	70.4	55.0	59.1		7.17
	Prodiamine	74.7	63.3	68.7		8.20
	Prometon	82.6	87.5	77.8		11.7
	Prometryn	72.8	50.9	59.7		15.9
	Pronamide	85.4	67.0	85.2		23.9
	Propanil	56.9	50.2	57.0		12.6
	Propargite	57.0	49.1	51.8		5.33
	Propiconazole	60.4	53.1	69.2		26.4
	Pyraflufen Ethyl	72.4	59.8	78.8		27.4
	Pyridaben	94.5	68.3	65.8		3.70
	Pyriproxyfen	42.6	51.5	43.2		17.5
	Simazine	89.0	104	124		17.9
	Stiropfos	91.5	73.3	72.6		0.922
	Sulfentrazone	107	89.8	109		19.2
	Tebuconazole	69.0	65.4	71.4		8.71
	Terbufos	67.6	98.4	119		19.0
	Terbutylazine	75.6	54.6	70.6		25.5
	Tetradecachloro-m-terphenyl	153	108	113		4.74
	Thiobencarb	69.2	56.9	66.4		15.4
	Tri-o-cresyl Phosphate	100	88.6	100		12.3
	Triadimefon	57.0	48.1	48.9		1.60
	Tris(1-chloro-2-propyl) phosphate (TCPP)	148	118	130		7.91
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	127	119	126		5.63
	Tris(2-chloroethyl) phosphate (TCEP)	134	127	143		11.6
EPA 8321B	2,4-D	122	97.0	110		12.5
	2,4,5-T	91.9	98.0	98.3		0.264
	Acesulfame K	97.8	123	126		2.32
	Acetaminophen	113	114	118		3.77
	Acetamiprid	88.1	53.6	59.2		9.88
	Afidopyropen	60.2	73.1	39.7		59.2
	AMPA	106	88.2	89.8		1.89
	Bentazon	122	78.7	78.8		0.234
	Benzovindiflupyr	89.4	75.4	76.0		0.827
	Carbamazepine	85.4	58.2	60.3		3.60
	Clothianidin	87.3	77.9	81.3		4.19
	Dinotefuran	108	95.9	96.1		0.234
	Diuron	81.4	49.0	48.0		2.07
	Endothall	96.7	106	106		0.705
	Fenuron	91.3	56.5	58.0		2.70
	Fluridone	77.6	55.8	51.4		8.10
	Glufosinate	105	102	100		1.67
	Glyphosate	95.9	96.2	111		14.3
	Hydrocodone	86.6	73.8	74.6		1.12
	Ibuprofen	81.5	72.2	88.4		20.2
	Imazapyr	98.5	98.9	106		6.28
	Imidacloprid	104	101	106		5.33
	Linuron	74.9	62.1	61.3		1.28
	Mandestrobin	85.5	68.3	77.1		12.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery	LCS	Precision SMP	MS
EPA 8321B	MCCP	107	94.6 103			8.21
	Naproxen	110	61.4 69.5			12.4
	Primidone	91.8	78.9 79.3			0.572
	Pyraclostrobin	81.1	70.8 71.2			0.485
	Silvex	106	103 109			4.93
	Sucralose	98.4	96.8 98.6			1.75
	Thiamethoxam	97.0	84.1 81.4			3.22
	Tolfenpyrad	58.8	52.6 51.0			3.12
	Triclopyr	106	104 104			0.455
SM 2320 B-2011	Total Alkalinity	99.4			0.204	
SM 2540 C-2015	TDS	95.1			3.04	
SM 2540 D-2015	TSS	99.5				
SM 4500-F- C-2011	Fluoride	98.6	98.7 97.3			0.986
SM 5310 B-2011	Organic Carbon	94.5	96.2 99.2			3.02

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2390677
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2390677
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2390692
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2390692
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2390677
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2390677
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2390678
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2390678
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2390678
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2390678
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2390679
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2390699
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2390699
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2390691
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2390677
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2390692
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2390677
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2390677
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2390677
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2390678

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	03/01/2023			03/01/2023 14:13	Alexis Price	2390677
EPA 180.1 Rev. 2.0	03/01/2023			03/01/2023 13:52	Anna M. Plaviak	2390677
EPA 200.7 Rev. 4.4	03/01/2023	03/03/2023 13:20	George D Taylor	03/16/2023 14:20	Chase Roberts	2390692
EPA 200.8 Rev. 5.4	03/01/2023	03/03/2023 13:20	George D Taylor	03/06/2023 17:18	Emily M Philpot	2390692
EPA 300.0 Rev. 2.1	03/01/2023			03/09/2023 17:37	Judith K. Clark	2390677
EPA 350.1 Rev. 2.0	03/01/2023			03/06/2023 11:07	Khloe J Berg	2390678
EPA 351.2 Rev. 2.0	03/01/2023	03/08/2023 14:00	Simonne.V. Calhoun	03/11/2023 13:37	Judith K. Clark	2390678
EPA 353.2 Rev. 2.0	03/01/2023			03/06/2023 11:00	Beverly Y. Sanders	2390678
EPA 365.1 Rev. 2.0	03/01/2023	03/02/2023 15:47	Adam P Silver	03/04/2023 14:54	James L Waggeberby	2390678
EPA 365.1 Rev. 2.0 dissolved	03/01/2023			03/01/2023 14:28	Chandler E Cox	2390679
EPA 8270E	03/01/2023	03/06/2023 08:00	Fe-Val Siddell	03/08/2023 19:46	Arthur Maknenko	2390699
	03/01/2023	03/06/2023 08:00	Fe-Val Siddell	03/08/2023 23:10	Michael Poppell	2390699
EPA 8321B	03/01/2023	03/01/2023 13:00	Hoor Shaik	03/01/2023 22:47	Juyoung Kim	2390691
	03/01/2023	03/03/2023 08:00	Manjita Shrestha	03/03/2023 13:48	Manjita Shrestha	2390691
	03/01/2023	03/03/2023 08:00	Manjita Shrestha	03/04/2023 00:29	Manjita Shrestha	2390691
	03/01/2023	03/03/2023 09:00	Hoor Shaik	03/04/2023 05:34	Juyoung Kim	2390691
SM 2320 B-2011	03/01/2023			03/08/2023 01:08	Chandler E Cox	2390677
SM 2340 B-2011	03/01/2023			03/16/2023 14:20	Chase Roberts	2390692
SM 2540 C-2015	03/01/2023			03/03/2023 15:41	Yijie Li	2390677
SM 2540 D-2015	03/01/2023			03/03/2023 15:41	Yijie Li	2390677
SM 4500-F- C-2011	03/01/2023			03/10/2023 07:02	Dale L. Simmons	2390677
SM 5310 B-2011	03/01/2023			03/08/2023 08:45	Elise M. Gillis	2390678