

Chemical Analysis Report

SW-DIST-2023-03-28-01

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

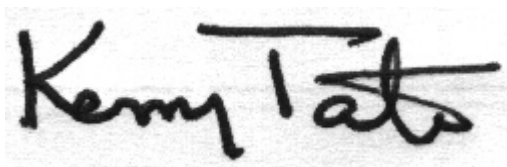
Event Description: **SCI Little Charlie**
Request ID: **RQ-2023-03-27-24**
Customer: **SW-DIST**
Project ID: **SMP**

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

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

Date Certified: 14-APR-2023 11:49

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: Little Charlie Creek at 664

Collection Date/Time: 03/27/2023 12:00

Field ID: G3SW0089

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2396534	DEP SOP: NU-094-1	Color (true)	33	A	PCU	P427768	
	EPA 180.1 Rev. 2.0	Turbidity	3.8	A	NTU	P427773	
	EPA 300.0 Rev. 2.1	Chloride	18		mg Cl/L	P427938	
		Sulfate	100		mg SO4/L	P428092	
	SM 2320 B-2011	Total Alkalinity	50		mg CaCO3/L	P427943	
	SM 2540 C-2015	TDS	231		mg/L	P428328	
	SM 2540 D-2015	TSS	3	I	mg/L	P428170	
	SM 4500-F- C-2011	Fluoride	0.56		mg F/L	P427950	
2396535	EPA 350.1 Rev. 2.0	Ammonia-N	0.028		mg N/L	P427876	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.40		mg N/L	P427794	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.17		mg N/L	P427993	
	EPA 365.1 Rev. 2.0	Total-P	0.54		mg P/L	P427870	
	SM 5310 B-2011	Organic Carbon	7.1		mg C/L	P427937	
2396536	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.47		mg P/L	P427765	
2396556	EPA 8321B	2,4-D	0.0020	U	ug/L	P427927	
		Acesulfame K	0.10	U	ug/L	P427744	
		2,4,5-T	0.0040	U	ug/L	P427927	
		AMPA	0.14	I	ug/L	P427744	
		Acetaminophen	0.0080	U	ug/L	P427927	
		Acetamiprid	0.0020	U	ug/L	P427927	
		Endothall	0.25	U	ug/L	P427744	
		Glufosinate	0.10	U	ug/L	P427744	
		Glyphosate	0.12	I	ug/L	P427744	
		Afidopyrophen	0.0020	U	ug/L	P427927	
		Bentazon	8.0E-04	U	ug/L	P427927	
		Sucralose	0.050		ug/L	P427744	
		Benzovindiflupyr	0.0020	U	ug/L	P427927	
		Carbamazepine	8.0E-04	U	ug/L	P427927	
		Clothianidin	0.0020	U	ug/L	P427927	
		Dinotefuran	0.0020	U	ug/L	P427927	
		Diuron	0.0020	U	ug/L	P427927	
		Fenuron	0.032	U	ug/L	P427927	
		Fluridone	8.0E-04	U	ug/L	P427927	
		Imazapyr	0.015	I	ug/L	P427927	
		Hydrocodone	0.0020	U	ug/L	P427927	
		Ibuprofen	0.080	U	ug/L	P427927	
		Imidacloprid	0.067		ug/L	P427927	
		Linuron	0.0040	U	ug/L	P427927	
		Mandestrobin	0.0020	U	ug/L	P427927	
		MCPD	0.0020	U	ug/L	P427927	
		Naproxen	0.0080	U	ug/L	P427927	
		Primidone	0.0040	U	ug/L	P427927	
		Pyraclostrobin	0.0020	U	ug/L	P427927	

Field ID: G3SW0089

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2396556	EPA 8321B	Silvex	0.0040	U	ug/L	P427927	
		Thiamethoxam	0.0020	U	ug/L	P427927	
		Tolfenpyrad	0.0020	U	ug/L	P427927	
		Triclopyr	0.0040	U	ug/L	P427927	
2396557	EPA 200.7 Rev. 4.4	Calcium	28.8		mg/L	P427862	
		Iron	490		ug/L	P427862	
		Magnesium	16.5		mg/L	P427862	
		Potassium	4.7		mg/L	P427862	
		Sodium	23.9		mg/L	P427862	
		Strontium	630		ug/L	P427862	
		Tin	3.0	U	ug/L	P427862	
		Titanium	1.4	I	ug/L	P427862	
		Vanadium	2.0	U	ug/L	P427862	
		Zinc	5.0	U	ug/L	P427862	
	EPA 200.8 Rev. 5.4	Aluminum	279		ug/L	P427862	
		Antimony	0.094	I	ug/L	P427862	
		Arsenic	0.94		ug/L	P427862	
		Barium	7.17		ug/L	P427862	
		Beryllium	0.022	I	ug/L	P427862	
		Boron	31.1		ug/L	P427862	
		Cadmium	0.025	I	ug/L	P427862	
		Chromium	0.73	I	ug/L	P427862	
		Cobalt	0.163		ug/L	P427862	
		Copper	0.78	I	ug/L	P427862	
		Lead	0.27	I	ug/L	P427862	
		Manganese	45.0		ug/L	P427862	
		Molybdenum	1.74		ug/L	P427862	
		Nickel	0.70	I	ug/L	P427862	
		Selenium	0.30	I	ug/L	P427862	
		Silver	0.010	U	ug/L	P427862	
		Thallium	0.10	U	ug/L	P427862	
	SM 2340 B-2011	Hardness	140		mg/L	P427862	
2396558	EPA 8270E	Oxybenzone**	11	U	ng/L	P427785	
		Acetochlor	0.21	U	ng/L	P427785	
		Octinoxate**	21	U	ng/L	P427785	
		Alachlor	0.42	U	ng/L	P427785	
		Avobenzone**	110	U	ng/L	P427785	
		Ametryn	1.2	U	ng/L	P427785	
		Atrazine	0.53	I	ng/L	P427785	
		PBDE-47**	4.2	U	ng/L	P427785	
		Atrazine Desethyl	1.4	U	ng/L	P427785	
		PBDE-99**	5.3	U	ng/L	P427785	
		Azinphos Methyl	3.2	U	ng/L	P427785	
		Tri-o-cresyl Phosphate**	6.4	U	ng/L	P427785	
		Azoxystrobin	0.42	U	ng/L	P427785	

Field ID: G3SW0089

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2396558	EPA 8270E	Bromacil	98		ng/L	P427785	
		2-Ethylhexyl	13	U	ng/L	P427785	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.21	U	ng/L	P427785	
		Dechlorane Plus**	53	I	ng/L	P427785	
		Caffeine**	15	I	ng/L	P427785	
		Dechlorane 602**	5.3	U	ng/L	P427785	
		Carbophenothion	0.53	U	ng/L	P427785	
		Dechlorane 603**	4.2	U	ng/L	P427785	
		Carfentrazone Ethyl	0.16	U	ng/L	P427785	
		Hexabromobenzene**	6.4	U	ng/L	P427785	
		Chlorfenapyr	0.32	U	ng/L	P427785	
		PBB-153**	8.5	U	ng/L	P427785	
		Chlorpyrifos Ethyl	0.32	U	ng/L	P427785	
		Pentabromotoluene**	3.2	U	ng/L	P427785	
		Chlorpyrifos Methyl	0.11	U	ng/L	P427785	
		Tris(2-chloroethyl) phosphate (TCEP)**	74	U	ng/L	P427785	
		Coumaphos	1.1	U	ng/L	P427785	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	46	I	ng/L	P427785	
		Cyanazine	5.3	U	ng/L	P427785	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P427785	
		Cyprodinil	0.21	U	ng/L	P427785	
		Tetradecachloro-m-terphenyl**	7.9	UJ	ng/L	P427785	CCV
		Demeton	3.7	U	ng/L	P427785	
		Diazinon	0.13	U	ng/L	P427785	
		Difenoconazole	0.64	U	ng/L	P427785	
		Dimethenamid	0.11	U	ng/L	P427785	
		Dimethomorph	0.32	U	ng/L	P427785	
		Disulfoton	0.64	U	ng/L	P427785	
		Dithiopyr	1.1	U	ng/L	P427785	
		EPTC	0.53	U	ng/L	P427785	
		Ethion	0.32	U	ng/L	P427785	
		Ethoprop	0.13	U	ng/L	P427785	
		Etridiazole	0.11	U	ng/L	P427785	
		Fenamiphos	0.48	U	ng/L	P427785	
		Fenbuconazole	0.53	U	ng/L	P427785	
		Fipronil	0.21	U	ng/L	P427785	
		Fipronil Desulfinyl**	0.11	U	ng/L	P427785	
		Fipronil Sulfide	0.11	U	ng/L	P427785	
		Fipronil Sulfone	0.11	U	ng/L	P427785	
		Fluazifop-P-butyl	0.11	U	ng/L	P427785	
		Fludioxonil	0.11	U	ng/L	P427785	
		Flumioxazin	3.2	U	ng/L	P427785	
		Flutolanil	0.11	U	ng/L	P427785	
		Fluxapyroxad	0.26	UJ	ng/L	P427785	CCV

Field ID: G3SW0089

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2396558	EPA 8270E	Fonofos	0.16	U	ng/L	P427785	CCV
		Hexazinone	0.53	U	ng/L	P427785	
		Imazalil	0.69	U	ng/L	P427785	
		Iprodione	0.53	UJ	ng/L	P427785	
		Loratadine**	0.32	U	ng/L	P427785	
		Malathion	0.37	U	ng/L	P427785	
		Metalaxyl	0.84	I	ng/L	P427785	
		Metolachlor	0.79	U	ng/L	P427785	
		Metribuzin	0.42	U	ng/L	P427785	
		Mevinphos	1.1	U	ng/L	P427785	
		Molinate	0.26	U	ng/L	P427785	
		Myclobutanil	0.37	U	ng/L	P427785	
		Naled	2.6	U	ng/L	P427785	
		Napropamide	0.74	U	ng/L	P427785	
		Norflurazon	140		ng/L	P427785	
		Oxadiazon	0.37	U	ng/L	P427785	
		Oxyfluorfen	0.21	U	ng/L	P427785	
		Parathion Ethyl	0.16	U	ng/L	P427785	
		Parathion Methyl	0.21	U	ng/L	P427785	
		Pendimethalin	0.79	U	ng/L	P427785	
		Phenytol**	5.6	U	ng/L	P427785	
		Phorate	0.26	U	ng/L	P427785	
		Prodiamine	0.21	U	ng/L	P427785	
		Prometon	3.2	U	ng/L	P427785	
		Prometryn	0.37	U	ng/L	P427785	
		Pronamide	0.11	U	ng/L	P427785	
		Propanil	0.11	U	ng/L	P427785	
		Propargite	0.85	U	ng/L	P427785	
		Propiconazole	0.64	U	ng/L	P427785	
		Pyraflufen Ethyl	0.32	U	ng/L	P427785	
		Pyridaben	1.5	U	ng/L	P427785	
		Pyriproxyfen	0.26	U	ng/L	P427785	
		Simazine	0.26	U	ng/L	P427785	
		Stirophos	0.42	U	ng/L	P427785	
		Sulfentrazone	1.5	UJ	ng/L	P427785	CCV
		Tebuconazole	1.5	U	ng/L	P427785	
		Terbufos	0.21	U	ng/L	P427785	
		Terbuthylazine	0.21	U	ng/L	P427785	
		Thiobencarb	0.53	U	ng/L	P427785	
		Triadimefon	0.16	U	ng/L	P427785	

Ref. Method and Comment:

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

EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8270E: MS accuracy for bromacil and norflurazon not assessed due to high content of this parameter in the sample spiked. 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: P427768

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P427773

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P427862

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: P427862

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: P427938

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: P428092

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427876

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427794

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427993

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427870

Component	Result	Code	Units
Total-P	0.010	U	mg P/L

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P427765

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

Reference Method: EPA 8270E
Batch ID: P427785

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: P427785

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: P427785

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: P427785

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: P427785

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)	15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L

Reference Method: EPA 8321B

Batch ID: P427744

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: P427927

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
Afidopyopen	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P427927

Component	Result	Code	Units
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011

Batch ID: P427943

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

Reference Method: SM 2540 C-2015

Batch ID: P428328

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P428170

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P427950

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P427937

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: P427768

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P427773

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P427862

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	106		P	80 - 120
Iron	108		P	80 - 120
Magnesium	106		P	80 - 120
Potassium	103		P	80 - 120
Sodium	102		P	80 - 120
Strontium	101		P	80 - 120
Tin	103		P	80 - 120
Titanium	103		P	80 - 120
Vanadium	100		P	80 - 120
Zinc	98.0		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P427862

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	98.7		P	85 - 115
Antimony	101		P	85 - 115
Arsenic	103		P	85 - 115
Barium	102		P	85 - 115
Beryllium	97.4		P	85 - 115
Boron	96.6		P	85 - 115
Cadmium	99.4		P	85 - 115
Chromium	98.1		P	85 - 115
Cobalt	105		P	85 - 115
Copper	101		P	85 - 115
Lead	93.6		P	85 - 115
Manganese	97.6		P	85 - 115
Molybdenum	101		P	85 - 115
Nickel	102		P	85 - 115
Selenium	101		P	85 - 115
Silver	99.6		P	85 - 115
Thallium	100		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427938

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P428092

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427876

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427794

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	96.8		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427993

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	104		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427870

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	98.7		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P427765

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.4		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P427785

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	96.6		P	42 - 162
Acetochlor	82.1		P	69 - 123
Alachlor	91.7		P	65 - 118
Ametryn	97.7		P	58 - 141
Atrazine	99.0		P	73 - 118
Atrazine Desethyl	74.8		P	32 - 125
Avobenzone	118		P	40 - 203
Azinphos Methyl	59.7		P	36 - 197
Azoxystrobin	98.1		P	58 - 226
Bromacil	80.3		P	48 - 120
Butylate	51.5		P	27 - 85.0
Caffeine	110		P	40 - 137
Carbophenothion	88.3		P	54 - 132
Carfentrazone Ethyl	84.8		P	60 - 142
Chlorfenapyr	88.7		P	53 - 117
Chlorpyrifos Ethyl	96.8		P	59 - 116

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P427785

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	97.8		P	66 - 119
Coumaphos	129		P	11 - 234
Cyanazine	97.6		P	61 - 248
Cyprodinil	92.4		P	50 - 147
Dechlorane 602	89.6		P	50 - 150
Dechlorane 603	102		P	50 - 150
Dechlorane Plus	85.9		P	47 - 182
Demeton	70.3		P	30 - 138
Diazinon	120		P	67 - 126
Difenoconazole	81.5		P	38 - 205
Dimethenamid	98.7		P	57 - 111
Dimethomorph	90.0		P	16 - 212
Disulfoton	74.7		P	46 - 126
Dithiopyr	98.2		P	62 - 115
EPTC	48.4		P	28 - 80.0
Ethion	95.4		P	24 - 122
Ethoprop	92.2		P	62 - 113
Etridiazole	50.3		P	28 - 92.0
Fenamiphos	94.5		P	57 - 128
Fenbuconazole	108		P	52 - 155
Fipronil	96.4		P	63 - 130
Fipronil Desulfinyl	87.5		P	61 - 130
Fipronil Sulfide	84.2		P	56 - 117
Fipronil Sulfone	92.5		P	52 - 118
Fluazifop-P-butyl	77.3		P	61 - 128
Fludioxonil	113		P	59 - 129
Flumioxazin	133		P	30 - 250
Flutolanil	99.5		P	53 - 127
Fluxapyroxad	102		P	42 - 132
Fonofos	103		P	61 - 110
Hexabromobenzene	109		P	50 - 150
Hexazinone	101		P	46 - 139
Imazalil	117		P	40 - 139
Iprodione	76.3		P	40 - 146
Loratadine	66.3		P	10 - 224
Malathion	100		P	61 - 135
Metaxyl	103		P	58 - 121
Metolachlor	81.6		P	64 - 118
Metribuzin	98.1		P	45 - 245
Mevinphos	87.9		P	49 - 118
Molinate	64.3		P	42 - 92.0
Myclobutanil	78.6		P	55 - 127
Naled	107		P	10 - 114
Napropamide	100		P	39 - 121
Norflurazon	90.9		P	55 - 129
Octinoxate	94.2		P	26 - 166
Oxadiazon	94.5		P	54 - 115
Oxybenzone	92.5		P	49 - 135
Oxyfluorfen	89.6		P	64 - 139
Parathion Ethyl	93.7		P	70 - 111
Parathion Methyl	113		P	76 - 136
PBB-153	112		P	50 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P427785

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBDE-47	95.1		P	41 - 148
PBDE-99	89.0		P	38 - 147
Pendimethalin	92.7		P	52 - 118
Pentabromotoluene	97.1		P	50 - 150
Phenytoin	66.4		P	10 - 162
Phorate	74.1		P	40 - 122
Prodiamine	53.6		P	26 - 141
Prometon	106		P	54 - 122
Prometryn	103		P	61 - 128
Pronamide	101		P	72 - 121
Propanil	101		P	45 - 144
Propargite	87.0		P	10 - 199
Propiconazole	83.1		P	56 - 127
Pyraflufen Ethyl	110		P	56 - 140
Pyridaben	113		P	26 - 211
Pyriproxyfen	46.5		P	33 - 194
Simazine	112		P	67 - 121
Stirophos	83.8		P	20 - 142
Sulfentrazone	85.7		P	21 - 144
Tebuconazole	116		P	10 - 122
Terbufos	98.4		P	60 - 129
Terbutylazine	104		P	69 - 113
Tetradecachloro-m-terphenyl	122		P	70 - 200
Thiobencarb	94.2		P	51 - 120
Tri-o-cresyl Phosphate	96.9		P	49 - 150
Triadimefon	75.3		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	98.8		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	90.7		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	101		P	70 - 180

Reference Method: EPA 8321B

Batch ID: P427744

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	93.9		P	40 - 150
AMPA	113		P	40 - 150
Endothall	91.3		P	40 - 150
Glufosinate	110		P	40 - 150
Glyphosate	125		P	40 - 150
Sucralose	102		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P427927

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	102		P	40 - 150
2,4,5-T	91.7		P	40 - 150
Acetaminophen	84.5		P	30 - 150
Acetamiprid	76.6		P	40 - 150
Afidopyropen	67.0		P	30 - 150
Bentazon	98.8		P	30 - 150
Benzovindiflupyr	86.7		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P427927

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Carbamazepine	81.1		P	40 - 150
Clothianidin	89.7		P	40 - 150
Dinotefuran	94.3		P	40 - 150
Diuron	73.5		P	40 - 150
Fenuron	87.5		P	40 - 150
Fluridone	81.9		P	40 - 150
Hydrocodone	95.2		P	40 - 150
Ibuprofen	66.4		P	40 - 150
Imazapyr	96.3		P	40 - 150
Imidacloprid	83.8		P	40 - 150
Linuron	75.2		P	40 - 150
Mandestrobin	92.3		P	40 - 150
MCPPP	101		P	40 - 150
Naproxen	65.0		P	40 - 150
Primidone	82.9		P	40 - 150
Pyraclostrobin	86.1		P	40 - 150
Silvex	103		P	40 - 150
Thiamethoxam	91.7		P	40 - 150
Tolfenpyrad	61.5		P	30 - 150
Triclopyr	97.0		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P427943

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.3		P	94 - 106

Reference Method: SM 2540 C-2015

Batch ID: P428328

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	96.8		P	90 - 110

Reference Method: SM 2540 D-2015

Batch ID: P428170

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	93.3		P	85 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P427950

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	96 - 104

Reference Method: SM 5310 B-2011

Batch ID: P427937

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P427862

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2396503	Calcium	106		P	80 - 120
2396503	Iron	110	109	P/P	80 - 120
2396503	Magnesium	109	106	P/P	80 - 120
2396503	Potassium	104	103	P/P	80 - 120
2396503	Sodium	104	104	P/P	80 - 120
2396503	Strontium	102	102	P/P	80 - 120
2396503	Tin	107	106	P/P	80 - 120
2396503	Titanium	106	105	P/P	80 - 120
2396503	Vanadium	104	104	P/P	80 - 120
2396503	Zinc	98.3	97.9	P/P	80 - 120
2396521	Calcium	107		P	80 - 120
2396521	Iron	108		P	80 - 120
2396521	Magnesium	106		P	80 - 120
2396521	Potassium	103		P	80 - 120
2396521	Sodium	102		P	80 - 120
2396521	Strontium	101		P	80 - 120
2396521	Tin	108		P	80 - 120
2396521	Titanium	106		P	80 - 120
2396521	Vanadium	104		P	80 - 120
2396521	Zinc	99.5		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P427862

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2396503	Aluminum	96.8	97.5	P/P	80 - 120
2396503	Antimony	103	104	P/P	80 - 120
2396503	Arsenic	103	103	P/P	80 - 120
2396503	Barium	103	104	P/P	80 - 120
2396503	Beryllium	98.6	97.2	P/P	80 - 120
2396503	Boron	95.4	98.0	P/P	80 - 120
2396503	Cadmium	101	103	P/P	80 - 120
2396503	Chromium	101	101	P/P	80 - 120
2396503	Cobalt	103	104	P/P	80 - 120
2396503	Copper	101	101	P/P	80 - 120
2396503	Lead	93.5	93.8	P/P	80 - 120
2396503	Manganese	98.5	100	P/P	80 - 120
2396503	Molybdenum	105	105	P/P	80 - 120
2396503	Nickel	102	102	P/P	80 - 120
2396503	Selenium	100	99.8	P/P	80 - 120
2396503	Silver	99.8	101	P/P	80 - 120
2396503	Thallium	103	104	P/P	80 - 120
2396521	Aluminum	95.1		P	80 - 120
2396521	Antimony	106		P	80 - 120
2396521	Arsenic	102		P	80 - 120
2396521	Barium	104		P	80 - 120
2396521	Beryllium	98.8		P	80 - 120
2396521	Boron	100		P	80 - 120
2396521	Cadmium	103		P	80 - 120
2396521	Chromium	103		P	80 - 120
2396521	Cobalt	103		P	80 - 120
2396521	Copper	98.2		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P427862

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2396521	Lead	95.1		P	80 - 120
2396521	Manganese	102		P	80 - 120
2396521	Molybdenum	105		P	80 - 120
2396521	Nickel	99.0		P	80 - 120
2396521	Selenium	98.5		P	80 - 120
2396521	Silver	101		P	80 - 120
2396521	Thallium	104		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427938

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2396562	Chloride	99.2		P	90 - 110
2396602	Chloride	98.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P428092

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2397553	Sulfate	94.6		P	90 - 110
2397554	Sulfate	98.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427876

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2396482	Ammonia-N	97.4	96.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427794

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2396564	Kjeldahl Nitrogen	101	93.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427993

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2396535	NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427870

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2396603	Total-P	98.5	99.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P427765

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2396517	O-Phosphate-P	99.5	99.3	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P427785

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2396558	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	83.6	87.2	P/P	26 - 165
2396558	Acetochlor	85.0	82.3	P/P	67 - 124
2396558	Alachlor	73.3	71.8	P/P	60 - 120
2396558	Ametryn	83.4	86.9	P/P	54 - 216
2396558	Atrazine	90.2	91.0	P/P	66 - 128
2396558	Atrazine Desethyl	73.3	80.5	P/P	15 - 122
2396558	Avobenzone	112	117	P/P	37 - 178
2396558	Azinphos Methyl	49.6	49.6	P/P	40 - 292
2396558	Azoxystrobin	88.5	88.4	P/P	35 - 220
2396558	Butylate	22.9	31.7	P/P	20 - 83.0
2396558	Caffeine	84.3	99.1	P/P	10 - 194
2396558	Carbophenothion	79.2	81.5	P/P	57 - 127
2396558	Carfentrazone Ethyl	70.3	63.7	P/P	51 - 141
2396558	Chlorfenapyr	78.8	81.4	P/P	46 - 111
2396558	Chlorpyrifos Ethyl	102	91.4	P/P	52 - 120
2396558	Chlorpyrifos Methyl	91.8	89.7	P/P	63 - 119
2396558	Coumaphos	108	138	P/P	10 - 228
2396558	Cyanazine	105	119	P/P	59 - 241
2396558	Cyprodinil	84.4	95.2	P/P	47 - 146
2396558	Dechlorane 602	70.8	74.0	P/P	50 - 150
2396558	Dechlorane 603	84.7	84.9	P/P	50 - 150
2396558	Dechlorane Plus	56.9	55.0	P/P	50 - 150
2396558	Demeton	87.4	101	P/P	40 - 136
2396558	Diazinon	126	125	P/P	69 - 132
2396558	Difenoconazole	72.5	70.5	P/P	57 - 258
2396558	Dimethenamid	75.6	88.8	P/P	54 - 110
2396558	Dimethomorph	97.4	95.0	P/P	28 - 210
2396558	Disulfoton	88.7	81.0	P/P	43 - 133
2396558	Dithiopyr	75.7	85.3	P/P	39 - 116
2396558	EPTC	24.4	25.5	P/P	20 - 78.0
2396558	Ethion	71.9	72.7	P/P	17 - 119
2396558	Ethoprop	82.6	91.7	P/P	66 - 120
2396558	Etridiazole	32.8	36.5	P/P	28 - 96.0
2396558	Fenamiphos	85.6	96.6	P/P	41 - 126
2396558	Fenbuconazole	113	131	P/P	42 - 169
2396558	Fipronil	84.3	99.6	P/P	61 - 132
2396558	Fipronil Desulfinyl	72.0	71.6	P/P	56 - 132
2396558	Fipronil Sulfide	76.5	83.7	P/P	48 - 119
2396558	Fipronil Sulfone	74.9	84.7	P/P	42 - 131
2396558	Fluazifop-P-butyl	63.9	60.8	P/P	53 - 131
2396558	Fludioxonil	111	112	P/P	56 - 127
2396558	Flumioxazin	140	174	P/P	19 - 300
2396558	Flutolanil	102	107	P/P	41 - 127
2396558	Fluxapyroxad	104	113	P/P	42 - 172
2396558	Fonofos	106	83.8	P/P	59 - 113
2396558	Hexabromobenzene	98.3	103	P/P	50 - 150
2396558	Hexazinone	105	103	P/P	66 - 122
2396558	Imazalil	119	98.2	P/P	21 - 283
2396558	Iprodione	72.4	63.7	P/P	43 - 150
2396558	Loratadine	70.2	57.8	P/P	23 - 201
2396558	Malathion	76.0	77.9	P/P	58 - 136
2396558	Metalaxyl	92.9	67.3	P/P	55 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P427785

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2396558	Metolachlor	75.8	84.5	P/P	57 - 121
2396558	Metribuzin	91.4	90.2	P/P	58 - 294
2396558	Mevinphos	78.1	90.8	P/P	50 - 126
2396558	Molinate	52.7	57.3	P/P	42 - 93.0
2396558	Myclobutanil	70.5	69.3	P/P	55 - 125
2396558	Naled	69.5	81.3	P/P	18 - 200
2396558	Napropamide	97.5	95.0	P/P	39 - 110
2396558	Octinoxate	77.1	81.7	P/P	21 - 159
2396558	Oxadiazon	97.5	102	P/P	43 - 112
2396558	Oxybenzone	85.3	89.2	P/P	41 - 142
2396558	Oxyfluorfen	79.5	84.4	P/P	64 - 153
2396558	Parathion Ethyl	90.1	86.7	P/P	69 - 114
2396558	Parathion Methyl	100	98.0	P/P	79 - 139
2396558	PBB-153	98.4	103	P/P	50 - 150
2396558	PBDE-47	87.8	89.1	P/P	27 - 144
2396558	PBDE-99	82.0	83.7	P/P	18 - 150
2396558	Pendimethalin	110	125	P/P	50 - 139
2396558	Pentabromotoluene	83.3	87.9	P/P	50 - 150
2396558	Phenytoin	55.7	60.8	P/P	10 - 146
2396558	Phorate	68.2	81.2	P/P	54 - 161
2396558	Prodiamine	51.8	60.8	P/P	30 - 161
2396558	Prometon	98.7	106	P/P	45 - 134
2396558	Prometryn	91.9	102	P/P	45 - 137
2396558	Pronamide	99.9	97.3	P/P	65 - 133
2396558	Propanil	85.1	94.9	P/P	49 - 142
2396558	Propargite	71.7	67.4	P/P	10 - 203
2396558	Propiconazole	85.8	91.9	P/P	38 - 146
2396558	Pyraflufen Ethyl	114	123	P/P	34 - 153
2396558	Pyridaben	105	123	P/P	12 - 192
2396558	Pyriproxyfen	40.7	35.5	P/P	33 - 180
2396558	Simazine	146	149	P/P	51 - 157
2396558	Stiropfos	72.0	75.3	P/P	10 - 128
2396558	Sulfentrazone	77.1	96.6	P/P	53 - 186
2396558	Tebuconazole	122	121	P/P	10 - 133
2396558	Terbufos	99.2	89.0	P/P	65 - 139
2396558	Terbutylazine	97.0	93.9	P/P	66 - 117
2396558	Tetradecachloro-m-terphenyl	128	120	P/P	70 - 200
2396558	Thiobencarb	84.2	92.5	P/P	51 - 119
2396558	Tri-o-cresyl Phosphate	90.8	93.0	P/P	31 - 144
2396558	Triadimefon	66.8	72.3	P/P	48 - 119
2396558	Tris(1-chloro-2-propyl) phosphate (TCPP)	78.8	81.6	P/P	50 - 150
2396558	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	84.7	86.3	P/P	50 - 150
2396558	Tris(2-chloroethyl) phosphate (TCEP)	87.1	90.7	P/P	70 - 180

Reference Method: EPA 8321B

Batch ID: P427744

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2396497	Acesulfame K	89.6	88.5	P/P	40 - 150
2396497	AMPA	101	98.8	P/P	40 - 150
2396497	Endothall	101	99.0	P/P	40 - 150
2396497	Glufosinate	94.3	88.5	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P427744

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2396497	Glyphosate	104	97.1	P/P	40 - 150
2396497	Sucralose	103	104	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P427927

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2396497	2,4-D	115	122	P/P	40 - 150
2396497	2,4,5-T	110	106	P/P	40 - 150
2396497	Acetaminophen	82.1	77.0	P/P	30 - 150
2396497	Acetamiprid	77.5	82.7	P/P	40 - 150
2396497	Afidopyropen	54.6	70.6	P/P	30 - 150
2396497	Bentazon	104	104	P/P	30 - 150
2396497	Benzovindiflupyr	82.6	85.4	P/P	40 - 150
2396497	Carbamazepine	87.3	87.1	P/P	40 - 150
2396497	Clothianidin	87.9	87.3	P/P	40 - 150
2396497	Dinotefuran	99.8	101	P/P	40 - 150
2396497	Diuron	63.6	63.0	P/P	40 - 150
2396497	Fenuron	85.7	80.5	P/P	40 - 150
2396497	Fluridone	83.5	80.3	P/P	40 - 150
2396497	Hydrocodone	108	113	P/P	40 - 150
2396497	Ibuprofen	74.0	62.9	P/P	40 - 150
2396497	Imazapyr	111	115	P/P	40 - 150
2396497	Imidacloprid	100	91.4	P/P	40 - 150
2396497	Linuron	48.5	46.6	P/P	40 - 150
2396497	Mandestrobin	93.5	93.1	P/P	40 - 150
2396497	MCPP	111	109	P/P	40 - 150
2396497	Naproxen	77.2	102	P/P	40 - 150
2396497	Primidone	92.2	88.9	P/P	40 - 150
2396497	Pyraclostrobin	83.6	81.5	P/P	40 - 150
2396497	Silvex	113	112	P/P	40 - 150
2396497	Thiamethoxam	79.0	77.3	P/P	40 - 150
2396497	Tolfenpyrad	54.6	54.0	P/P	30 - 150
2396497	Triclopyr	102	105	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P427950

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2396626	Fluoride	102	101	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P427937

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2396532	Organic Carbon	89.5	89.9	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P427768

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396534	Color (true)	2.71	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P427773

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396534	Turbidity	5.59	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P427862

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396503	Calcium	0.358	Spike	P	0 - 20
2396503	Iron	1.31	Spike	P	0 - 20
2396503	Magnesium	1.64	Spike	P	0 - 20
2396503	Potassium	0.540	Spike	P	0 - 20
2396503	Sodium	0.350	Spike	P	0 - 20
2396503	Strontium	0.425	Spike	P	0 - 20
2396503	Tin	1.32	Spike	P	0 - 20
2396503	Titanium	0.594	Spike	P	0 - 20
2396503	Vanadium	0.481	Spike	P	0 - 20
2396503	Zinc	0.427	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P427862

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396503	Aluminum	0.661	Spike	P	0 - 20
2396503	Antimony	0.745	Spike	P	0 - 20
2396503	Arsenic	0.140	Spike	P	0 - 20
2396503	Barium	0.353	Spike	P	0 - 20
2396503	Beryllium	1.45	Spike	P	0 - 20
2396503	Boron	2.49	Spike	P	0 - 20
2396503	Cadmium	2.08	Spike	P	0 - 20
2396503	Chromium	0.257	Spike	P	0 - 20
2396503	Cobalt	0.860	Spike	P	0 - 20
2396503	Copper	0.385	Spike	P	0 - 20
2396503	Lead	0.268	Spike	P	0 - 20
2396503	Manganese	1.60	Spike	P	0 - 20
2396503	Molybdenum	0.0264	Spike	P	0 - 20
2396503	Nickel	0.0474	Spike	P	0 - 20
2396503	Selenium	0.654	Spike	P	0 - 20
2396503	Silver	1.14	Spike	P	0 - 20
2396503	Thallium	0.965	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427938

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396562	Chloride	0.326	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P428092

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2397553	Sulfate	0.431	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427876

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396482	Ammonia-N	0.679	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427794

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396564	Kjeldahl Nitrogen	6.81	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427993

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396535	NO2NO3-N	0.266	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427870

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396603	Total-P	0.450	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P427765

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396517	O-Phosphate-P	0.164	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P427785

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396558	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	4.16	Spike	P	0 - 37
2396558	Acetochlor	3.29	Spike	P	0 - 28

Quality Assurance Report

Precision

Reference Method: EPA 8270E
Batch ID: P427785

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396558	Alachlor	2.01	Spike	P	0 - 30
2396558	Ametryn	4.11	Spike	P	0 - 32
2396558	Atrazine	0.794	Spike	P	0 - 41
2396558	Atrazine Desethyl	9.49	Spike	P	0 - 36
2396558	Avobenzone	3.89	Spike	P	0 - 36
2396558	Azinphos Methyl	0.100	Spike	P	0 - 75
2396558	Azoxystrobin	0.0132	Spike	P	0 - 39
2396558	Bromacil	13.4	Spike	P	0 - 33
2396558	Butylate	32.4	Spike	P	0 - 44
2396558	Caffeine	12.9	Spike	P	0 - 74
2396558	Carbophenothion	2.83	Spike	P	0 - 25
2396558	Carfentrazone Ethyl	9.92	Spike	P	0 - 27
2396558	Chlorfenapyr	3.24	Spike	P	0 - 24
2396558	Chlorpyrifos Ethyl	10.7	Spike	P	0 - 26
2396558	Chlorpyrifos Methyl	2.33	Spike	P	0 - 26
2396558	Coumaphos	24.4	Spike	P	0 - 28
2396558	Cyanazine	12.6	Spike	P	0 - 48
2396558	Cyprodinil	11.9	Spike	P	0 - 29
2396558	Dechlorane 602	4.43	Spike	P	0 - 30
2396558	Dechlorane 603	0.247	Spike	P	0 - 30
2396558	Dechlorane Plus	2.76	Spike	P	0 - 30
2396558	Demeton	14.3	Spike	P	0 - 33
2396558	Diazinon	1.39	Spike	P	0 - 29
2396558	Difenoconazole	2.70	Spike	P	0 - 34
2396558	Dimethenamid	16.0	Spike	P	0 - 39
2396558	Dimethomorph	2.53	Spike	P	0 - 51
2396558	Disulfoton	9.00	Spike	P	0 - 30
2396558	Dithiopyr	11.9	Spike	P	0 - 26
2396558	EPTC	4.33	Spike	P	0 - 43
2396558	Ethion	1.02	Spike	P	0 - 79
2396558	Ethoprop	10.5	Spike	P	0 - 29
2396558	Etridiazole	10.5	Spike	P	0 - 33
2396558	Fenamiphos	12.1	Spike	P	0 - 40
2396558	Fenbuconazole	14.6	Spike	P	0 - 74
2396558	Fipronil	16.6	Spike	P	0 - 29
2396558	Fipronil Desulfinyl	0.572	Spike	P	0 - 32
2396558	Fipronil Sulfide	8.98	Spike	P	0 - 30
2396558	Fipronil Sulfone	12.3	Spike	P	0 - 33
2396558	Fluazifop-P-butyl	4.96	Spike	P	0 - 38
2396558	Fludioxonil	0.848	Spike	P	0 - 29
2396558	Flumioxazin	21.4	Spike	P	0 - 51
2396558	Flutolanil	4.85	Spike	P	0 - 25
2396558	Fluxapyroxad	8.37	Spike	P	0 - 45
2396558	Fonofos	23.2	Spike	P	0 - 27
2396558	Hexabromobenzene	4.74	Spike	P	0 - 30
2396558	Hexazinone	1.78	Spike	P	0 - 30
2396558	Imazalil	18.7	Spike	P	0 - 100
2396558	Iprodione	12.8	Spike	P	0 - 33
2396558	Loratadine	19.3	Spike	P	0 - 56
2396558	Malathion	2.10	Spike	P	0 - 37
2396558	Metalaxyl	27.7	Spike	P	0 - 40

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P427785

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396558	Metolachlor	10.9	Spike	P	0 - 29
2396558	Metribuzin	1.41	Spike	P	0 - 45
2396558	Mevinphos	15.0	Spike	P	0 - 29
2396558	Molinate	8.41	Spike	P	0 - 33
2396558	Myclobutanil	1.76	Spike	P	0 - 26
2396558	Naled	15.7	Spike	P	0 - 37
2396558	Napropamide	2.58	Spike	P	0 - 44
2396558	Norflurazon	9.04	Spike	P	0 - 30
2396558	Octinoxate	5.77	Spike	P	0 - 45
2396558	Oxadiazon	4.56	Spike	P	0 - 28
2396558	Oxybenzone	4.46	Spike	P	0 - 46
2396558	Oxyfluorfen	5.96	Spike	P	0 - 28
2396558	Parathion Ethyl	3.77	Spike	P	0 - 31
2396558	Parathion Methyl	2.28	Spike	P	0 - 29
2396558	PBB-153	4.09	Spike	P	0 - 30
2396558	PBDE-47	1.38	Spike	P	0 - 36
2396558	PBDE-99	2.12	Spike	P	0 - 40
2396558	Pendimethalin	13.1	Spike	P	0 - 33
2396558	Pentabromotoluene	5.29	Spike	P	0 - 30
2396558	Phenytoin	8.86	Spike	P	0 - 100
2396558	Phorate	17.4	Spike	P	0 - 36
2396558	Prodiamine	16.1	Spike	P	0 - 71
2396558	Prometon	6.75	Spike	P	0 - 36
2396558	Prometryn	10.4	Spike	P	0 - 28
2396558	Pronamide	2.67	Spike	P	0 - 24
2396558	Propanil	10.9	Spike	P	0 - 28
2396558	Propargite	6.12	Spike	P	0 - 43
2396558	Propiconazole	6.91	Spike	P	0 - 33
2396558	Pyraflufen Ethyl	7.08	Spike	P	0 - 29
2396558	Pyridaben	15.3	Spike	P	0 - 30
2396558	Pyriproxyfen	13.7	Spike	P	0 - 79
2396558	Simazine	1.88	Spike	P	0 - 29
2396558	Stirophos	4.46	Spike	P	0 - 61
2396558	Sulfentrazone	22.4	Spike	P	0 - 33
2396558	Tebuconazole	0.783	Spike	P	0 - 69
2396558	Terbufos	10.9	Spike	P	0 - 29
2396558	Terbuthylazine	3.28	Spike	P	0 - 32
2396558	Tetradecachloro-m-terphenyl	6.73	Spike	P	0 - 30
2396558	Thiobencarb	9.36	Spike	P	0 - 26
2396558	Tri-o-cresyl Phosphate	2.34	Spike	P	0 - 33
2396558	Triadimefon	7.90	Spike	P	0 - 28
2396558	Tris(1-chloro-2-propyl) phosphate (TCPP)	2.76	Spike	P	0 - 30
2396558	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	1.83	Spike	P	0 - 30
2396558	Tris(2-chloroethyl) phosphate (TCEP)	4.04	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P427744

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396497	Acesulfame K	1.25	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P427744

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396497	AMPA	2.25	Spike	P	0 - 30
2396497	Endothall	2.34	Spike	P	0 - 30
2396497	Glufosinate	6.33	Spike	P	0 - 30
2396497	Glyphosate	6.59	Spike	P	0 - 30
2396497	Sucralose	1.38	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P427927

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396497	2,4-D	5.63	Spike	P	0 - 30
2396497	2,4,5-T	3.82	Spike	P	0 - 30
2396497	Acetaminophen	4.95	Spike	P	0 - 30
2396497	Acetamiprid	6.42	Spike	P	0 - 30
2396497	Afidopyropen	25.6	Spike	P	0 - 30
2396497	Bentazon	0.288	Spike	P	0 - 30
2396497	Benzovindiflupyr	3.32	Spike	P	0 - 30
2396497	Carbamazepine	0.215	Spike	P	0 - 30
2396497	Clothianidin	0.712	Spike	P	0 - 30
2396497	Dinotefuran	0.760	Spike	P	0 - 30
2396497	Diuron	0.994	Spike	P	0 - 30
2396497	Fenuron	6.25	Spike	P	0 - 30
2396497	Fluridone	3.86	Spike	P	0 - 30
2396497	Hydrocodone	4.50	Spike	P	0 - 30
2396497	Ibuprofen	16.3	Spike	P	0 - 30
2396497	Imazapyr	3.08	Spike	P	0 - 30
2396497	Imidacloprid	8.99	Spike	P	0 - 30
2396497	Linuron	3.89	Spike	P	0 - 30
2396497	Mandestrobin	0.486	Spike	P	0 - 30
2396497	MCPP	1.48	Spike	P	0 - 30
2396497	Naproxen	27.3	Spike	P	0 - 30
2396497	Primidone	3.73	Spike	P	0 - 30
2396497	Pyraclostrobin	2.57	Spike	P	0 - 30
2396497	Silvex	0.624	Spike	P	0 - 30
2396497	Thiamethoxam	2.19	Spike	P	0 - 30
2396497	Tolfenpyrad	1.08	Spike	P	0 - 30
2396497	Triclopyr	2.57	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P427943

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396626	Total Alkalinity	0.697	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015
Batch ID: P428328

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

Reference Method: SM 2540 C-2015
Batch ID: P428328

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396609	TDS	3.12	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P427950

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396626	Fluoride	0.476	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P427937

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396532	Organic Carbon	0.332	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2396556
Field Sample ID: G3SW0089

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	118	P	30 - 160
EPA 8321B	Acetaminophen-d4	110	P	30 - 160
EPA 8321B	Carbamazepine-d10	76.7	P	30 - 160
EPA 8321B	Diuron-d6	51.1	P	30 - 160
EPA 8321B	Endothall-d6	117	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	133	P	30 - 160
EPA 8321B	Ibuprofen-d3	79.0	P	30 - 160
EPA 8321B	Primidone-d5	105	P	30 - 160
EPA 8321B	Sucralose-d6	83.4	P	30 - 160

Lab Sample ID: 2396558
Field Sample ID: G3SW0089

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	63.7	P	20 - 200
EPA 8270E	Simazine-d10	84.5	P	62 - 142
EPA 8270E	Terbufos-d10	102	P	58 - 132
EPA 8270E	Terphenyl-d14	89.3	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A118237

Included Lab Sample IDs: 2396534

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A118238

Included Lab Sample IDs: 2396536

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.5	98.2	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A118239

Included Lab Sample IDs: 2396534

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A118247

Included Lab Sample IDs: 2396534

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	96.8	98.1	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A118293

Included Lab Sample IDs: 2396535

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.8	99.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A118317

Included Lab Sample IDs: 2396535

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

Reference Method: EPA 8270E

Run ID: A118326

Included Lab Sample IDs: 2396558

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	99.2		P	80 - 120
Avobenzene	94.3		P	80 - 120
Dechlorane 602	101		P	80 - 120
Dechlorane 603	107		P	80 - 120
Dechlorane Plus	95.3		P	80 - 120
Hexabromobenzene	99.0		P	80 - 120
Octinoxate	97.1		P	80 - 120
Oxybenzone	96.2		P	80 - 120
PBB-153	97.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A118326
Included Lab Sample IDs: 2396558

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PBDE-47	95.3		P	80 - 120
PBDE-99	100		P	80 - 120
Pentabromotoluene	97.0		P	80 - 120
Tetradecachloro-m-terphenyl	78.0*		F	80 - 120
Tri-o-cresyl Phosphate	92.9		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	94.0		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	94.8		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	96.6		P	80 - 120

Reference Method: SM 5310 B-2011
Run ID: A118328
Included Lab Sample IDs: 2396535

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

Reference Method: SM 2320 B-2011
Run ID: A118331
Included Lab Sample IDs: 2396534

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.7	93.0	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A118331
Included Lab Sample IDs: 2396534

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

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A118335
Included Lab Sample IDs: 2396557

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	94.9	95.6	P/P	90 - 110
Antimony	99.4	99.4	P/P	90 - 110
Arsenic	98.5	99.5	P/P	90 - 110
Barium	98.8	98.6	P/P	90 - 110
Beryllium	97.1	96.6	P/P	90 - 110
Boron	95.6	95.5	P/P	90 - 110
Cadmium	98.5	99.1	P/P	90 - 110
Chromium	97.3	97.7	P/P	90 - 110
Copper	96.7	96.3	P/P	90 - 110
Lead	91.4	91.9	P/P	90 - 110
Manganese	97.8	98.1	P/P	90 - 110
Molybdenum	98.9	98.5	P/P	90 - 110
Nickel	96.0	95.6	P/P	90 - 110
Selenium	98.7	98.2	P/P	90 - 110
Silver	97.3	97.6	P/P	90 - 110
Thallium	100	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A118347

Included Lab Sample IDs: 2396535

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	105	106	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A118354

Included Lab Sample IDs: 2396557

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

Reference Method: EPA 8321B

Run ID: A118355

Included Lab Sample IDs: 2396556

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	93.7	93.8	P/P	60 - 160
Sucralose	96.0	106	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A118357

Included Lab Sample IDs: 2396556

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	139	145	P/P	60 - 160
Endothall	90.4	92.2	P/P	60 - 160
Glufosinate	101	105	P/P	60 - 160
Glyphosate	96.8	113	P/P	60 - 160

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A118359

Included Lab Sample IDs: 2396557

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	105	104	P/P	90 - 110
Iron	106	105	P/P	90 - 110
Magnesium	104	103	P/P	90 - 110
Potassium	102	101	P/P	90 - 110
Sodium	99.8	98.5	P/P	90 - 110
Strontium	99.3	100	P/P	90 - 110
Tin	102	101	P/P	90 - 110
Titanium	101	101	P/P	90 - 110
Vanadium	101	100	P/P	90 - 110
Zinc	99.6	98.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A118361

Included Lab Sample IDs: 2396535

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	104	104	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A118372

Included Lab Sample IDs: 2396534

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfate	99.2	96.7	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A118491

Included Lab Sample IDs: 2396556

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	89.3	84.6	P/P	50 - 150
2,4,5-T	83.0	85.4	P/P	50 - 150
Acetaminophen	116	94.5	P/P	60 - 160
Acetamiprid	101	103	P/P	50 - 150
Afidopyropen	86.6	73.7	P/P	50 - 150
Bentazon	123	124	P/P	50 - 160
Benzovindiflupyr	89.3	84.3	P/P	50 - 150
Carbamazepine	95.4	102	P/P	60 - 150
Clothianidin	102	101	P/P	60 - 150
Dinotefuran	108	112	P/P	50 - 150
Diuron	106	107	P/P	60 - 160
Fenuron	97.7	105	P/P	60 - 150
Fluridone	95.8	97.4	P/P	60 - 160
Hydrocodone	142	148	P/P	60 - 150
Ibuprofen	111	118	P/P	50 - 160
Imazapyr	113	118	P/P	50 - 150
Imidacloprid	93.2	91.5	P/P	60 - 150
Linuron	101	94.6	P/P	60 - 150
Mandestrobin	95.2	99.0	P/P	50 - 150
MCPP	89.0	94.5	P/P	50 - 150
Naproxen	119	91.3	P/P	50 - 160
Primidone	110	109	P/P	60 - 150
Pyraclostrobin	86.5	89.2	P/P	60 - 150
Silvex	84.6	76.4	P/P	50 - 150
Thiamethoxam	122	123	P/P	50 - 150
Tolfenpyrad	84.5	82.8	P/P	60 - 150
Triclopyr	89.9	86.8	P/P	50 - 150

Reference Method: EPA 8270E

Run ID: A118515

Included Lab Sample IDs: 2396558

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Alachlor	93.8		P	80 - 120
Ametryn	96.7		P	80 - 120
Atrazine	100		P	80 - 120
Atrazine Desethyl	90.1		P	80 - 120
Azinphos Methyl	112		P	80 - 120
Azoxystrobin	99.1		P	80 - 120
Bromacil	106		P	80 - 120
Butylate	115		P	80 - 120
Caffeine	96.4		P	80 - 120
Carbophenothion	119		P	80 - 120
Carfentrazone Ethyl	97.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A118515
Included Lab Sample IDs: 2396558

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlorfenapyr	118		P	80 - 120
Chlorpyrifos Ethyl	115		P	80 - 120
Coumaphos	111		P	80 - 120
Cyanazine	101		P	80 - 120
Cyprodinil	108		P	80 - 120
Demeton	115		P	80 - 120
Diazinon	95.7		P	80 - 120
Difenoconazole	102		P	80 - 120
Dimethenamid	102		P	80 - 120
Dimethomorph	100		P	80 - 120
Disulfoton	95.1		P	80 - 120
Dithiopyr	111		P	80 - 120
EPTC	89.8		P	80 - 120
Ethion	115		P	80 - 120
Ethoprop	109		P	80 - 120
Etridiazole	98.7		P	80 - 120
Fenamiphos	106		P	80 - 120
Fenbuconazole	108		P	80 - 120
Fipronil	118		P	80 - 120
Fipronil Desulfinyl	116		P	80 - 120
Fipronil Sulfide	117		P	80 - 120
Fipronil Sulfone	108		P	80 - 120
Fluazifop-P-butyl	103		P	80 - 120
Fludioxonil	114		P	80 - 120
Flumioxazin	106		P	80 - 120
Flutolanil	109		P	80 - 120
Fluxapyroxad	135*		F	80 - 120
Fonofos	115		P	80 - 120
Hexazinone	98.4		P	80 - 120
Imazalil	115		P	80 - 120
Iprodione	123*		F	80 - 120
Loratadine	93.1		P	80 - 120
Malathion	116		P	80 - 120
Metolachlor	102		P	80 - 120
Metribuzin	97.1		P	80 - 120
Mevinphos	110		P	80 - 120
Molinate	106		P	80 - 120
Myclobutanil	108		P	80 - 120
Naled	102		P	80 - 120
Napropamide	115		P	80 - 120
Norflurazon	99.2		P	80 - 120
Oxadiazon	105		P	80 - 120
Oxyfluorfen	107		P	80 - 120
Parathion Ethyl	87.6		P	80 - 120
Pendimethalin	114		P	80 - 120
Phenytoin	99.3		P	80 - 120
Phorate	97.0		P	80 - 120
Prodiamine	115		P	80 - 120
Prometon	104		P	80 - 120
Prometryn	111		P	80 - 120
Pronamide	91.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A118515
Included Lab Sample IDs: 2396558

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Propanil	98.2		P	80 - 120
Propargite	80.7		P	80 - 120
Propiconazole	103		P	80 - 120
Pyraflufen Ethyl	114		P	80 - 120
Pyridaben	94.1		P	80 - 120
Pyriproxyfen	104		P	80 - 120
Simazine	105		P	80 - 120
Stirophos	114		P	80 - 120
Sulfentrazone	126*		F	80 - 120
Tebuconazole	107		P	80 - 120
Terbufos	107		P	80 - 120
Terbuthylazine	96.6		P	80 - 120
Thiobencarb	102		P	80 - 120
Triadimefon	114		P	80 - 120

Reference Method: EPA 8270E
Run ID: A118523
Included Lab Sample IDs: 2396558

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	83.7		P	80 - 120
Chlorpyrifos Methyl	98.4		P	80 - 120
Metalaxyl	87.7		P	80 - 120
Parathion Methyl	90.6		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	101					2.71	
EPA 180.1 Rev. 2.0	Turbidity	100					5.59	
EPA 200.7 Rev. 4.4	Calcium	106	106	107				0.358
	Iron	108	110	109	108			1.31
	Magnesium	106	109	106	106			1.64
	Potassium	103	104	103	103			0.540
	Sodium	102	104	104	102			0.350
	Strontium	101	101	102	102			0.425
	Tin	103	107	106	108			1.32
	Titanium	103	106	105	106			0.594
	Vanadium	100	104	104	104			0.481
	Zinc	98.0	98.3	97.9	99.5			0.427
EPA 200.8 Rev. 5.4	Aluminum	98.7	96.8	97.5	95.1			0.661
	Antimony	101	103	104	106			0.745
	Arsenic	103	103	103	102			0.140
	Barium	102	103	104	104			0.353
	Beryllium	97.4	98.6	97.2	98.8			1.45
	Boron	96.6	95.4	98.0	100			2.49
	Cadmium	99.4	101	103	103			2.08
	Chromium	98.1	101	101	103			0.257
	Cobalt	105	103	104	103			0.860
	Copper	101	101	101	98.2			0.385
	Lead	93.6	93.5	93.8	95.1			0.268
	Manganese	97.6	98.5	100	102			1.60
	Molybdenum	101	105	105	105			0.0264
	Nickel	102	102	102	99.0			0.0474
	Selenium	101	100	99.8	98.5			0.654
	Silver	99.6	99.8	101	101			1.14
	Thallium	100	103	104	104			0.965
EPA 300.0 Rev. 2.1	Chloride	102	99.2	98.1			0.326	
	Sulfate	98.6	94.6	98.9			0.431	
EPA 350.1 Rev. 2.0	Ammonia-N	98.4	97.4	96.6				0.679
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	96.8	101	93.2				6.81
EPA 353.2 Rev. 2.0	NO2NO3-N	104	102	102				0.266
EPA 365.1 Rev. 2.0	Total-P	98.7	98.5	99.3				0.450
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.4	99.5	99.3				0.164
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	96.6	83.6	87.2				4.16
	Acetochlor	82.1	85.0	82.3				3.29
	Alachlor	91.7	73.3	71.8				2.01
	Ametryn	97.7	83.4	86.9				4.11
	Atrazine	99.0	90.2	91.0				0.794
	Atrazine Desethyl	74.8	73.3	80.5				9.49
	Avobenzone	118	117	112				3.89
	Azinphos Methyl	59.7	49.6	49.6				0.100
	Azoxystrobin	98.1	88.5	88.4				0.0132
	Bromacil	80.3						13.4
	Butylate	51.5	22.9	31.7				32.4
	Caffeine	110	84.3	99.1				12.9
	Carbophenothion	88.3	79.2	81.5				2.83
	Carfentrazone Ethyl	84.8	70.3	63.7				9.92
	Chlorfenapyr	88.7	78.8	81.4				3.24
	Chlorpyrifos Ethyl	96.8	102	91.4				10.7

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Chlorpyrifos Methyl	97.8	91.8	89.7		2.33
	Coumaphos	129	108	138		24.4
	Cyanazine	97.6	105	119		12.6
	Cyprodinil	92.4	84.4	95.2		11.9
	Dechlorane 602	89.6	70.8	74.0		4.43
	Dechlorane 603	102	84.7	84.9		0.247
	Dechlorane Plus	85.9	56.9	55.0		2.76
	Demeton	70.3	87.4	101		14.3
	Diazinon	120	126	125		1.39
	Difenoconazole	81.5	72.5	70.5		2.70
	Dimethenamid	98.7	75.6	88.8		16.0
	Dimethomorph	90.0	97.4	95.0		2.53
	Disulfoton	74.7	88.7	81.0		9.00
	Dithiopyr	98.2	75.7	85.3		11.9
	EPTC	48.4	24.4	25.5		4.33
	Ethion	95.4	71.9	72.7		1.02
	Ethoprop	92.2	82.6	91.7		10.5
	Etridiazole	50.3	32.8	36.5		10.5
	Fenamiphos	94.5	85.6	96.6		12.1
	Fenbuconazole	108	113	131		14.6
	Fipronil	96.4	84.3	99.6		16.6
	Fipronil Desulfinyl	87.5	72.0	71.6		0.572
	Fipronil Sulfide	84.2	76.5	83.7		8.98
	Fipronil Sulfone	92.5	74.9	84.7		12.3
	Fluazifop-P-butyl	77.3	63.9	60.8		4.96
	Fludioxonil	113	111	112		0.848
	Flumioxazin	133	140	174		21.4
	Flutolanil	99.5	102	107		4.85
	Fluxapyroxad	102	104	113		8.37
	Fonofos	103	106	83.8		23.2
	Hexabromobenzene	109	98.3	103		4.74
	Hexazinone	101	105	103		1.78
	Imazalil	117	119	98.2		18.7
	Iprodione	76.3	72.4	63.7		12.8
	Loratadine	66.3	70.2	57.8		19.3
	Malathion	100	76.0	77.9		2.10
	Metalaxyl	103	92.9	67.3		27.7
	Metolachlor	81.6	75.8	84.5		10.9
	Metribuzin	98.1	91.4	90.2		1.41
	Mevinphos	87.9	78.1	90.8		15.0
	Molinate	64.3	52.7	57.3		8.41
	Myclobutanil	78.6	70.5	69.3		1.76
	Naled	107	69.5	81.3		15.7
	Napropamide	100	97.5	95.0		2.58
	Norflurazon	90.9				9.04
	Octinoxate	94.2	81.7	77.1		5.77
	Oxadiazon	94.5	97.5	102		4.56
	Oxybenzone	92.5	89.2	85.3		4.46
	Oxyfluorfen	89.6	79.5	84.4		5.96
	Parathion Ethyl	93.7	90.1	86.7		3.77
	Parathion Methyl	113	100	98.0		2.28
	PBB-153	112	98.4	103		4.09
	PBDE-47	95.1	89.1	87.8		1.38
	PBDE-99	89.0	82.0	83.7		2.12

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Pendimethalin	92.7	110	125		13.1
	Pentabromotoluene	97.1	83.3	87.9		5.29
	Phenytoin	66.4	55.7	60.8		8.86
	Phorate	74.1	68.2	81.2		17.4
	Prodiamine	53.6	51.8	60.8		16.1
	Prometon	106	98.7	106		6.75
	Prometryn	103	91.9	102		10.4
	Pronamide	101	99.9	97.3		2.67
	Propanil	101	85.1	94.9		10.9
	Propargite	87.0	71.7	67.4		6.12
	Propiconazole	83.1	85.8	91.9		6.91
	Pyraflufen Ethyl	110	114	123		7.08
	Pyridaben	113	105	123		15.3
	Pyriproxyfen	46.5	40.7	35.5		13.7
	Simazine	112	146	149		1.88
	Stiropfos	83.8	72.0	75.3		4.46
	Sulfentrazone	85.7	77.1	96.6		22.4
	Tebuconazole	116	122	121		0.783
	Terbufos	98.4	99.2	89.0		10.9
	Terbutylazine	104	97.0	93.9		3.28
	Tetradecachloro-m-terphenyl	122	128	120		6.73
	Thiobencarb	94.2	84.2	92.5		9.36
	Tri-o-cresyl Phosphate	96.9	90.8	93.0		2.34
	Triadimefon	75.3	66.8	72.3		7.90
	Tris(1-chloro-2-propyl) phosphate (TCPP)	98.8	78.8	81.6		2.76
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	90.7	84.7	86.3		1.83
	Tris(2-chloroethyl) phosphate (TCEP)	101	87.1	90.7		4.04
EPA 8321B	2,4-D	102	115	122		5.63
	2,4,5-T	91.7	110	106		3.82
	Acesulfame K	93.9	89.6	88.5		1.25
	Acetaminophen	84.5	82.1	77.0		4.95
	Acetamiprid	76.6	77.5	82.7		6.42
	Afidopyropen	67.0	54.6	70.6		25.6
	AMPA	113	101	98.8		2.25
	Bentazon	98.8	104	104		0.288
	Benzovindiflupyr	86.7	82.6	85.4		3.32
	Carbamazepine	81.1	87.3	87.1		0.215
	Clothianidin	89.7	87.9	87.3		0.712
	Dinotefuran	94.3	99.8	101		0.760
	Diuron	73.5	63.6	63.0		0.994
	Endothall	91.3	101	99.0		2.34
	Fenuron	87.5	85.7	80.5		6.25
	Fluridone	81.9	83.5	80.3		3.86
	Glufosinate	110	94.3	88.5		6.33
	Glyphosate	125	104	97.1		6.59
	Hydrocodone	95.2	108	113		4.50
	Ibuprofen	66.4	74.0	62.9		16.3
	Imazapyr	96.3	111	115		3.08
	Imidacloprid	83.8	100	91.4		8.99
	Linuron	75.2	48.5	46.6		3.89
	Mandestrobin	92.3	93.5	93.1		0.486

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision SMP	MS
EPA 8321B	MCP	101	111	109			1.48
	Naproxen	65.0	77.2	102			27.3
	Primidone	82.9	92.2	88.9			3.73
	Pyraclostrobin	86.1	83.6	81.5			2.57
	Silvex	103	113	112			0.624
	Sucralose	102	103	104			1.38
	Thiamethoxam	91.7	79.0	77.3			2.19
	Tolfenpyrad	61.5	54.6	54.0			1.08
	Triclopyr	97.0	102	105			2.57
SM 2320 B-2011	Total Alkalinity	96.3				0.697	
SM 2540 C-2015	TDS	96.8				3.12	
SM 2540 D-2015	TSS	93.3					
SM 4500-F- C-2011	Fluoride	101	102	101			0.476
SM 5310 B-2011	Organic Carbon	99.8	89.5	89.9			0.332

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2396534
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2396534
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2396557
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2396557
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2396534
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2396534
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2396535
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2396535
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2396535
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2396535
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2396536
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2396558
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2396558
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2396556
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2396534
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2396557
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2396534
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2396534
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2396534
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2396535

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	03/28/2023			03/28/2023 14:38	Alexis Price	2396534
EPA 180.1 Rev. 2.0	03/28/2023			03/28/2023 14:11	Chandler E Cox	2396534
EPA 200.7 Rev. 4.4	03/28/2023	03/30/2023 11:35	George D Taylor	04/03/2023 18:00	McKinley C Carter	2396557
EPA 200.8 Rev. 5.4	03/28/2023	03/30/2023 11:35	George D Taylor	03/31/2023 20:09	Conrad Hartmann	2396557
	03/28/2023	03/30/2023 11:35	George D Taylor	04/03/2023 16:09	Conrad Hartmann	2396557
EPA 300.0 Rev. 2.1	03/28/2023			03/31/2023 13:50	James L Waggeberby	2396534
	03/28/2023			04/05/2023 20:06	Judith K. Clark	2396534
EPA 350.1 Rev. 2.0	03/28/2023			03/30/2023 12:26	Khloe J Berg	2396535
EPA 351.2 Rev. 2.0	03/28/2023	03/30/2023 12:39	Simonne.V. Calhoun	04/03/2023 14:25	Samantha L Bates	2396535
EPA 353.2 Rev. 2.0	03/28/2023			04/04/2023 09:49	Beverly Y. Sanders	2396535
EPA 365.1 Rev. 2.0	03/28/2023	03/30/2023 14:30	Alexis Price	03/31/2023 12:54	James L Waggeberby	2396535
EPA 365.1 Rev. 2.0 dissolved	03/28/2023			03/28/2023 15:19	Elise M. Gillis	2396536
EPA 8270E	03/28/2023	03/30/2023 08:30	Rasheda Ghaffari	03/31/2023 20:24	Arthur Maknenko	2396558
	03/28/2023	03/30/2023 08:30	Rasheda Ghaffari	04/03/2023 15:33	Vandana T. Nagar	2396558
	03/28/2023	03/30/2023 08:30	Rasheda Ghaffari	04/06/2023 16:08	Vandana T. Nagar	2396558
EPA 8321B	03/28/2023	03/31/2023 13:00	Manjita Shrestha	04/01/2023 02:59	Manjita Shrestha	2396556
	03/28/2023	03/31/2023 13:00	Manjita Shrestha	04/03/2023 10:52	Manjita Shrestha	2396556
	03/28/2023	04/03/2023 09:00	Hoor Shaik	04/07/2023 21:00	Juyoung Kim	2396556
SM 2320 B-2011	03/28/2023			03/31/2023 19:33	Dale L. Simmons	2396534
SM 2340 B-2011	03/28/2023			04/03/2023 18:00	McKinley C Carter	2396557
SM 2540 C-2015	03/28/2023			03/29/2023 16:02	Yijie Li	2396534
SM 2540 D-2015	03/28/2023			03/29/2023 16:02	Yijie Li	2396534
SM 4500-F- C-2011	03/28/2023			03/31/2023 19:33	Dale L. Simmons	2396534
SM 5310 B-2011	03/28/2023			04/01/2023 04:50	Khloe J Berg	2396535