

Chemical Analysis Report

NW-DIST-2023-08-23-04

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

Event Description: **Bioassessment**
Request ID: **RQ-2023-07-24-20**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
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Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 18-SEP-2023 09:45

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: Cedar Creek below Green rd.

Collection Date/Time: 08/22/2023 13:00

Field ID: G4NW0053

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2433084	DEP SOP: NU-094-1	Color (true)	28	A	PCU	P434246	
	EPA 180.1 Rev. 2.0	Turbidity	1.1		NTU	P434248	
	EPA 300.0 Rev. 2.1	Chloride	2.1		mg Cl/L	P434331	
		Sulfate	0.32	I	mg SO4/L	P434333	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P434512	
	SM 2540 C-2015	TDS	15	U	mg/L	P434620	
	SM 2540 D-2015	TSS	3	I	mg/L	P434617	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P434515	
2433085	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P434446	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.094	I	mg N/L	P434825	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.010		mg N/L	P434742	
	EPA 365.1 Rev. 2.0	Total-P	0.003	I	mg P/L	P434360	
	SM 5310 B-2011	Organic Carbon	2.2		mg C/L	P434449	
2433086	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P434237	
2433090	EPA 8321B	2,4-D	0.0064	I	ug/L	P434430	
		Acesulfame K	0.10	U	ug/L	P434207	
		2,4,5-T	0.0040	U	ug/L	P434430	
		AMPA	0.10	U	ug/L	P434207	
		Acetaminophen	0.0080	U	ug/L	P434430	
		Endothall	0.25	U	ug/L	P434207	
		Acetamiprid	0.0020	U	ug/L	P434430	MS, RPD
		Glufosinate	0.10	U	ug/L	P434207	
		Glyphosate	0.10	U	ug/L	P434207	
		Afidopyrophen	0.0020	U	ug/L	P434430	
		Bentazon	8.0E-04	U	ug/L	P434430	
		Sucralose	0.012	I	ug/L	P434207	
		Benzovindiflupyr	0.0020	U	ug/L	P434430	
		Carbamazepine	8.0E-04	U	ug/L	P434430	
		Clothianidin	0.0020	U	ug/L	P434430	
		Dinotefuran	0.0020	U	ug/L	P434430	
		Diuron	0.0020	U	ug/L	P434430	
		Fenuron	0.032	U	ug/L	P434430	
		Fluridone	8.0E-04	U	ug/L	P434430	
		Imazapyr	0.0040	U	ug/L	P434430	
		Hydrocodone	0.0020	U	ug/L	P434430	
		Ibuprofen	0.080	U	ug/L	P434430	
		Imidacloprid	0.0020	U	ug/L	P434430	
		Linuron	0.0040	U	ug/L	P434430	
		Mandestrobin	0.0020	U	ug/L	P434430	
		MCPD	0.0020	U	ug/L	P434430	
		Naproxen	0.0080	U	ug/L	P434430	
		Primidone	0.0040	U	ug/L	P434430	
		Pyraclostrobin	0.0020	U	ug/L	P434430	

Field ID: G4NW0053

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2433090	EPA 8321B	Silvex	0.0040	U	ug/L	P434430	
		Thiamethoxam	0.0020	U	ug/L	P434430	
		Tolfenpyrad	0.0020	U	ug/L	P434430	
		Triclopyr	0.0040	U	ug/L	P434430	
2433091	EPA 200.7 Rev. 4.4	Calcium	0.13	I	mg/L	P434377	
		Iron	100	I	ug/L	P434377	
		Magnesium	0.21		mg/L	P434377	
		Potassium	0.30	U	mg/L	P434377	
		Sodium	1.1	I	mg/L	P434377	
		Strontium	2.0	U	ug/L	P434377	
		Tin	3.0	U	ug/L	P434377	
		Titanium	0.75	U	ug/L	P434377	
		Vanadium	2.0	U	ug/L	P434377	
		Zinc	5.0	U	ug/L	P434377	
	EPA 200.8 Rev. 5.4	Aluminum	66		ug/L	P434377	
		Antimony	0.050	U	ug/L	P434377	
		Arsenic	0.080	I	ug/L	P434377	
		Barium	6.90		ug/L	P434377	
		Beryllium	0.016	I	ug/L	P434377	
		Boron	7.4	I	ug/L	P434377	
		Cadmium	0.020	U	ug/L	P434377	
		Chromium	0.40	U	ug/L	P434377	
		Cobalt	0.110		ug/L	P434377	
		Copper	0.40	U	ug/L	P434377	
		Lead	0.20	U	ug/L	P434377	
		Manganese	4.93		ug/L	P434377	
2433107	SM 2340 B-2011	Molybdenum	0.15	U	ug/L	P434377	
		Nickel	0.50	U	ug/L	P434377	
		Selenium	0.20	U	ug/L	P434377	
		Silver	0.010	U	ug/L	P434377	
	EPA 8270E	Thallium	0.10	U	ug/L	P434377	
		Hardness	1.2	I	mg/L	P434377	
		Oxybenzone**	10	U	ng/L	P434176	
		Acetochlor	0.21	U	ng/L	P434176	
		Octinoxate**	150	U	ng/L	P434176	
		Alachlor	0.41	U	ng/L	P434176	
		Avobenzone**	100	U	ng/L	P434176	
		Ametryn	1.1	U	ng/L	P434176	
		Atrazine	0.21	U	ng/L	P434176	
		PBDE-47**	4.1	U	ng/L	P434176	
		Atrazine Desethyl	1.3	U	ng/L	P434176	
		PBDE-99**	5.1	U	ng/L	P434176	
		Azinphos Methyl	3.1	U	ng/L	P434176	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P434176	
		Azoxystrobin	0.41	U	ng/L	P434176	

Field ID: G4NW0053

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2433107	EPA 8270E	Bromacil	0.62	U	ng/L	P434176	
		2-Ethylhexyl	12	U	ng/L	P434176	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.21	U	ng/L	P434176	
		Dechlorane Plus**	31	U	ng/L	P434176	
		Caffeine**	35	I J	ng/L	P434176	LCS
		Dechlorane 602**	5.1	U	ng/L	P434176	
		Carbophenothion	0.51	U	ng/L	P434176	
		Dechlorane 603**	4.1	U	ng/L	P434176	
		Carfentrazone Ethyl	0.15	U	ng/L	P434176	
		Hexabromobenzene**	6.2	U	ng/L	P434176	
		Chlorfenapyr	0.31	U	ng/L	P434176	
		PBB-153**	8.2	U	ng/L	P434176	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P434176	
		Pentabromotoluene**	3.1	U	ng/L	P434176	
		Chlorpyrifos Methyl	0.10	U	ng/L	P434176	
		Tris(2-chloroethyl) phosphate (TCEP)**	72	U	ng/L	P434176	
		Coumaphos	1.1	U	ng/L	P434176	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	20	I	ng/L	P434176	
		Cyanazine	5.1	U	ng/L	P434176	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P434176	
		Cyprodinil	0.21	U	ng/L	P434176	
		Tetradecachloro-m-terphenyl**	7.7	UJ	ng/L	P434176	LCS
		Demeton	3.6	U	ng/L	P434176	
		Diazinon	0.13	U	ng/L	P434176	
		Difenoconazole	0.62	U	ng/L	P434176	
		Dimethenamid	0.10	U	ng/L	P434176	
		Dimethomorph	0.31	UJ	ng/L	P434176	LCS, MS
		Disulfoton	0.62	U	ng/L	P434176	
		Dithiopyr	1.0	U	ng/L	P434176	
		EPTC	0.51	U	ng/L	P434176	
		Ethion	0.31	U	ng/L	P434176	
		Ethoprop	0.13	U	ng/L	P434176	
		Etridiazole	0.10	U	ng/L	P434176	
		Fenamiphos	0.46	U	ng/L	P434176	
		Fenbuconazole	0.51	U	ng/L	P434176	
		Fipronil	0.74	I	ng/L	P434176	
		Fipronil DesulfinyI**	0.10	U	ng/L	P434176	
		Fipronil Sulfide	0.10	U	ng/L	P434176	
		Fipronil Sulfone	0.10	U	ng/L	P434176	
		Fluazifop-P-butyl	0.10	U	ng/L	P434176	
		Fludioxonil	0.10	U	ng/L	P434176	
		Flumioxazin	3.1	U	ng/L	P434176	
		Flutolanil	0.10	U	ng/L	P434176	
		Fluxapyroxad	0.26	U	ng/L	P434176	

Field ID: G4NW0053

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2433107	EPA 8270E	Fonofos	0.15	U	ng/L	P434176	
		Hexazinone	340		ng/L	P434176	
		Imazalil	0.67	U	ng/L	P434176	
		Iprodione	0.51	U	ng/L	P434176	
		Loratadine**	0.31	U	ng/L	P434176	
		Malathion	0.36	U	ng/L	P434176	
		Metalaxyl	0.51	U	ng/L	P434176	
		Metolachlor	0.77	U	ng/L	P434176	
		Metribuzin	0.41	U	ng/L	P434176	
		Mevinphos	1.0	U	ng/L	P434176	
		Molinate	0.26	U	ng/L	P434176	
		Myclobutanil	0.36	U	ng/L	P434176	
		Naled	2.6	U	ng/L	P434176	
		Napropamide	0.72	U	ng/L	P434176	
		Norflurazon	1.0	U	ng/L	P434176	
		Oxadiazon	0.36	U	ng/L	P434176	
		Oxyfluorfen	0.21	U	ng/L	P434176	
		Parathion Ethyl	0.15	U	ng/L	P434176	
		Parathion Methyl	0.21	U	ng/L	P434176	
		Pendimethalin	0.77	U	ng/L	P434176	
		Phenytol**	5.5	U	ng/L	P434176	
		Phorate	0.26	U	ng/L	P434176	
		Prodiamine	0.21	U	ng/L	P434176	
		Prometon	3.1	U	ng/L	P434176	
		Prometryn	0.36	U	ng/L	P434176	
		Pronamide	0.10	U	ng/L	P434176	
		Propanil	0.10	U	ng/L	P434176	
		Propargite	0.82	U	ng/L	P434176	
		Propiconazole	0.62	U	ng/L	P434176	
		Pyraflufen Ethyl	0.31	U	ng/L	P434176	
		Pyridaben	1.4	U	ng/L	P434176	
		Pyriproxyfen	0.26	U	ng/L	P434176	
		Simazine	0.26	U	ng/L	P434176	
		Stirophos	0.41	U	ng/L	P434176	
		Sulfentrazone	1.4	U	ng/L	P434176	
		Tebuconazole	1.4	U	ng/L	P434176	
		Terbufos	0.21	U	ng/L	P434176	
		Terbuthylazine	0.21	U	ng/L	P434176	
		Thiobencarb	0.51	U	ng/L	P434176	
		Triadimefon	0.15	U	ng/L	P434176	

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 351.2 Rev. 2.0: Batch matrix spike recoveries and relative percent difference are unavailable because of analytical difficulties.

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: P434246

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P434248

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P434377

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: P434377

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: P434331

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: P434333

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P434446

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P434825

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P434742

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P434360

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P434237

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

Reference Method: EPA 8270E
Batch ID: P434176

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: P434176

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: P434176

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: P434176

Component	Result	Code	Units
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	150	U	ng/L
Octinoxate	150	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: P434176

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: P434207

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: P434430

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: P434430

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: P434512

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

Reference Method: SM 2540 C-2015

Batch ID: P434620

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P434617

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P434515

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P434449

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: P434246

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P434248

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	99.3		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P434377

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	102		P	85 - 115
Iron	103		P	85 - 115
Magnesium	104		P	85 - 115
Potassium	101		P	85 - 115
Sodium	100		P	85 - 115
Strontium	99.5		P	85 - 115
Tin	107		P	85 - 115
Titanium	99.8		P	85 - 115
Vanadium	102		P	85 - 115
Zinc	103		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P434377

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	103		P	85 - 115
Antimony	102		P	85 - 115
Arsenic	103		P	85 - 115
Barium	107		P	85 - 115
Beryllium	100		P	85 - 115
Boron	104		P	85 - 115
Cadmium	102		P	85 - 115
Chromium	98.8		P	85 - 115
Cobalt	100		P	85 - 115
Copper	101		P	85 - 115
Lead	98.3		P	85 - 115
Manganese	99.1		P	85 - 115
Molybdenum	101		P	85 - 115
Nickel	101		P	85 - 115
Selenium	103		P	85 - 115
Silver	114		P	85 - 115
Thallium	103		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434331

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P434333

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

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P434446

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

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P434825

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

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P434742

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: P434360

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P434237

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

Reference Method: EPA 8270E

Batch ID: P434176

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	52.1		P	42 - 162
Acetochlor	79.1		P	69 - 123
Alachlor	82.6		P	65 - 118
Ametryn	119		P	58 - 141
Atrazine	98.9		P	73 - 118
Atrazine Desethyl	96.0		P	32 - 125
Avobenzone	91.0		P	40 - 203
Azinphos Methyl	147		P	36 - 197
Azoxystrobin	114		P	58 - 226
Bromacil	96.5		P	48 - 120
Butylate	59.0		P	27 - 85.0
Caffeine	180		F	40 - 137
Carbophenothion	95.8		P	54 - 132
Carfentrazone Ethyl	104		P	60 - 142
Chlorfenapyr	91.7		P	53 - 117
Chlorpyrifos Ethyl	78.1		P	59 - 116

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P434176

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	105		P	66 - 119
Coumaphos	147		P	11 - 234
Cyanazine	117		P	61 - 248
Cyprodinil	87.0		P	50 - 147
Dechlorane 602	53.7		P	50 - 150
Dechlorane 603	69.5		P	50 - 150
Dechlorane Plus	65.8		P	47 - 182
Demeton	69.4		P	30 - 138
Diazinon	92.3		P	67 - 126
Difenoconazole	142		P	38 - 205
Dimethenamid	87.0		P	57 - 111
Dimethomorph	258		F	16 - 212
Disulfoton	95.0		P	46 - 126
Dithiopyr	81.4		P	62 - 115
EPTC	54.6		P	28 - 80.0
Ethion	58.0		P	24 - 122
Ethoprop	97.1		P	62 - 113
Etridiazole	54.2		P	28 - 92.0
Fenamiphos	95.7		P	57 - 128
Fenbuconazole	107		P	52 - 155
Fipronil	92.4		P	63 - 130
Fipronil Desulfinyl	80.5		P	61 - 130
Fipronil Sulfide	92.3		P	56 - 117
Fipronil Sulfone	80.9		P	52 - 118
Fluazifop-P-butyl	92.2		P	61 - 128
Fludioxonil	91.5		P	59 - 129
Flumioxazin	140		P	30 - 250
Flutolanil	80.3		P	53 - 127
Fluxapyroxad	81.7		P	42 - 132
Fonofos	101		P	61 - 110
Hexabromobenzene	53.6		P	50 - 150
Hexazinone	94.0		P	46 - 139
Imazalil	78.8		P	40 - 139
Iprodione	96.0		P	40 - 146
Loratadine	158		P	10 - 224
Malathion	96.1		P	61 - 135
Metaxyl	76.3		P	58 - 121
Metolachlor	111		P	64 - 118
Metribuzin	103		P	45 - 245
Mevinphos	94.7		P	49 - 118
Molinate	59.6		P	42 - 92.0
Myclobutanil	106		P	55 - 127
Naled	52.3		P	10 - 114
Napropamide	81.9		P	39 - 121
Norflurazon	87.8		P	55 - 129
Octinoxate	71.2		P	26 - 166
Oxadiazon	80.4		P	54 - 115
Oxybenzone	69.1		P	49 - 135
Oxyfluorfen	105		P	64 - 139
Parathion Ethyl	96.6		P	70 - 111
Parathion Methyl	97.0		P	76 - 136
PBB-153	59.1		P	50 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P434176

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBDE-47	53.7		P	41 - 148
PBDE-99	52.9		P	38 - 147
Pendimethalin	104		P	52 - 118
Pentabromotoluene	55.6		P	50 - 150
Phenytoin	40.4		P	10 - 162
Phorate	95.4		P	40 - 122
Prodiamine	48.0		P	26 - 141
Prometon	95.7		P	54 - 122
Prometryn	91.3		P	61 - 128
Pronamide	101		P	72 - 121
Propanil	117		P	45 - 144
Propargite	74.8		P	10 - 199
Propiconazole	93.7		P	56 - 127
Pyraflufen Ethyl	98.0		P	56 - 140
Pyridaben	120		P	26 - 211
Pyriproxyfen	86.6		P	33 - 194
Simazine	114		P	67 - 121
Stirophos	56.4		P	20 - 142
Sulfentrazone	78.8		P	21 - 144
Tebuconazole	70.2		P	10 - 122
Terbufos	97.3		P	60 - 129
Terbutylazine	76.8		P	69 - 113
Tetradecachloro-m-terphenyl	54.3		F	70 - 200
Thiobencarb	92.1		P	51 - 120
Tri-o-cresyl Phosphate	68.1		P	49 - 150
Triadimefon	80.1		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	70.9		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	65.3		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	71.8		P	70 - 180

Reference Method: EPA 8321B

Batch ID: P434207

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	117		P	40 - 150
AMPA	129		P	40 - 150
Endothall	92.7		P	40 - 150
Glufosinate	96.1		P	40 - 150
Glyphosate	71.8		P	40 - 150
Sucralose	123		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P434430

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	71.2		P	40 - 150
2,4,5-T	79.6		P	40 - 150
Acetaminophen	89.5		P	30 - 150
Acetamiprid	106		P	40 - 150
Afidopyropen	74.7		P	30 - 150
Bentazon	111		P	30 - 150
Benzovindiflupyr	96.1		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P434430

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Carbamazepine	93.2		P	40 - 150
Clothianidin	102		P	40 - 150
Dinotefuran	96.4		P	40 - 150
Diuron	84.8		P	40 - 150
Fenuron	106		P	40 - 150
Fluridone	89.6		P	40 - 150
Hydrocodone	110		P	40 - 150
Ibuprofen	78.7		P	40 - 150
Imazapyr	77.2		P	40 - 150
Imidacloprid	89.3		P	40 - 150
Linuron	78.2		P	40 - 150
Mandestrobin	105		P	40 - 150
MCPPP	87.5		P	40 - 150
Naproxen	55.3		P	40 - 150
Primidone	94.4		P	40 - 150
Pyraclostrobin	95.2		P	40 - 150
Silvex	80.9		P	40 - 150
Thiamethoxam	104		P	40 - 150
Tolfenpyrad	60.0		P	30 - 150
Triclopyr	84.0		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P434512

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.0		P	92 - 105

Reference Method: SM 2540 C-2015

Batch ID: P434620

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	94.4		P	90 - 110

Reference Method: SM 2540 D-2015

Batch ID: P434617

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	93.9		P	85 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P434515

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.7		P	94 - 106

Reference Method: SM 5310 B-2011

Batch ID: P434449

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P434377

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2433091	Calcium	101	98.9	P/P	80 - 120
2433091	Iron	103	101	P/P	80 - 120
2433091	Magnesium	103	102	P/P	80 - 120
2433091	Potassium	101	101	P/P	80 - 120
2433091	Sodium	97.1	97.6	P/P	80 - 120
2433091	Strontium	97.6	98.2	P/P	80 - 120
2433091	Tin	102	106	P/P	80 - 120
2433091	Titanium	98.7	100	P/P	80 - 120
2433091	Vanadium	99.9	103	P/P	80 - 120
2433091	Zinc	101	103	P/P	80 - 120
2433432	Calcium	98.3		P	80 - 120
2433432	Iron	101		P	80 - 120
2433432	Magnesium	99.9		P	80 - 120
2433432	Potassium	95.8		P	80 - 120
2433432	Sodium	96.3		P	80 - 120
2433432	Strontium	96.2		P	80 - 120
2433432	Tin	105		P	80 - 120
2433432	Titanium	98.9		P	80 - 120
2433432	Vanadium	101		P	80 - 120
2433432	Zinc	102		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P434377

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2433091	Aluminum	104	103	P/P	80 - 120
2433091	Antimony	103	103	P/P	80 - 120
2433091	Arsenic	106	106	P/P	80 - 120
2433091	Barium	109	109	P/P	80 - 120
2433091	Beryllium	99.7	96.3	P/P	80 - 120
2433091	Boron	103	103	P/P	80 - 120
2433091	Cadmium	103	104	P/P	80 - 120
2433091	Chromium	99.3	99.2	P/P	80 - 120
2433091	Cobalt	102	102	P/P	80 - 120
2433091	Copper	105	106	P/P	80 - 120
2433091	Lead	99.9	101	P/P	80 - 120
2433091	Manganese	100	99.9	P/P	80 - 120
2433091	Molybdenum	102	102	P/P	80 - 120
2433091	Nickel	103	104	P/P	80 - 120
2433091	Selenium	104	107	P/P	80 - 120
2433091	Silver	114	115	P/P	80 - 120
2433091	Thallium	106	107	P/P	80 - 120
2433432	Aluminum	103		P	80 - 120
2433432	Antimony	105		P	80 - 120
2433432	Arsenic	103		P	80 - 120
2433432	Barium	110		P	80 - 120
2433432	Beryllium	98.9		P	80 - 120
2433432	Boron	104		P	80 - 120
2433432	Cadmium	106		P	80 - 120
2433432	Chromium	101		P	80 - 120
2433432	Cobalt	99.6		P	80 - 120
2433432	Copper	99.3		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P434377

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2433432	Lead	99.3		P	80 - 120
2433432	Manganese	102		P	80 - 120
2433432	Molybdenum	102		P	80 - 120
2433432	Nickel	99.8		P	80 - 120
2433432	Selenium	106		P	80 - 120
2433432	Silver	116		P	80 - 120
2433432	Thallium	105		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P434331

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2432696	Chloride	101		P	90 - 110
2433094	Chloride	103		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P434333

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2432696	Sulfate	97.9		P	90 - 110
2433094	Sulfate	98.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P434446

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2433085	Ammonia-N	100	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P434742

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2432875	NO2NO3-N	101		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P434360

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2433097	Total-P	107	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P434237

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2433072	O-Phosphate-P	97.9	98.0	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P434176

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2431920	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	64.5	75.5	P/P	26 - 165
2431920	Acetochlor	81.1	80.5	P/P	67 - 124

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P434176

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2431920	Alachlor	70.6	72.1	P/P	60 - 120
2431920	Ametryn	140	128	P/P	54 - 216
2431920	Atrazine	94.9	87.3	P/P	66 - 128
2431920	Atrazine Desethyl	100	93.2	P/P	15 - 122
2431920	Avobenzone	117	121	P/P	37 - 178
2431920	Azinphos Methyl	135	134	P/P	40 - 292
2431920	Azoxystrobin	114	102	P/P	35 - 220
2431920	Bromacil	102	94.6	P/P	45 - 127
2431920	Butylate	40.4	48.4	P/P	20 - 83.0
2431920	Caffeine	134	113	P/P	10 - 194
2431920	Carbophenothion	89.8	94.6	P/P	57 - 127
2431920	Carfentrazone Ethyl	98.9	98.3	P/P	51 - 141
2431920	Chlorfenapyr	73.4	74.6	P/P	46 - 111
2431920	Chlorpyrifos Ethyl	76.7	72.4	P/P	52 - 120
2431920	Chlorpyrifos Methyl	99.5	102	P/P	63 - 119
2431920	Coumaphos	136	134	P/P	10 - 228
2431920	Cyanazine	109	119	P/P	59 - 241
2431920	Cyprodinil	77.8	68.7	P/P	47 - 146
2431920	Dechlorane 602	55.7	71.7	P/P	50 - 150
2431920	Dechlorane 603	82.5	93.2	P/P	50 - 150
2431920	Dechlorane Plus	78.2	81.6	P/P	50 - 150
2431920	Demeton	67.8	66.5	P/P	40 - 136
2431920	Diazinon	95.3	84.4	P/P	69 - 132
2431920	Difenoconazole	126	128	P/P	57 - 258
2431920	Dimethenamid	90.6	88.4	P/P	54 - 110
2431920	Dimethomorph	211	211	F/F	28 - 210
2431920	Disulfoton	93.5	98.6	P/P	43 - 133
2431920	Dithiopyr	85.8	89.1	P/P	39 - 116
2431920	EPTC	38.7	45.5	P/P	20 - 78.0
2431920	Ethion	42.0	58.3	P/P	17 - 119
2431920	Ethoprop	90.1	91.7	P/P	66 - 120
2431920	Etridiazole	49.0	51.2	P/P	28 - 96.0
2431920	Fenamiphos	78.6	74.5	P/P	41 - 126
2431920	Fenbuconazole	80.8	76.6	P/P	42 - 169
2431920	Fipronil	92.2	90.9	P/P	61 - 132
2431920	Fipronil Desulfinyl	81.1	81.3	P/P	56 - 132
2431920	Fipronil Sulfide	90.5	87.3	P/P	48 - 119
2431920	Fipronil Sulfone	88.2	82.5	P/P	42 - 131
2431920	Fluazifop-P-butyl	83.1	82.5	P/P	53 - 131
2431920	Fludioxonil	89.3	87.7	P/P	56 - 127
2431920	Flumioxazin	143	144	P/P	19 - 300
2431920	Flutolanil	84.9	75.8	P/P	41 - 127
2431920	Fluxapyroxad	74.4	83.1	P/P	42 - 172
2431920	Fonofos	90.1	83.0	P/P	59 - 113
2431920	Hexabromobenzene	58.9	70.3	P/P	50 - 150
2431920	Hexazinone	89.8	90.3	P/P	66 - 122
2431920	Imazalil	75.9	73.1	P/P	21 - 283
2431920	Iprodione	74.7	73.6	P/P	43 - 150
2431920	Loratadine	149	136	P/P	23 - 201
2431920	Malathion	86.3	84.1	P/P	58 - 136
2431920	Metalaxyl	87.8	83.0	P/P	55 - 120
2431920	Metolachlor	92.1	95.5	P/P	57 - 121

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P434176

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2431920	Metribuzin	100	105	P/P	58 - 294
2431920	Mevinphos	89.2	82.2	P/P	50 - 126
2431920	Molinate	48.4	52.3	P/P	42 - 93.0
2431920	Myclobutanil	92.6	91.3	P/P	55 - 125
2431920	Naled	39.6	40.2	P/P	18 - 200
2431920	Napropamide	77.1	73.9	P/P	39 - 110
2431920	Norflurazon	83.2	83.0	P/P	48 - 128
2431920	Octinoxate	97.8	99.6	P/P	21 - 159
2431920	Oxadiazon	76.6	74.9	P/P	43 - 112
2431920	Oxybenzone	104	101	P/P	41 - 142
2431920	Oxyfluorfen	93.6	99.4	P/P	64 - 153
2431920	Parathion Ethyl	83.5	90.1	P/P	69 - 114
2431920	Parathion Methyl	92.3	85.7	P/P	79 - 139
2431920	PBB-153	61.9	76.9	P/P	50 - 150
2431920	PBDE-47	69.5	81.6	P/P	27 - 144
2431920	PBDE-99	59.8	71.7	P/P	18 - 150
2431920	Pendimethalin	97.3	93.0	P/P	50 - 139
2431920	Pentabromotoluene	80.3	83.2	P/P	50 - 150
2431920	Phenytoin	55.0	73.9	P/P	10 - 146
2431920	Phorate	87.1	96.2	P/P	54 - 161
2431920	Prodiamine	35.4	31.8	P/P	30 - 161
2431920	Prometon	94.8	88.8	P/P	45 - 134
2431920	Prometryn	94.4	97.3	P/P	45 - 137
2431920	Pronamide	100	105	P/P	65 - 133
2431920	Propanil	120	116	P/P	49 - 142
2431920	Propargite	73.9	80.5	P/P	10 - 203
2431920	Propiconazole	71.8	75.9	P/P	38 - 146
2431920	Pyraflufen Ethyl	84.1	85.9	P/P	34 - 153
2431920	Pyridaben	94.4	105	P/P	12 - 192
2431920	Pyriproxyfen	61.4	86.1	P/P	33 - 180
2431920	Simazine	102	102	P/P	51 - 157
2431920	Stiropfos	45.1	51.0	P/P	10 - 128
2431920	Sulfentrazone	111	111	P/P	53 - 186
2431920	Tebuconazole	57.9	71.1	P/P	10 - 133
2431920	Terbufos	103	102	P/P	65 - 139
2431920	Terbutylazine	80.3	74.7	P/P	66 - 117
2431920	Tetradecachloro-m-terphenyl	88.3	93.0	P/P	70 - 200
2431920	Thiobencarb	89.2	84.6	P/P	51 - 119
2431920	Tri-o-cresyl Phosphate	87.1	96.0	P/P	31 - 144
2431920	Triadimefon	80.4	81.9	P/P	48 - 119
2431920	Tris(1-chloro-2-propyl) phosphate (TCPP)	113	112	P/P	50 - 150
2431920	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	96.9	96.2	P/P	50 - 150
2431920	Tris(2-chloroethyl) phosphate (TCEP)	91.5	94.3	P/P	70 - 180

Reference Method: EPA 8321B

Batch ID: P434207

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2432732	Acesulfame K	122	126	P/P	40 - 150
2432732	AMPA	101	106	P/P	40 - 150
2432732	Endothall	90.8	93.2	P/P	40 - 150
2432732	Glufosinate	87.8	82.4	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P434207

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2432732	Glyphosate	68.9	66.1	P/P	40 - 150
2432732	Sucralose	125	123	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P434430

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2432763	2,4-D	108	107	P/P	40 - 150
2432763	2,4,5-T	116	123	P/P	40 - 150
2432763	Acetaminophen	117	115	P/P	30 - 150
2432763	Acetamiprid	30.9	52.2	F/P	40 - 150
2432763	Afidopyropen	42.5	54.7	P/P	30 - 150
2432763	Bentazon	61.3	61.5	P/P	30 - 150
2432763	Benzovindiflupyr	97.0	93.2	P/P	40 - 150
2432763	Carbamazepine	70.9	66.1	P/P	40 - 150
2432763	Clothianidin	97.0	99.9	P/P	40 - 150
2432763	Dinotefuran	70.8	69.2	P/P	40 - 150
2432763	Diuron	56.8	57.4	P/P	40 - 150
2432763	Fenuron	53.1	53.9	P/P	40 - 150
2432763	Fluridone	69.7	66.4	P/P	40 - 150
2432763	Hydrocodone	70.8	72.5	P/P	40 - 150
2432763	Ibuprofen	79.8	71.2	P/P	40 - 150
2432763	Imazapyr	69.2	68.8	P/P	40 - 150
2432763	Imidacloprid	119	114	P/P	40 - 150
2432763	Linuron	63.0	69.1	P/P	40 - 150
2432763	Mandestrobin	103	96.6	P/P	40 - 150
2432763	MCP	127	120	P/P	40 - 150
2432763	Naproxen	88.4	84.3	P/P	40 - 150
2432763	Primidone	80.5	81.8	P/P	40 - 150
2432763	Pyraclostrobin	94.6	92.1	P/P	40 - 150
2432763	Silvex	122	123	P/P	40 - 150
2432763	Thiamethoxam	86.9	86.1	P/P	40 - 150
2432763	Tolfenpyrad	60.4	56.0	P/P	30 - 150
2432763	Triclopyr	125	124	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P434515

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2433094	Fluoride	99.0	97.8	P/P	94 - 106

Reference Method: SM 5310 B-2011

Batch ID: P434449

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2433274	Organic Carbon	96.6	95.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P434246

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2433084	Color (true)	2.48	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P434248

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2433008	Turbidity	1.02	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P434377

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2433091	Calcium	1.70	Spike	P	0 - 20
2433091	Iron	1.65	Spike	P	0 - 20
2433091	Magnesium	1.60	Spike	P	0 - 20
2433091	Potassium	0.0697	Spike	P	0 - 20
2433091	Sodium	0.420	Spike	P	0 - 20
2433091	Strontium	0.602	Spike	P	0 - 20
2433091	Tin	3.83	Spike	P	0 - 20
2433091	Titanium	1.64	Spike	P	0 - 20
2433091	Vanadium	2.69	Spike	P	0 - 20
2433091	Zinc	2.17	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P434377

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2433091	Aluminum	0.267	Spike	P	0 - 20
2433091	Antimony	0.150	Spike	P	0 - 20
2433091	Arsenic	0.00818	Spike	P	0 - 20
2433091	Barium	0.0584	Spike	P	0 - 20
2433091	Beryllium	3.32	Spike	P	0 - 20
2433091	Boron	0.535	Spike	P	0 - 20
2433091	Cadmium	1.52	Spike	P	0 - 20
2433091	Chromium	0.118	Spike	P	0 - 20
2433091	Cobalt	0.164	Spike	P	0 - 20
2433091	Copper	0.430	Spike	P	0 - 20
2433091	Lead	0.663	Spike	P	0 - 20
2433091	Manganese	0.191	Spike	P	0 - 20
2433091	Molybdenum	0.599	Spike	P	0 - 20
2433091	Nickel	1.30	Spike	P	0 - 20
2433091	Selenium	2.31	Spike	P	0 - 20
2433091	Silver	0.992	Spike	P	0 - 20
2433091	Thallium	0.723	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P434331

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432696	Chloride	0.355	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P434446

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2433085	Ammonia-N	0.537	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P434742

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432875	NO2NO3-N	0.362	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P434360

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2433097	Total-P	0.446	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P434237

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2433072	O-Phosphate-P	0.0526	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P434176

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431920	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	15.8	Spike	P	0 - 37
2431920	Acetochlor	0.758	Spike	P	0 - 28
2431920	Alachlor	2.20	Spike	P	0 - 30
2431920	Ametryn	8.67	Spike	P	0 - 32
2431920	Atrazine	5.70	Spike	P	0 - 41
2431920	Atrazine Desethyl	7.41	Spike	P	0 - 36
2431920	Avobenzone	2.76	Spike	P	0 - 36
2431920	Azinphos Methyl	0.581	Spike	P	0 - 75
2431920	Azoxystrobin	11.3	Spike	P	0 - 39
2431920	Bromacil	7.90	Spike	P	0 - 33
2431920	Butylate	18.1	Spike	P	0 - 44
2431920	Caffeine	15.4	Spike	P	0 - 74
2431920	Carbophenothion	5.23	Spike	P	0 - 25
2431920	Carfentrazone Ethyl	0.602	Spike	P	0 - 27
2431920	Chlorfenapyr	1.61	Spike	P	0 - 24
2431920	Chlorpyrifos Ethyl	5.80	Spike	P	0 - 26

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P434176

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431920	Chlorpyrifos Methyl	2.37	Spike	P	0 - 26
2431920	Coumaphos	1.64	Spike	P	0 - 28
2431920	Cyanazine	9.22	Spike	P	0 - 48
2431920	Cyprodinil	12.5	Spike	P	0 - 29
2431920	Dechlorane 602	25.1	Spike	P	0 - 30
2431920	Dechlorane 603	12.2	Spike	P	0 - 30
2431920	Dechlorane Plus	4.21	Spike	P	0 - 30
2431920	Demeton	1.99	Spike	P	0 - 33
2431920	Diazinon	12.1	Spike	P	0 - 29
2431920	Difenoconazole	1.63	Spike	P	0 - 34
2431920	Dimethenamid	2.43	Spike	P	0 - 39
2431920	Dimethomorph	0.0575	Spike	P	0 - 51
2431920	Disulfoton	5.28	Spike	P	0 - 30
2431920	Dithiopyr	3.82	Spike	P	0 - 26
2431920	EPTC	16.1	Spike	P	0 - 43
2431920	Ethion	32.3	Spike	P	0 - 79
2431920	Ethoprop	1.74	Spike	P	0 - 29
2431920	Etridiazole	4.27	Spike	P	0 - 33
2431920	Fenamiphos	5.37	Spike	P	0 - 40
2431920	Fenbuconazole	5.31	Spike	P	0 - 74
2431920	Fipronil	1.48	Spike	P	0 - 29
2431920	Fipronil Desulfinyf	0.285	Spike	P	0 - 32
2431920	Fipronil Sulfide	3.59	Spike	P	0 - 30
2431920	Fipronil Sulfone	6.75	Spike	P	0 - 33
2431920	Fluazifop-P-butyl	0.744	Spike	P	0 - 38
2431920	Fludioxonil	1.78	Spike	P	0 - 29
2431920	Flumioxazin	0.583	Spike	P	0 - 51
2431920	Flutolanil	11.4	Spike	P	0 - 25
2431920	Fluxapyroxad	11.0	Spike	P	0 - 45
2431920	Fonofos	8.19	Spike	P	0 - 27
2431920	Hexabromobenzene	17.6	Spike	P	0 - 30
2431920	Hexazinone	0.596	Spike	P	0 - 30
2431920	Imazalil	3.77	Spike	P	0 - 100
2431920	Iprodione	1.49	Spike	P	0 - 33
2431920	Loratadine	9.12	Spike	P	0 - 56
2431920	Malathion	2.52	Spike	P	0 - 37
2431920	Metalaxyl	5.57	Spike	P	0 - 40
2431920	Metolachlor	3.33	Spike	P	0 - 29
2431920	Metribuzin	3.98	Spike	P	0 - 45
2431920	Mevinphos	8.26	Spike	P	0 - 29
2431920	Molinate	7.83	Spike	P	0 - 33
2431920	Myclobutanil	1.38	Spike	P	0 - 26
2431920	Naled	1.51	Spike	P	0 - 37
2431920	Napropamide	4.21	Spike	P	0 - 44
2431920	Norflurazon	0.246	Spike	P	0 - 30
2431920	Octinoxate	1.78	Spike	P	0 - 45
2431920	Oxadiazon	2.26	Spike	P	0 - 28
2431920	Oxybenzone	3.12	Spike	P	0 - 46
2431920	Oxyfluorfen	6.04	Spike	P	0 - 28
2431920	Parathion Ethyl	7.67	Spike	P	0 - 31
2431920	Parathion Methyl	7.52	Spike	P	0 - 29

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P434176

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431920	PBB-153	21.6	Spike	P	0 - 30
2431920	PBDE-47	16.0	Spike	P	0 - 36
2431920	PBDE-99	18.0	Spike	P	0 - 40
2431920	Pendimethalin	4.52	Spike	P	0 - 33
2431920	Pentabromotoluene	3.57	Spike	P	0 - 30
2431920	Phenytoin	29.2	Spike	P	0 - 100
2431920	Phorate	10.0	Spike	P	0 - 36
2431920	Prodiamine	10.7	Spike	P	0 - 71
2431920	Prometon	6.55	Spike	P	0 - 36
2431920	Prometryn	3.01	Spike	P	0 - 28
2431920	Pronamide	5.12	Spike	P	0 - 24
2431920	Propanil	3.64	Spike	P	0 - 28
2431920	Propargite	8.62	Spike	P	0 - 43
2431920	Propiconazole	5.57	Spike	P	0 - 33
2431920	Pyraflufen Ethyl	2.22	Spike	P	0 - 29
2431920	Pyridaben	5.99	Spike	P	0 - 30
2431920	Pyriproxyfen	33.5	Spike	P	0 - 79
2431920	Simazine	0.454	Spike	P	0 - 29
2431920	Stiropfos	12.2	Spike	P	0 - 61
2431920	Sulfentrazone	0.178	Spike	P	0 - 33
2431920	Tebuconazole	20.4	Spike	P	0 - 69
2431920	Terbufos	0.307	Spike	P	0 - 29
2431920	Terbuthylazine	7.31	Spike	P	0 - 32
2431920	Tetradecachloro-m-terphenyl	5.18	Spike	P	0 - 30
2431920	Thiobencarb	5.30	Spike	P	0 - 26
2431920	Tri-o-cresyl Phosphate	9.74	Spike	P	0 - 33
2431920	Triadimefon	1.87	Spike	P	0 - 28
2431920	Tris(1-chloro-2-propyl) phosphate (TCPP)	1.15	Spike	P	0 - 30
2431920	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	0.682	Spike	P	0 - 30
2431920	Tris(2-chloroethyl) phosphate (TCEP)	3.02	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P434207

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432732	Acesulfame K	3.26	Spike	P	0 - 30
2432732	AMPA	4.72	Spike	P	0 - 30
2432732	Endothall	2.60	Spike	P	0 - 30
2432732	Glufosinate	6.29	Spike	P	0 - 30
2432732	Glyphosate	4.11	Spike	P	0 - 30
2432732	Sucralose	1.79	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P434430

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432763	2,4-D	1.44	Spike	P	0 - 30
2432763	2,4,5-T	5.74	Spike	P	0 - 30
2432763	Acetaminophen	1.10	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P434430

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432763	Acetamiprid	51.2	Spike	F	0 - 30
2432763	Afidopyropen	25.2	Spike	P	0 - 30
2432763	Bentazon	0.269	Spike	P	0 - 30
2432763	Benzovindiflupyr	3.92	Spike	P	0 - 30
2432763	Carbamazepine	7.00	Spike	P	0 - 30
2432763	Clothianidin	3.01	Spike	P	0 - 30
2432763	Dinotefuran	2.31	Spike	P	0 - 30
2432763	Diuron	1.18	Spike	P	0 - 30
2432763	Fenuron	1.61	Spike	P	0 - 30
2432763	Fluridone	4.83	Spike	P	0 - 30
2432763	Hydrocodone	2.39	Spike	P	0 - 30
2432763	Ibuprofen	11.3	Spike	P	0 - 30
2432763	Imazapyr	0.579	Spike	P	0 - 30
2432763	Imidacloprid	4.62	Spike	P	0 - 30
2432763	Linuron	9.16	Spike	P	0 - 30
2432763	Mandestrobin	5.94	Spike	P	0 - 30
2432763	MCPP	5.99	Spike	P	0 - 30
2432763	Naproxen	4.80	Spike	P	0 - 30
2432763	Primidone	1.61	Spike	P	0 - 30
2432763	Pyraclostrobin	2.72	Spike	P	0 - 30
2432763	Silvex	0.987	Spike	P	0 - 30
2432763	Thiamethoxam	0.908	Spike	P	0 - 30
2432763	Tolfenpyrad	7.54	Spike	P	0 - 30
2432763	Triclopyr	0.682	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P434512

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2433094	Total Alkalinity	2.46	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015

Batch ID: P434620

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432702	TDS	1.44	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011

Batch ID: P434515

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2433094	Fluoride	1.03	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011

Batch ID: P434449

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

Reference Method: SM 5310 B-2011
Batch ID: P434449

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2433274	Organic Carbon	0.946	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2433090
Field Sample ID: G4NW0053

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	93.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	76.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	81.7	P	30 - 160
EPA 8321B	Diuron-d6	61.1	P	30 - 160
EPA 8321B	Endothall-d6	99.8	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	73.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	55.1	P	30 - 160
EPA 8321B	Primidone-d5	75.3	P	30 - 160
EPA 8321B	Sucralose-d6	131	P	30 - 160

Lab Sample ID: 2433107
Field Sample ID: G4NW0053

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	84.9	P	20 - 200
EPA 8270E	Simazine-d10	97.4	P	62 - 142
EPA 8270E	Terbufos-d10	97.7	P	58 - 132
EPA 8270E	Terphenyl-d14	78.0	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A121182

Included Lab Sample IDs: 2433084

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.9	97.3	P/P	90 - 110
Sulfate	97.9	95.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A121203

Included Lab Sample IDs: 2433086

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.3	98.5	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A121205

Included Lab Sample IDs: 2433084

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A121206

Included Lab Sample IDs: 2433084

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

Reference Method: EPA 8321B

Run ID: A121277

Included Lab Sample IDs: 2433090

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	103	105	P/P	60 - 160
Endothall	93.9	93.5	P/P	60 - 160
Glufosinate	102	99.0	P/P	60 - 160
Glyphosate	98.4	94.2	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A121288

Included Lab Sample IDs: 2433085

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.8	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A121292

Included Lab Sample IDs: 2433085

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.7	99.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A121294

Included Lab Sample IDs: 2433085

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.4	96.1	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A121296

Included Lab Sample IDs: 2433107

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	90.0		P	80 - 120
Avobenzone	94.4		P	80 - 120
Dechlorane 602	97.6		P	80 - 120
Dechlorane 603	90.6		P	80 - 120
Dechlorane Plus	92.1		P	80 - 120
Hexabromobenzene	86.7		P	80 - 120
Octinoxate	93.3		P	80 - 120
Oxybenzone	95.0		P	80 - 120
PBB-153	86.9		P	80 - 120
PBDE-47	87.1		P	80 - 120
PBDE-99	89.9		P	80 - 120
Pentabromotoluene	93.3		P	80 - 120
Tetradecachloro-m-terphenyl	94.4		P	80 - 120
Tri-o-cresyl Phosphate	93.1		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	88.4		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	94.7		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	91.2		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A121299

Included Lab Sample IDs: 2433091

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.7	101	P/P	90 - 110
Antimony	97.7	98.9	P/P	90 - 110
Arsenic	103	104	P/P	90 - 110
Barium	102	104	P/P	90 - 110
Beryllium	100	101	P/P	90 - 110
Boron	95.4	97.6	P/P	90 - 110
Cadmium	99.6	102	P/P	90 - 110
Chromium	98.5	99.1	P/P	90 - 110
Cobalt	99.3	99.9	P/P	90 - 110
Copper	101	102	P/P	90 - 110
Lead	96.1	96.7	P/P	90 - 110
Manganese	98.6	98.5	P/P	90 - 110
Molybdenum	99.0	101	P/P	90 - 110
Nickel	101	102	P/P	90 - 110
Selenium	101	102	P/P	90 - 110
Silver	97.4	98.9	P/P	90 - 110
Thallium	99.4	99.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A121302

Included Lab Sample IDs: 2433091

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	98.4	97.0	P/P	90 - 110
Iron	99.8	98.5	P/P	90 - 110
Magnesium	99.5	98.4	P/P	90 - 110
Potassium	96.7	95.5	P/P	90 - 110
Sodium	94.1	92.4	P/P	90 - 110
Strontium	98.4	93.8	P/P	90 - 110
Tin	101	98.3	P/P	90 - 110
Titanium	99.7	96.6	P/P	90 - 110
Vanadium	101	97.3	P/P	90 - 110
Zinc	101	96.7	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A121328

Included Lab Sample IDs: 2433084

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.3	95.3	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A121328

Included Lab Sample IDs: 2433084

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

Reference Method: EPA 8321B

Run ID: A121350

Included Lab Sample IDs: 2433090

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	87.8	91.0	P/P	50 - 150
2,4,5-T	85.7	79.1	P/P	50 - 150
Acetaminophen	102	107	P/P	60 - 160
Acetamiprid	125	128	P/P	50 - 150
Afidopyropen	104	112	P/P	50 - 150
Bentazon	142	138	P/P	50 - 160
Benzovindiflupyr	113	119	P/P	50 - 150
Carbamazepine	117	129	P/P	60 - 150
Clothianidin	113	120	P/P	60 - 150
Dinotefuran	108	113	P/P	50 - 150
Diuron	111	111	P/P	60 - 160
Fenuron	117	118	P/P	60 - 150
Fluridone	110	111	P/P	60 - 160
Hydrocodone	130	135	P/P	60 - 150
Ibuprofen	122	101	P/P	50 - 160
Imazapyr	93.0	89.2	P/P	50 - 150
Imidacloprid	104	104	P/P	60 - 150
Linuron	100	108	P/P	60 - 150
Mandestrobin	123	127	P/P	50 - 150
MCPP	85.3	90.3	P/P	50 - 150
Naproxen	111	63.4	P/P	50 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A121350
Included Lab Sample IDs: 2433090

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Primidone	108	105	P/P	60 - 150
Pyraclostrobin	120	124	P/P	60 - 150
Silvex	89.4	85.8	P/P	50 - 150
Thiamethoxam	125	122	P/P	50 - 150
Tolfenpyrad	105	106	P/P	60 - 150
Triclopyr	84.9	87.4	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A121374
Included Lab Sample IDs: 2433107

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	89.3		P	80 - 120
Alachlor	85.8		P	80 - 120
Ametryn	100		P	80 - 120
Atrazine	102		P	80 - 120
Atrazine Desethyl	98.3		P	80 - 120
Azinphos Methyl	96.2		P	80 - 120
Azoxystrobin	98.4		P	80 - 120
Bromacil	96.4		P	80 - 120
Butylate	104		P	80 - 120
Caffeine	96.0		P	80 - 120
Carbophenothion	100		P	80 - 120
Carfentrazone Ethyl	99.9		P	80 - 120
Chlorfenapyr	89.3		P	80 - 120
Chlorpyrifos Ethyl	89.5		P	80 - 120
Chlorpyrifos Methyl	97.9		P	80 - 120
Coumaphos	99.2		P	80 - 120
Cyanazine	102		P	80 - 120
Cyprodinil	90.7		P	80 - 120
Demeton	102		P	80 - 120
Diazinon	103		P	80 - 120
Difenoconazole	98.7		P	80 - 120
Dimethenamid	95.8		P	80 - 120
Dimethomorph	108		P	80 - 120
Disulfoton	102		P	80 - 120
Dithiopyr	107		P	80 - 120
EPTC	103		P	80 - 120
Ethion	88.7		P	80 - 120
Ethoprop	109		P	80 - 120
Etridiazole	101		P	80 - 120
Fenamiphos	99.1		P	80 - 120
Fenbuconazole	84.9		P	80 - 120
Fipronil	86.3		P	80 - 120
Fipronil Desulfinyl	100		P	80 - 120
Fipronil Sulfide	102		P	80 - 120
Fipronil Sulfone	95.9		P	80 - 120
Fluazifop-P-butyl	93.5		P	80 - 120
Fludioxonil	105		P	80 - 120
Flumioxazin	95.9		P	80 - 120
Flutolanil	97.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121374
Included Lab Sample IDs: 2433107

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluxapyroxad	96.1		P	80 - 120
Fonofos	100		P	80 - 120
Imazalil	99.2		P	80 - 120
Iprodione	80.7		P	80 - 120
Loratadine	89.3		P	80 - 120
Malathion	85.7		P	80 - 120
Metalaxyl	92.0		P	80 - 120
Metolachlor	102		P	80 - 120
Metribuzin	100		P	80 - 120
Mevinphos	90.3		P	80 - 120
Molinate	87.6		P	80 - 120
Myclobutanil	95.2		P	80 - 120
Naled	97.1		P	80 - 120
Napropamide	102		P	80 - 120
Norflurazon	102		P	80 - 120
Oxadiazon	102		P	80 - 120
Oxyfluorfen	87.5		P	80 - 120
Parathion Ethyl	96.3		P	80 - 120
Parathion Methyl	85.6		P	80 - 120
Pendimethalin	109		P	80 - 120
Phenytoin	98.3		P	80 - 120
Phorate	101		P	80 - 120
Prodiamine	97.1		P	80 - 120
Prometon	92.8		P	80 - 120
Prometryn	92.2		P	80 - 120
Pronamide	108		P	80 - 120
Propanil	90.5		P	80 - 120
Propargite	98.6		P	80 - 120
Propiconazole	84.1		P	80 - 120
Pyraflufen Ethyl	102		P	80 - 120
Pyridaben	99.8		P	80 - 120
Pyriproxyfen	103		P	80 - 120
Simazine	120		P	80 - 120
Stirophos	84.5		P	80 - 120
Sulfentrazone	98.2		P	80 - 120
Tebuconazole	102		P	80 - 120
Terbufos	92.2		P	80 - 120
Terbuthylazine	89.5		P	80 - 120
Thiobencarb	106		P	80 - 120
Triadimefon	95.0		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A121424
Included Lab Sample IDs: 2433085

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.5	105	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121437
Included Lab Sample IDs: 2433107

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A121510
Included Lab Sample IDs: 2433085

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.9	97.4	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: P121278
Included Lab Sample IDs: 2433090

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	131	136	P/P	60 - 160
Sucralose	128	129	P/P	60 - 160

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision SMP	MS
			LCS				
DEP SOP: NU-094-1	Color (true)	102				2.48	
EPA 180.1 Rev. 2.0	Turbidity	99.3				1.02	
EPA 200.7 Rev. 4.4	Calcium	102	101	98.9	98.3		1.70
	Iron	103	103	101	101		1.65
	Magnesium	104	103	102	99.9		1.60
	Potassium	101	101	101	95.8		0.0697
	Sodium	100	97.1	97.6	96.3		0.420
	Strontium	99.5	97.6	98.2	96.2		0.602
	Tin	107	102	106	105		3.83
	Titanium	99.8	98.7	100	98.9		1.64
	Vanadium	102	99.9	103	101		2.69
	Zinc	103	101	103	102		2.17
EPA 200.8 Rev. 5.4	Aluminum	103	104	103	103		0.267
	Antimony	102	103	103	105		0.150
	Arsenic	103	106	106	103		0.0081
	Barium	107	109	109	110		0.0584
	Beryllium	100	99.7	96.3	98.9		3.32
	Boron	104	103	103	104		0.535
	Cadmium	102	103	104	106		1.52
	Chromium	98.8	99.3	99.2	101		0.118
	Cobalt	100	102	102	99.6		0.164
	Copper	101	105	106	99.3		0.430
	Lead	98.3	99.9	101	99.3		0.663
	Manganese	99.1	100	99.9	102		0.191
	Molybdenum	101	102	102	102		0.599
	Nickel	101	103	104	99.8		1.30
	Selenium	103	104	107	106		2.31
	Silver	114	114	115	116		0.992
	Thallium	103	106	107	105		0.723
EPA 300.0 Rev. 2.1	Chloride	100	101	103		0.355	
	Sulfate	97.4	97.9	98.9			
EPA 350.1 Rev. 2.0	Ammonia-N	97.8	100	101			0.537
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104					
EPA 353.2 Rev. 2.0	NO2NO3-N	102	101				0.362
EPA 365.1 Rev. 2.0	Total-P	107	107	108			0.446
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.8	97.9	98.0			0.0526
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	52.1	64.5	75.5			15.8
	Acetochlor	79.1	81.1	80.5			0.758
	Alachlor	82.6	70.6	72.1			2.20
	Ametryn	119	140	128			8.67
	Atrazine	98.9	94.9	87.3			5.70
	Atrazine Desethyl	96.0	100	93.2			7.41
	Avobenzone	91.0	117	121			2.76
	Azinphos Methyl	147	135	134			0.581
	Azoxystrobin	114	114	102			11.3
	Bromacil	96.5	102	94.6			7.90
	Butylate	59.0	40.4	48.4			18.1
	Caffeine	180	134	113			15.4
	Carbophenothion	95.8	89.8	94.6			5.23
	Carfentrazone Ethyl	104	98.9	98.3			0.602
	Chlorfenapyr	91.7	73.4	74.6			1.61
	Chlorpyrifos Ethyl	78.1	76.7	72.4			5.80

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Chlorpyrifos Methyl	105	99.5	102		2.37
	Coumaphos	147	136	134		1.64
	Cyanazine	117	109	119		9.22
	Cyprodinil	87.0	77.8	68.7		12.5
	Dechlorane 602	53.7	55.7	71.7		25.1
	Dechlorane 603	69.5	82.5	93.2		12.2
	Dechlorane Plus	65.8	78.2	81.6		4.21
	Demeton	69.4	67.8	66.5		1.99
	Diazinon	92.3	95.3	84.4		12.1
	Difenoconazole	142	126	128		1.63
	Dimethenamid	87.0	90.6	88.4		2.43
	Dimethomorph	258	211	211		0.0575
	Disulfoton	95.0	93.5	98.6		5.28
	Dithiopyr	81.4	85.8	89.1		3.82
	EPTC	54.6	38.7	45.5		16.1
	Ethion	58.0	42.0	58.3		32.3
	Ethoprop	97.1	90.1	91.7		1.74
	Etridiazole	54.2	49.0	51.2		4.27
	Fenamiphos	95.7	78.6	74.5		5.37
	Fenbuconazole	107	80.8	76.6		5.31
	Fipronil	92.4	92.2	90.9		1.48
	Fipronil Desulfinyl	80.5	81.1	81.3		0.285
	Fipronil Sulfide	92.3	90.5	87.3		3.59
	Fipronil Sulfone	80.9	88.2	82.5		6.75
	Fluazifop-P-butyl	92.2	83.1	82.5		0.744
	Fludioxonil	91.5	89.3	87.7		1.78
	Flumioxazin	140	143	144		0.583
	Flutolanil	80.3	84.9	75.8		11.4
	Fluxapyroxad	81.7	74.4	83.1		11.0
	Fonofos	101	90.1	83.0		8.19
	Hexabromobenzene	53.6	58.9	70.3		17.6
	Hexazinone	94.0	89.8	90.3		0.596
	Imazalil	78.8	75.9	73.1		3.77
	Iprodione	96.0	74.7	73.6		1.49
	Loratadine	158	149	136		9.12
	Malathion	96.1	86.3	84.1		2.52
	Metalaxyl	76.3	87.8	83.0		5.57
	Metolachlor	111	92.1	95.5		3.33
	Metribuzin	103	100	105		3.98
	Mevinphos	94.7	89.2	82.2		8.26
	Molinate	59.6	48.4	52.3		7.83
	Myclobutanil	106	92.6	91.3		1.38
	Naled	52.3	39.6	40.2		1.51
	Napropamide	81.9	77.1	73.9		4.21
	Norflurazon	87.8	83.2	83.0		0.246
	Octinoxate	71.2	97.8	99.6		1.78
	Oxadiazon	80.4	76.6	74.9		2.26
	Oxybenzone	69.1	104	101		3.12
	Oxyfluorfen	105	93.6	99.4		6.04
	Parathion Ethyl	96.6	83.5	90.1		7.67
	Parathion Methyl	97.0	92.3	85.7		7.52
	PBB-153	59.1	61.9	76.9		21.6
	PBDE-47	53.7	69.5	81.6		16.0
	PBDE-99	52.9	59.8	71.7		18.0

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Pendimethalin	104	97.3	93.0		4.52
	Pentabromotoluene	55.6	80.3	83.2		3.57
	Phenytoin	40.4	55.0	73.9		29.2
	Phorate	95.4	87.1	96.2		10.0
	Prodiamine	48.0	35.4	31.8		10.7
	Prometon	95.7	94.8	88.8		6.55
	Prometryn	91.3	94.4	97.3		3.01
	Pronamide	101	100	105		5.12
	Propanil	117	120	116		3.64
	Propargite	74.8	73.9	80.5		8.62
	Propiconazole	93.7	71.8	75.9		5.57
	Pyraflufen Ethyl	98.0	84.1	85.9		2.22
	Pyridaben	120	94.4	105		5.99
	Pyriproxyfen	86.6	61.4	86.1		33.5
	Simazine	114	102	102		0.454
	Stiophos	56.4	45.1	51.0		12.2
	Sulfentrazone	78.8	111	111		0.178
	Tebuconazole	70.2	57.9	71.1		20.4
	Terbufos	97.3	103	102		0.307
	Terbutylazine	76.8	80.3	74.7		7.31
	Tetradecachloro-m-terphenyl	54.3	88.3	93.0		5.18
	Thiobencarb	92.1	89.2	84.6		5.30
	Tri-o-cresyl Phosphate	68.1	87.1	96.0		9.74
	Triadimefon	80.1	80.4	81.9		1.87
	Tris(1-chloro-2-propyl) phosphate (TCPP)	70.9	113	112		1.15
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	65.3	96.9	96.2		0.682
	Tris(2-chloroethyl) phosphate (TCEP)	71.8	91.5	94.3		3.02
EPA 8321B	2,4-D	71.2	108	107		1.44
	2,4,5-T	79.6	116	123		5.74
	Acesulfame K	117	122	126		3.26
	Acetaminophen	89.5	117	115		1.10
	Acetamiprid	106	30.9	52.2		51.2
	Afidopyropen	74.7	42.5	54.7		25.2
	AMPA	129	101	106		4.72
	Bentazon	111	61.3	61.5		0.269
	Benzovindiflupyr	96.1	97.0	93.2		3.92
	Carbamazepine	93.2	70.9	66.1		7.00
	Clothianidin	102	97.0	99.9		3.01
	Dinotefuran	96.4	70.8	69.2		2.31
	Diuron	84.8	56.8	57.4		1.18
	Endothall	92.7	90.8	93.2		2.60
	Fenuron	106	53.1	53.9		1.61
	Fluridone	89.6	69.7	66.4		4.83
	Glufosinate	96.1	87.8	82.4		6.29
	Glyphosate	71.8	68.9	66.1		4.11
	Hydrocodone	110	70.8	72.5		2.39
	Ibuprofen	78.7	79.8	71.2		11.3
	Imazapyr	77.2	69.2	68.8		0.579
	Imidacloprid	89.3	119	114		4.62
	Linuron	78.2	63.0	69.1		9.16
	Mandestrobin	105	103	96.6		5.94

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8321B	MCP	87.5	127	120			5.99
	Naproxen	55.3	88.4	84.3			4.80
	Primidone	94.4	80.5	81.8			1.61
	Pyraclostrobin	95.2	94.6	92.1			2.72
	Silvex	80.9	122	123			0.987
	Sucralose	123	125	123			1.79
	Thiamethoxam	104	86.9	86.1			0.908
	Tolfenpyrad	60.0	60.4	56.0			7.54
	Triclopyr	84.0	125	124			0.682
SM 2320 B-2011	Total Alkalinity	97.0				2.46	
SM 2540 C-2015	TDS	94.4				1.44	
SM 2540 D-2015	TSS	93.9					
SM 4500-F- C-2011	Fluoride	97.7	99.0	97.8			1.03
SM 5310 B-2011	Organic Carbon	94.2	96.6	95.0			0.946

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2433084
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2433084
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2433091
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2433091
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2433084
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2433084
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2433085
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2433085
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2433085
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2433085
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2433086
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2433107
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2433107
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2433090
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2433084
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2433091
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2433084
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2433084
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2433084
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2433085

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	08/23/2023			08/23/2023 15:55	Alexis Price	2433084
EPA 180.1 Rev. 2.0	08/23/2023			08/23/2023 14:03	Alexis Price	2433084
EPA 200.7 Rev. 4.4	08/23/2023	08/25/2023 13:05	George D Taylor	08/28/2023 15:27	McKinley C Carter	2433091
EPA 200.8 Rev. 5.4	08/23/2023	08/25/2023 13:05	George D Taylor	08/28/2023 16:36	Emily M Philpot	2433091
EPA 300.0 Rev. 2.1	08/23/2023			08/25/2023 02:20	James L Waggeberby	2433084
EPA 350.1 Rev. 2.0	08/23/2023			08/28/2023 13:41	Ping Hua	2433085
EPA 351.2 Rev. 2.0	08/23/2023	09/12/2023 13:48	Simonne.V. Calhoun	09/13/2023 14:51	Samantha L Bates	2433085
EPA 353.2 Rev. 2.0	08/23/2023			09/07/2023 13:59	Anna M. Plaviak	2433085
EPA 365.1 Rev. 2.0	08/23/2023	08/25/2023 14:35	Adam P Silver	08/28/2023 13:24	Chandler E Cox	2433085
EPA 365.1 Rev. 2.0 dissolved	08/23/2023			08/23/2023 14:30	Elise M. Gillis	2433086
EPA 8270E	08/23/2023	08/23/2023 14:00	Rasheda Ghaffari	08/25/2023 19:24	Vandana T. Nagar	2433107
	08/23/2023	08/23/2023 14:00	Rasheda Ghaffari	08/28/2023 22:33	Arthur Maknenko	2433107
	08/23/2023	08/23/2023 14:00	Rasheda Ghaffari	08/29/2023 18:26	Vandana T. Nagar	2433107
EPA 8321B	08/23/2023	08/25/2023 06:00	Hana Lee	08/25/2023 10:28	Tae K Lee	2433090
	08/23/2023	08/25/2023 06:00	Hana Lee	08/25/2023 21:07	Tae K Lee	2433090
	08/23/2023	08/29/2023 09:00	Hoor Shaik	09/02/2023 10:09	Juyoung Kim	2433090
SM 2320 B-2011	08/23/2023			08/30/2023 01:12	Dale L. Simmons	2433084
SM 2340 B-2011	08/23/2023			08/28/2023 15:27	McKinley C Carter	2433091
SM 2540 C-2015	08/23/2023			08/25/2023 15:21	Yijie Li	2433084
SM 2540 D-2015	08/23/2023			08/25/2023 15:21	Yijie Li	2433084
SM 4500-F- C-2011	08/23/2023			08/30/2023 01:12	Dale L. Simmons	2433084
SM 5310 B-2011	08/23/2023			08/28/2023 15:45	Elise M. Gillis	2433085