

Chemical Analysis Report

CEN-DIST-2023-07-25-02

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

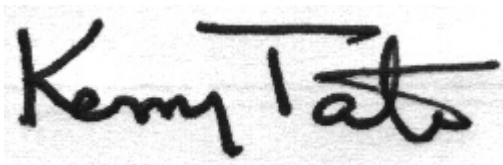
Event Description: **Lake Alma and Wildmere Lake LVIs**
Request ID: **RQ-2023-07-10-14**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Matthew Bearden

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

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

Date Certified: 14-AUG-2023 07:55

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: LAKE ALMA NW OF CENTER

Collection Date/Time: 07/24/2023 12:04

Field ID: G2CE0237

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2426422	DEP SOP: NU-094-1	Color (true)	130		PCU	P432973	
	EPA 180.1 Rev. 2.0	Turbidity	4.4		NTU	P433001	
	EPA 300.0 Rev. 2.1	Chloride	13		mg Cl/L	P433129	
		Sulfate	0.20	U	mg SO4/L	P433131	
	SM 2320 B-2011	Total Alkalinity	23		mg CaCO3/L	P433201	
	SM 2540 C-2015	TDS	80		mg/L	P433342	
	SM 2540 D-2015	TSS	8	I	mg/L	P433235	
	SM 4500-F- C-2011	Fluoride	0.037	I	mg F/L	P433204	
2426423	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P433284	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.6		mg N/L	P433269	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P433021	
	EPA 365.1 Rev. 2.0	Total-P	0.085		mg P/L	P433149	
	SM 5310 B-2011	Organic Carbon	22		mg C/L	P433257	
2426424	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.005	I	mg P/L	P432978	
2426435	EPA 8321B	2,4-D	0.0020	U	ug/L	P432883	
		Acesulfame K	0.10	U	ug/L	P432932	
		2,4,5-T	0.0040	U	ug/L	P432883	
		AMPA	0.46		ug/L	P432932	
		Acetaminophen	0.0080	U	ug/L	P432883	
		Acetamiprid	0.0020	U	ug/L	P432883	
		Endothall	0.25	U	ug/L	P432932	
		Glufosinate	0.10	U	ug/L	P432932	
		Glyphosate	3.4		ug/L	P432932	
		Afidopyropen	0.0020	U	ug/L	P432883	
		Bentazon	0.0036		ug/L	P432883	
		Sucralose	0.071		ug/L	P432932	
		Benzovindiflupyr	0.0020	U	ug/L	P432883	
		Carbamazepine	8.0E-04	U	ug/L	P432883	
		Clothianidin	0.0020	U	ug/L	P432883	
		Dinotefuran	0.0020	U	ug/L	P432883	
		Diuron	0.0020	U	ug/L	P432883	
		Fenuron	0.032	U	ug/L	P432883	
		Fluridone	0.15		ug/L	P432883	
		Imazapyr	0.0040	U	ug/L	P432883	
		Hydrocodone	0.0020	U	ug/L	P432883	
		Ibuprofen	0.080	U	ug/L	P432883	
		Imidacloprid	0.0048	I	ug/L	P432883	
		Linuron	0.0040	U	ug/L	P432883	
		Mandestrobin	0.0020	U	ug/L	P432883	
		MCPP	0.0020	U	ug/L	P432883	
		Naproxen	0.0080	U	ug/L	P432883	
		Primidone	0.0040	U	ug/L	P432883	
		Pyraclostrobin	0.0020	U	ug/L	P432883	

MS

Field ID: G2CE0237

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2426435	EPA 8321B	Silvex	0.0040	U	ug/L	P432883	
		Thiamethoxam	0.0020	U	ug/L	P432883	
		Tolfenpyrad	0.0020	U	ug/L	P432883	
		Triclopyr	0.0040	U	ug/L	P432883	
2426436	EPA 200.7 Rev. 4.4	Calcium	8.85		mg/L	P433098	
		Iron	240		ug/L	P433098	
		Magnesium	2.08		mg/L	P433098	
		Potassium	3.1		mg/L	P433098	
		Sodium	7.5		mg/L	P433098	
		Strontium	19.4		ug/L	P433098	
		Tin	3.0	U	ug/L	P433098	
		Titanium	0.75	U	ug/L	P433098	
		Vanadium	2.0	U	ug/L	P433098	
		Zinc	5.0	U	ug/L	P433098	
	EPA 200.8 Rev. 5.4	Aluminum	32		ug/L	P433098	
		Antimony	0.050	U	ug/L	P433098	MS
		Arsenic	1.93		ug/L	P433098	
		Barium	6.63		ug/L	P433098	
		Beryllium	0.010	U	ug/L	P433098	
		Boron	25.5		ug/L	P433098	
		Cadmium	0.020	U	ug/L	P433098	
		Chromium	0.65	I	ug/L	P433098	
		Cobalt	0.039	I	ug/L	P433098	
		Copper	5.99		ug/L	P433098	
		Lead	0.20	U	ug/L	P433098	
		Manganese	52.3		ug/L	P433098	
		Molybdenum	0.15	U	ug/L	P433098	
		Nickel	0.50	U	ug/L	P433098	
		Selenium	0.20	U	ug/L	P433098	
		Silver	0.010	U	ug/L	P433098	
		Thallium	0.10	U	ug/L	P433098	
	SM 2340 B-2011	Hardness	30.7		mg/L	P433098	
2426449	EPA 8270E	Oxybenzone**	11	U	ng/L	P432954	
		Acetochlor	0.21	U	ng/L	P432954	
		Octinoxate**	160	U	ng/L	P432954	
		Alachlor	0.43	U	ng/L	P432954	
		Avobenzone**	110	U	ng/L	P432954	
		Ametryn	1.2	U	ng/L	P432954	
		Atrazine	1.7		ng/L	P432954	
		PBDE-47**	4.3	U	ng/L	P432954	
		Atrazine Desethyl	1.4	U	ng/L	P432954	
		PBDE-99**	5.3	U	ng/L	P432954	
		Azinphos Methyl	3.2	U	ng/L	P432954	
		Tri-o-cresyl Phosphate**	6.4	U	ng/L	P432954	
		Azoxystrobin	0.43	U	ng/L	P432954	

Field ID: G2CE0237

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2426449	EPA 8270E	Bromacil	0.64	U	ng/L	P432954	
		2-Ethylhexyl	13	U	ng/L	P432954	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.21	U	ng/L	P432954	
		Dechlorane Plus**	32	U	ng/L	P432954	
		Caffeine**	8.0	U	ng/L	P432954	
		Dechlorane 602**	5.3	UJ	ng/L	P432954	LCS, MS
		Carbophenothion	0.53	U	ng/L	P432954	
		Dechlorane 603**	4.3	U	ng/L	P432954	
		Carfentrazone Ethyl	0.16	U	ng/L	P432954	
		Hexabromobenzene**	6.4	U	ng/L	P432954	
		Chlorfenapyr	0.32	U	ng/L	P432954	
		PBB-153**	8.5	U	ng/L	P432954	
		Chlorpyrifos Ethyl	0.32	U	ng/L	P432954	
		Pentabromotoluene**	3.2	U	ng/L	P432954	
		Chlorpyrifos Methyl	0.11	U	ng/L	P432954	
		Tris(2-chloroethyl) phosphate (TCEP)**	74	U	ng/L	P432954	
		Coumaphos	1.1	U	ng/L	P432954	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	49		ng/L	P432954	
		Cyanazine	5.3	U	ng/L	P432954	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.7	U	ng/L	P432954	
		Cyprodinil	0.21	U	ng/L	P432954	
		Tetradecachloro-m-terphenyl**	8.0	U	ng/L	P432954	
		Demeton	3.7	U	ng/L	P432954	
		Diazinon	0.13	U	ng/L	P432954	
		Difenoconazole	0.64	UJ	ng/L	P432954	LCS
		Dimethenamid	0.11	U	ng/L	P432954	
		Dimethomorph	0.32	U	ng/L	P432954	MS
		Disulfoton	0.64	U	ng/L	P432954	
		Dithiopyr	1.1	U	ng/L	P432954	
		EPTC	0.53	U	ng/L	P432954	
		Ethion	0.32	U	ng/L	P432954	
		Ethoprop	0.13	U	ng/L	P432954	
		Etridiazole	0.11	U	ng/L	P432954	RPD
		Fenamiphos	0.48	U	ng/L	P432954	
		Fenbuconazole	0.53	UJ	ng/L	P432954	LCS
		Fipronil	0.21	U	ng/L	P432954	
		Fipronil Desulfinyl**	1.0		ng/L	P432954	
		Fipronil Sulfide	0.86		ng/L	P432954	
		Fipronil Sulfone	2.7		ng/L	P432954	
		Fluazifop-P-butyl	0.11	U	ng/L	P432954	
		Fludioxonil	0.11	U	ng/L	P432954	
		Flumioxazin	940	J	ng/L	P432954	LCS
		Flutolanil	0.11	U	ng/L	P432954	
		Fluxapyroxad	0.27	U	ng/L	P432954	

Field ID: G2CE0237

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2426449	EPA 8270E	Fonofos	0.16	U	ng/L	P432954	
		Hexazinone	0.53	U	ng/L	P432954	
		Imazalil	0.69	U	ng/L	P432954	
		Iprodione	0.53	UJ	ng/L	P432954	CCV
		Loratadine**	0.32	U	ng/L	P432954	MS
		Malathion	0.37	U	ng/L	P432954	
		Metalaxyl	0.53	U	ng/L	P432954	
		Metolachlor	0.80	U	ng/L	P432954	
		Metribuzin	0.43	U	ng/L	P432954	
		Mevinphos	1.1	U	ng/L	P432954	
		Molinate	0.27	U	ng/L	P432954	
		Myclobutanil	0.37	U	ng/L	P432954	
		Naled	2.7	U	ng/L	P432954	
		Napropamide	0.74	U	ng/L	P432954	
		Norflurazon	1.1	U	ng/L	P432954	
		Oxadiazon	0.37	U	ng/L	P432954	
		Oxyfluorfen	0.21	U	ng/L	P432954	
		Parathion Ethyl	0.16	U	ng/L	P432954	
		Parathion Methyl	0.21	U	ng/L	P432954	
		Pendimethalin	0.80	U	ng/L	P432954	
		Phenytion**	5.6	U	ng/L	P432954	
		Phorate	0.27	U	ng/L	P432954	
		Prodiamine	0.21	U	ng/L	P432954	
		Prometon	3.2	U	ng/L	P432954	
		Prometryn	0.37	U	ng/L	P432954	
		Pronamide	0.11	U	ng/L	P432954	
		Propanil	0.11	U	ng/L	P432954	
		Propargite	0.85	U	ng/L	P432954	
		Propiconazole	0.64	U	ng/L	P432954	
		Pyraflufen Ethyl	0.32	U	ng/L	P432954	
		Pyridaben	1.5	U	ng/L	P432954	
		Pyriproxyfen	0.27	UJ	ng/L	P432954	LCS
		Simazine	0.27	U	ng/L	P432954	
		Stirophos	0.43	U	ng/L	P432954	
		Sulfentrazone	1.5	U	ng/L	P432954	
		Tebuconazole	1.5	U	ng/L	P432954	
		Terbufos	0.21	U	ng/L	P432954	
		Terbuthylazine	0.21	U	ng/L	P432954	
		Thiobencarb	0.53	U	ng/L	P432954	
		Triadimefon	0.16	U	ng/L	P432954	

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
Ref. Method and Comment:							
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 are unavailable because of high analyte concentration in the QC sample.						
EPA 200.7 Rev. 4.4:	Batch matrix spike recoveries for potassium, sodium, titanium and vanadium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.						
EPA 200.8 Rev. 5.4:	Batch matrix spike recoveries for many elements are unavailable for one of two spiked samples because of high analyte concentration in the QC sample. The copper result was confirmed in the undigested sample on 07/31/2023.						
EPA 8270E:	Refer to the Lab Analysis Report for an explanation of QC Codes.						
EPA 8270E:	MS accuracy for atrazine 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: P432973

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P433001

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P433098

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: P433098

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: P433129

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: P433131

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P433284

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P433269

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P433021

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P433149

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P432978

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

Reference Method: EPA 8270E
Batch ID: P432954

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: P432954

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: P432954

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: P432954

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: P432954

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: P432883

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P432883

Component	Result	Code	Units
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P432932

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

Reference Method: SM 2320 B-2011
Batch ID: P433201

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

Reference Method: SM 2540 C-2015
Batch ID: P433342

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P433235

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P433204

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P433257

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: P432973

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.3		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P433001

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: P433098

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Iron	105		P	85 - 115
Magnesium	105		P	85 - 115
Potassium	100		P	85 - 115
Sodium	105		P	85 - 115
Strontium	95.5		P	85 - 115
Tin	99.5		P	85 - 115
Titanium	97.1		P	85 - 115
Vanadium	97.8		P	85 - 115
Zinc	98.4		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P433098

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	101		P	85 - 115
Antimony	101		P	85 - 115
Arsenic	99.4		P	85 - 115
Barium	102		P	85 - 115
Beryllium	94.7		P	85 - 115
Boron	109		P	85 - 115
Cadmium	99.1		P	85 - 115
Chromium	95.9		P	85 - 115
Cobalt	95.4		P	85 - 115
Copper	98.8		P	85 - 115
Lead	101		P	85 - 115
Manganese	98.7		P	85 - 115
Molybdenum	97.2		P	85 - 115
Nickel	96.4		P	85 - 115
Selenium	98.1		P	85 - 115
Silver	107		P	85 - 115
Thallium	98.3		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433129

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433131

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P433284

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.2		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P433269

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	96.3		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P433021

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P433149

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P432978

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

Reference Method: EPA 8270E
Batch ID: P432954

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	62.1		P	42 - 162
Acetochlor	90.0		P	69 - 123
Alachlor	78.9		P	65 - 118
Ametryn	113		P	58 - 141
Atrazine	92.5		P	73 - 118
Atrazine Desethyl	83.1		P	32 - 125
Avobenzone	113		P	40 - 203
Azinphos Methyl	70.4		P	36 - 197
Azoxystrobin	86.3		P	58 - 226
Bromacil	91.8		P	48 - 120
Butylate	71.4		P	27 - 85.0
Caffeine	93.3		P	40 - 137
Carbophenothion	99.3		P	54 - 132
Carfentrazone Ethyl	104		P	60 - 142
Chlorfenapyr	81.5		P	53 - 117
Chlorpyrifos Ethyl	100		P	59 - 116

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P432954

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	95.6		P	66 - 119
Coumaphos	95.3		P	11 - 234
Cyanazine	154		P	61 - 248
Cyprodinil	106		P	50 - 147
Dechlorane 602	28.0		F	50 - 150
Dechlorane 603	86.9		P	50 - 150
Dechlorane Plus	65.3		P	47 - 182
Demeton	104		P	30 - 138
Diazinon	109		P	67 - 126
Difenoconazole	34.2		F	38 - 205
Dimethenamid	79.8		P	57 - 111
Dimethomorph	138		P	16 - 212
Disulfoton	103		P	46 - 126
Dithiopyr	97.3		P	62 - 115
EPTC	70.3		P	28 - 80.0
Ethion	34.6		P	24 - 122
Ethoprop	105		P	62 - 113
Etridiazole	81.7		P	28 - 92.0
Fenamiphos	105		P	57 - 128
Fenbuconazole	44.8		F	52 - 155
Fipronil	106		P	63 - 130
Fipronil Desulfinyl	98.3		P	61 - 130
Fipronil Sulfide	97.8		P	56 - 117
Fipronil Sulfone	93.2		P	52 - 118
Fluazifop-P-butyl	87.1		P	61 - 128
Fludioxonil	69.3		P	59 - 129
Flumioxazin	18.1		F	30 - 250
Flutolanil	81.7		P	53 - 127
Fluxapyroxad	53.8		P	42 - 132
Fonofos	92.7		P	61 - 110
Hexabromobenzene	88.3		P	50 - 150
Hexazinone	85.4		P	46 - 139
Imazalil	96.4		P	40 - 139
Iprodione	62.8		P	40 - 146
Loratadine	128		P	10 - 224
Malathion	85.9		P	61 - 135
Metaxyl	103		P	58 - 121
Metolachlor	84.4		P	64 - 118
Metribuzin	99.9		P	45 - 245
Mevinphos	115		P	49 - 118
Molinate	61.5		P	42 - 92.0
Myclobutanil	89.4		P	55 - 127
Naled	43.9		P	10 - 114
Napropamide	65.6		P	39 - 121
Norflurazon	98.6		P	55 - 129
Octinoxate	101		P	26 - 166
Oxadiazon	80.9		P	54 - 115
Oxybenzone	110		P	49 - 135
Oxyfluorfen	91.4		P	64 - 139
Parathion Ethyl	109		P	70 - 111
Parathion Methyl	116		P	76 - 136
PBB-153	61.9		P	50 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P432954

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBDE-47	52.7		P	41 - 148
PBDE-99	41.1		P	38 - 147
Pendimethalin	118		P	52 - 118
Pentabromotoluene	86.1		P	50 - 150
Phenytoin	24.0		P	10 - 162
Phorate	99.9		P	40 - 122
Prodiamine	48.5		P	26 - 141
Prometon	110		P	54 - 122
Prometryn	127		P	61 - 128
Pronamide	108		P	72 - 121
Propanil	86.9		P	45 - 144
Propargite	34.7		P	10 - 199
Propiconazole	66.5		P	56 - 127
Pyraflufen Ethyl	95.4		P	56 - 140
Pyridaben	88.7		P	26 - 211
Pyriproxyfen	32.5		F	33 - 194
Simazine	74.5		P	67 - 121
Stirophos	26.7		P	20 - 142
Sulfentrazone	68.9		P	21 - 144
Tebuconazole	34.3		P	10 - 122
Terbufos	111		P	60 - 129
Terbutylazine	86.3		P	69 - 113
Tetradecachloro-m-terphenyl	172		P	70 - 200
Thiobencarb	83.0		P	51 - 120
Tri-o-cresyl Phosphate	101		P	49 - 150
Triadimefon	79.3		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	105		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	84.5		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	103		P	70 - 180

Reference Method: EPA 8321B

Batch ID: P432883

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	81.8		P	40 - 150
2,4,5-T	70.3		P	40 - 150
Acetaminophen	79.0		P	30 - 150
Acetamiprid	79.5		P	40 - 150
Afidopyropen	57.9		P	30 - 150
Bentazon	126		P	30 - 150
Benzovindiflupyr	78.2		P	40 - 150
Carbamazepine	69.8		P	40 - 150
Clothianidin	88.8		P	40 - 150
Dinotefuran	88.5		P	40 - 150
Diuron	44.0		P	40 - 150
Fenuron	96.2		P	40 - 150
Fluridone	98.8		P	40 - 150
Hydrocodone	80.8		P	40 - 150
Ibuprofen	72.5		P	40 - 150
Imazapyr	79.8		P	40 - 150
Imidacloprid	73.2		P	40 - 150
Linuron	52.1		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P432883

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Mandestrobin	81.4		P	40 - 150
MCPD	86.2		P	40 - 150
Naproxen	69.0		P	40 - 150
Primidone	68.7		P	40 - 150
Pyraclostrobin	74.0		P	40 - 150
Silvex	87.9		P	40 - 150
Thiamethoxam	98.3		P	40 - 150
Tolfenpyrad	56.8		P	30 - 150
Triclopyr	70.8		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P432932

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	94.9		P	40 - 150
AMPA	57.2		P	40 - 150
Endothall	91.1		P	40 - 150
Glufosinate	104		P	40 - 150
Glyphosate	110		P	40 - 150
Sucralose	96.0		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P433201

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.0		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P433342

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

Reference Method: SM 2540 D-2015
Batch ID: P433235

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	95.8		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P433204

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.1		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P433257

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P433098

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426108	Calcium	105		P	75 - 125
2426108	Iron	101		P	75 - 125
2426108	Magnesium	104		P	75 - 125
2426108	Strontium	95.6		P	75 - 125
2426108	Tin	75.7		P	75 - 125
2426108	Zinc	99.2		P	75 - 125
2426541	Calcium	105	104	P/P	80 - 120
2426541	Iron	103	103	P/P	80 - 120
2426541	Magnesium	102	103	P/P	80 - 120
2426541	Potassium	103	103	P/P	80 - 120
2426541	Sodium	104	103	P/P	80 - 120
2426541	Strontium	94.5	94.8	P/P	80 - 120
2426541	Tin	95.8	95.7	P/P	80 - 120
2426541	Titanium	97.2	98.9	P/P	80 - 120
2426541	Vanadium	97.3	98.5	P/P	80 - 120
2426541	Zinc	99.0	98.6	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P433098

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426108	Antimony	74.6		F	80 - 120
2426108	Arsenic	99.6		P	75 - 125
2426108	Cadmium	87.1		P	75 - 125
2426108	Cobalt	79.0		P	75 - 125
2426108	Selenium	91.0		P	75 - 125
2426108	Silver	89.0		P	75 - 125
2426108	Thallium	107		P	80 - 120
2426541	Aluminum	101	101	P/P	80 - 120
2426541	Antimony	100	99.8	P/P	80 - 120
2426541	Arsenic	99.6	97.7	P/P	80 - 120
2426541	Barium	103	102	P/P	80 - 120
2426541	Beryllium	97.2	95.1	P/P	80 - 120
2426541	Boron	104	105	P/P	80 - 120
2426541	Cadmium	101	98.9	P/P	80 - 120
2426541	Chromium	96.7	95.2	P/P	80 - 120
2426541	Cobalt	96.8	95.3	P/P	80 - 120
2426541	Copper	101	100	P/P	80 - 120
2426541	Lead	102	101	P/P	80 - 120
2426541	Manganese	99.9	97.3	P/P	80 - 120
2426541	Molybdenum	98.4	97.3	P/P	80 - 120
2426541	Nickel	97.1	94.5	P/P	80 - 120
2426541	Selenium	98.6	99.2	P/P	80 - 120
2426541	Silver	105	105	P/P	80 - 120
2426541	Thallium	102	102	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P433129

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426217	Chloride	101		P	90 - 110
2426377	Chloride	104		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P433131

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426217	Sulfate	100		P	90 - 110
2426377	Sulfate	95.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P433284

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426423	Ammonia-N	95.2	99.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P433021

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426287	NO2NO3-N	97.4	96.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P433149

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426378	Total-P	105	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P432978

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426226	O-Phosphate-P	99.5	99.7	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P432954

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426850	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	82.8	90.9	P/P	26 - 165
2426850	Acetochlor	94.8	85.0	P/P	67 - 124
2426850	Alachlor	77.9	68.5	P/P	60 - 120
2426850	Ametryn	132	112	P/P	54 - 216
2426850	Atrazine Desethyl	95.7	74.4	P/P	15 - 122
2426850	Avobenzene	109	98.1	P/P	37 - 178
2426850	Azinphos Methyl	103	109	P/P	40 - 292
2426850	Azoxystrobin	95.2	110	P/P	35 - 220
2426850	Bromacil	104	85.8	P/P	45 - 127
2426850	Butylate	66.8	61.3	P/P	20 - 83.0
2426850	Caffeine	101	104	P/P	10 - 194
2426850	Carbophenothion	102	106	P/P	57 - 127
2426850	Carfentrazone Ethyl	115	110	P/P	51 - 141
2426850	Chlorfenapyr	86.9	85.9	P/P	46 - 111
2426850	Chlorpyrifos Ethyl	99.8	84.6	P/P	52 - 120
2426850	Chlorpyrifos Methyl	107	103	P/P	63 - 119
2426850	Coumaphos	131	151	P/P	10 - 228
2426850	Cyanazine	155	130	P/P	59 - 241
2426850	Cyprodinil	108	101	P/P	47 - 146
2426850	Dechlorane 602	37.2	39.4	F/F	50 - 150
2426850	Dechlorane 603	77.9	74.0	P/P	50 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P432954

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426850	Dechlorane Plus	60.8	63.5	P/P	50 - 150
2426850	Demeton	101	98.9	P/P	40 - 136
2426850	Diazinon	119	114	P/P	69 - 132
2426850	Difenoconazole	96.1	117	P/P	57 - 258
2426850	Dimethenamid	86.3	89.8	P/P	54 - 110
2426850	Dimethomorph	270	296	F/F	28 - 210
2426850	Disulfoton	103	98.5	P/P	43 - 133
2426850	Dithiopyr	46.0	50.8	P/P	39 - 116
2426850	EPTC	63.3	51.2	P/P	20 - 78.0
2426850	Ethion	47.3	54.7	P/P	17 - 119
2426850	Ethoprop	107	101	P/P	66 - 120
2426850	Etridiazole	85.4	58.4	P/P	28 - 96.0
2426850	Fenamiphos	104	96.8	P/P	41 - 126
2426850	Fenbuconazole	90.5	98.0	P/P	42 - 169
2426850	Fipronil	105	88.2	P/P	61 - 132
2426850	Fipronil Desulfinyl	112	90.2	P/P	56 - 132
2426850	Fipronil Sulfide	106	95.3	P/P	48 - 119
2426850	Fipronil Sulfone	88.1	84.2	P/P	42 - 131
2426850	Fluazifop-P-butyl	113	97.5	P/P	53 - 131
2426850	Fludioxonil	77.2	76.1	P/P	56 - 127
2426850	Flumioxazin	55.3	87.0	P/P	19 - 300
2426850	Flutolanil	54.5	57.4	P/P	41 - 127
2426850	Fluxapyroxad	72.9	86.4	P/P	42 - 172
2426850	Fonofos	99.7	95.9	P/P	59 - 113
2426850	Hexabromobenzene	111	112	P/P	50 - 150
2426850	Hexazinone	102	102	P/P	66 - 122
2426850	Imazalil	83.4	91.9	P/P	21 - 283
2426850	Iprodione	76.7	69.2	P/P	43 - 150
2426850	Loratadine	199	205	P/F	23 - 201
2426850	Malathion	85.2	79.8	P/P	58 - 136
2426850	Metalaxyl	100	101	P/P	55 - 120
2426850	Metolachlor	88.3	90.9	P/P	57 - 121
2426850	Metribuzin	95.8	98.8	P/P	58 - 294
2426850	Mevinphos	109	104	P/P	50 - 126
2426850	Molinate	66.0	56.9	P/P	42 - 93.0
2426850	Myclobutanil	92.6	87.6	P/P	55 - 125
2426850	Naled	49.1	58.0	P/P	18 - 200
2426850	Napropamide	73.1	72.7	P/P	39 - 110
2426850	Norflurazon	109	97.3	P/P	48 - 128
2426850	Octinoxate	114	104	P/P	21 - 159
2426850	Oxadiazon	75.5	73.6	P/P	43 - 112
2426850	Oxybenzone	127	130	P/P	41 - 142
2426850	Oxyfluorfen	95.6	96.1	P/P	64 - 153
2426850	Parathion Ethyl	92.3	85.2	P/P	69 - 114
2426850	Parathion Methyl	127	123	P/P	79 - 139
2426850	PBB-153	103	112	P/P	50 - 150
2426850	PBDE-47	82.9	83.1	P/P	27 - 144
2426850	PBDE-99	78.8	83.3	P/P	18 - 150
2426850	Pendimethalin	118	105	P/P	50 - 139
2426850	Pentabromotoluene	98.1	92.0	P/P	50 - 150
2426850	Phenytoin	23.6	23.3	P/P	10 - 146
2426850	Phorate	110	110	P/P	54 - 161

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P432954

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426850	Prodiamine	65.1	64.9	P/P	30 - 161
2426850	Prometon	85.4	89.6	P/P	45 - 134
2426850	Prometryn	54.5	54.1	P/P	45 - 137
2426850	Pronamide	107	96.8	P/P	65 - 133
2426850	Propanil	91.0	83.7	P/P	49 - 142
2426850	Propargite	48.3	46.7	P/P	10 - 203
2426850	Propiconazole	76.9	79.2	P/P	38 - 146
2426850	Pyraflufen Ethyl	109	106	P/P	34 - 153
2426850	Pyridaben	131	129	P/P	12 - 192
2426850	Pyriproxyfen	77.1	78.1	P/P	33 - 180
2426850	Simazine	73.2	70.6	P/P	51 - 157
2426850	Stiropfos	18.2	19.2	P/P	10 - 128
2426850	Sulfentrazone	91.3	87.4	P/P	53 - 186
2426850	Tebuconazole	51.3	52.5	P/P	10 - 133
2426850	Terbufos	116	101	P/P	65 - 139
2426850	Terbutylazine	92.7	79.5	P/P	66 - 117
2426850	Tetradecachloro-m-terphenyl	91.6	77.9	P/P	70 - 200
2426850	Thiobencarb	80.4	71.4	P/P	51 - 119
2426850	Tri-o-cresyl Phosphate	112	106	P/P	31 - 144
2426850	Triadimefon	90.6	77.3	P/P	48 - 119
2426850	Tris(1-chloro-2-propyl) phosphate (TCPP)	85.9	86.7	P/P	50 - 150
2426850	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	106	83.0	P/P	50 - 150
2426850	Tris(2-chloroethyl) phosphate (TCEP)	111	102	P/P	70 - 180

Reference Method: EPA 8321B

Batch ID: P432883

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2425633	2,4-D	113	118	P/P	40 - 150
2425633	2,4,5-T	109	104	P/P	40 - 150
2425633	Acetaminophen	99.4	98.4	P/P	30 - 150
2425633	Acetamiprid	60.0	61.8	P/P	40 - 150
2425633	Afidopyropen	66.9	73.3	P/P	30 - 150
2425633	Bentazon	119	117	P/P	30 - 150
2425633	Benzovindiflupyr	80.7	79.7	P/P	40 - 150
2425633	Carbamazepine	50.0	55.9	P/P	40 - 150
2425633	Clothianidin	87.2	84.9	P/P	40 - 150
2425633	Dinotefuran	67.5	82.3	P/P	40 - 150
2425633	Diuron	31.6	34.4	F/F	40 - 150
2425633	Fenuron	61.1	64.6	P/P	40 - 150
2425633	Fluridone	87.9	90.3	P/P	40 - 150
2425633	Hydrocodone	60.2	62.3	P/P	40 - 150
2425633	Ibuprofen	66.2	69.8	P/P	40 - 150
2425633	Imazapyr	95.7	98.5	P/P	40 - 150
2425633	Imidacloprid	115	120	P/P	40 - 150
2425633	Linuron	52.8	50.5	P/P	40 - 150
2425633	Mandestrobin	80.0	85.3	P/P	40 - 150
2425633	MCPP	124	123	P/P	40 - 150
2425633	Naproxen	128	128	P/P	40 - 150
2425633	Primidone	78.0	75.2	P/P	40 - 150
2425633	Pyraclostrobin	77.3	76.6	P/P	40 - 150
2425633	Silvex	116	114	P/P	40 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P432883

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2425633	Thiamethoxam	76.5	76.7	P/P	40 - 150
2425633	Tolfenpyrad	57.7	56.4	P/P	30 - 150
2425633	Triclopyr	102	103	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P432932

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426070	Acesulfame K	109	118	P/P	40 - 150
2426070	AMPA	61.9	66.9	P/P	40 - 150
2426070	Endothall	128	127	P/P	40 - 150
2426070	Glufosinate	82.2	77.1	P/P	40 - 150
2426070	Glyphosate	116	111	P/P	40 - 150
2426070	Sucralose	104	94.5	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P433204

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426550	Fluoride	98.2	98.8	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P433257

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426218	Organic Carbon	97.2	97.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P432973

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426286	Color (true)	9.33	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P433001

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426286	Turbidity	5.98	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P433098

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426541	Calcium	0.865	Spike	P	0 - 20
2426541	Iron	0.196	Spike	P	0 - 20
2426541	Magnesium	0.572	Spike	P	0 - 20
2426541	Potassium	0.0730	Spike	P	0 - 20
2426541	Sodium	0.387	Spike	P	0 - 20
2426541	Strontium	0.305	Spike	P	0 - 20
2426541	Tin	0.111	Spike	P	0 - 20
2426541	Titanium	1.79	Spike	P	0 - 20
2426541	Vanadium	1.19	Spike	P	0 - 20
2426541	Zinc	0.435	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P433098

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426541	Aluminum	0.257	Spike	P	0 - 20
2426541	Antimony	0.411	Spike	P	0 - 20
2426541	Arsenic	1.93	Spike	P	0 - 20
2426541	Barium	0.884	Spike	P	0 - 20
2426541	Beryllium	2.17	Spike	P	0 - 20
2426541	Boron	1.58	Spike	P	0 - 20
2426541	Cadmium	1.69	Spike	P	0 - 20
2426541	Chromium	1.53	Spike	P	0 - 20
2426541	Cobalt	1.52	Spike	P	0 - 20
2426541	Copper	0.734	Spike	P	0 - 20
2426541	Lead	1.03	Spike	P	0 - 20
2426541	Manganese	2.18	Spike	P	0 - 20
2426541	Molybdenum	1.13	Spike	P	0 - 20
2426541	Nickel	2.71	Spike	P	0 - 20
2426541	Selenium	0.605	Spike	P	0 - 20
2426541	Silver	0.139	Spike	P	0 - 20
2426541	Thallium	0.642	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433129

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426217	Chloride	0.763	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433131

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426217	Sulfate	0.373	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P433284

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426423	Ammonia-N	3.33	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P433269

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2427487	Kjeldahl Nitrogen	10.3	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P433021

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426287	NO2NO3-N	0.391	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P433149

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426378	Total-P	0.177	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P432978

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426226	O-Phosphate-P	0.166	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P432954

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426850	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	9.33	Spike	P	0 - 37
2426850	Acetochlor	10.9	Spike	P	0 - 28

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P432954

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426850	Alachlor	12.8	Spike	P	0 - 30
2426850	Ametryn	16.3	Spike	P	0 - 32
2426850	Atrazine	6.75	Spike	P	0 - 41
2426850	Atrazine Desethyl	25.1	Spike	P	0 - 36
2426850	Avobenzone	10.1	Spike	P	0 - 36
2426850	Azinphos Methyl	5.86	Spike	P	0 - 75
2426850	Azoxystrobin	14.2	Spike	P	0 - 39
2426850	Bromacil	19.7	Spike	P	0 - 33
2426850	Butylate	8.61	Spike	P	0 - 44
2426850	Caffeine	2.61	Spike	P	0 - 74
2426850	Carbophenothion	3.71	Spike	P	0 - 25
2426850	Carfentrazone Ethyl	4.57	Spike	P	0 - 27
2426850	Chlorfenapyr	1.22	Spike	P	0 - 24
2426850	Chlorpyrifos Ethyl	16.5	Spike	P	0 - 26
2426850	Chlorpyrifos Methyl	3.84	Spike	P	0 - 26
2426850	Coumaphos	14.3	Spike	P	0 - 28
2426850	Cyanazine	17.8	Spike	P	0 - 48
2426850	Cyprodinil	6.60	Spike	P	0 - 29
2426850	Dechlorane 602	5.66	Spike	P	0 - 30
2426850	Dechlorane 603	5.09	Spike	P	0 - 30
2426850	Dechlorane Plus	4.34	Spike	P	0 - 30
2426850	Demeton	2.20	Spike	P	0 - 33
2426850	Diazinon	3.89	Spike	P	0 - 29
2426850	Difenoconazole	19.4	Spike	P	0 - 34
2426850	Dimethenamid	3.99	Spike	P	0 - 39
2426850	Dimethomorph	9.11	Spike	P	0 - 51
2426850	Disulfoton	4.45	Spike	P	0 - 30
2426850	Dithiopyr	9.90	Spike	P	0 - 26
2426850	EPTC	21.2	Spike	P	0 - 43
2426850	Ethion	14.6	Spike	P	0 - 79
2426850	Ethoprop	6.29	Spike	P	0 - 29
2426850	Etridiazole	37.5	Spike	F	0 - 33
2426850	Fenamiphos	6.97	Spike	P	0 - 40
2426850	Fenbuconazole	7.99	Spike	P	0 - 74
2426850	Fipronil	16.2	Spike	P	0 - 29
2426850	Fipronil Desulfinyl	19.9	Spike	P	0 - 32
2426850	Fipronil Sulfide	9.46	Spike	P	0 - 30
2426850	Fipronil Sulfone	3.79	Spike	P	0 - 33
2426850	Fluazifop-P-butyl	14.9	Spike	P	0 - 38
2426850	Fludioxonil	1.54	Spike	P	0 - 29
2426850	Flumioxazin	44.6	Spike	P	0 - 51
2426850	Flutolanil	5.01	Spike	P	0 - 25
2426850	Fluxapyroxad	16.9	Spike	P	0 - 45
2426850	Fonofos	3.90	Spike	P	0 - 27
2426850	Hexabromobenzene	0.315	Spike	P	0 - 30
2426850	Hexazinone	0.743	Spike	P	0 - 30
2426850	Imazalil	9.63	Spike	P	0 - 100
2426850	Iprodione	10.2	Spike	P	0 - 33
2426850	Loratadine	3.20	Spike	P	0 - 56
2426850	Malathion	6.53	Spike	P	0 - 37
2426850	Metalaxyl	0.945	Spike	P	0 - 40

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P432954

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426850	Metolachlor	2.85	Spike	P	0 - 29
2426850	Metribuzin	3.07	Spike	P	0 - 45
2426850	Mevinphos	4.36	Spike	P	0 - 29
2426850	Molinate	14.8	Spike	P	0 - 33
2426850	Myclobutanil	5.46	Spike	P	0 - 26
2426850	Naled	16.8	Spike	P	0 - 37
2426850	Napropamide	0.460	Spike	P	0 - 44
2426850	Norflurazon	11.5	Spike	P	0 - 30
2426850	Octinoxate	8.55	Spike	P	0 - 45
2426850	Oxadiazon	2.61	Spike	P	0 - 28
2426850	Oxybenzone	2.29	Spike	P	0 - 46
2426850	Oxyfluorfen	0.543	Spike	P	0 - 28
2426850	Parathion Ethyl	8.00	Spike	P	0 - 31
2426850	Parathion Methyl	3.81	Spike	P	0 - 29
2426850	PBB-153	8.25	Spike	P	0 - 30
2426850	PBDE-47	0.155	Spike	P	0 - 36
2426850	PBDE-99	5.64	Spike	P	0 - 40
2426850	Pendimethalin	11.5	Spike	P	0 - 33
2426850	Pentabromotoluene	6.48	Spike	P	0 - 30
2426850	Phenytoin	1.07	Spike	P	0 - 100
2426850	Phorate	0.382	Spike	P	0 - 36
2426850	Prodiamine	0.353	Spike	P	0 - 71
2426850	Prometon	4.75	Spike	P	0 - 36
2426850	Prometryn	0.754	Spike	P	0 - 28
2426850	Pronamide	10.4	Spike	P	0 - 24
2426850	Propanil	8.35	Spike	P	0 - 28
2426850	Propargite	3.34	Spike	P	0 - 43
2426850	Propiconazole	2.98	Spike	P	0 - 33
2426850	Pyraflufen Ethyl	3.58	Spike	P	0 - 29
2426850	Pyridaben	1.52	Spike	P	0 - 30
2426850	Pyriproxyfen	1.22	Spike	P	0 - 79
2426850	Simazine	3.53	Spike	P	0 - 29
2426850	Stirophos	5.63	Spike	P	0 - 61
2426850	Sulfentrazone	4.32	Spike	P	0 - 33
2426850	Tebuconazole	2.29	Spike	P	0 - 69
2426850	Terbufos	13.9	Spike	P	0 - 29
2426850	Terbuthylazine	15.4	Spike	P	0 - 32
2426850	Tetradecachloro-m-terphenyl	16.2	Spike	P	0 - 30
2426850	Thiobencarb	11.9	Spike	P	0 - 26
2426850	Tri-o-cresyl Phosphate	5.42	Spike	P	0 - 33
2426850	Triadimefon	15.9	Spike	P	0 - 28
2426850	Tris(1-chloro-2-propyl) phosphate (TCPP)	0.681	Spike	P	0 - 30
2426850	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	23.8	Spike	P	0 - 30
2426850	Tris(2-chloroethyl) phosphate (TCEP)	8.64	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P432883

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2425633	2,4-D	4.43	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P432883

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2425633	2,4,5-T	4.92	Spike	P	0 - 30
2425633	Acetaminophen	1.09	Spike	P	0 - 30
2425633	Acetamiprid	3.04	Spike	P	0 - 30
2425633	Afidopyropen	9.12	Spike	P	0 - 30
2425633	Bentazon	1.48	Spike	P	0 - 30
2425633	Benzovindiflupyr	1.21	Spike	P	0 - 30
2425633	Carbamazepine	11.1	Spike	P	0 - 30
2425633	Clothianidin	2.58	Spike	P	0 - 30
2425633	Dinotefuran	19.8	Spike	P	0 - 30
2425633	Diuron	8.62	Spike	P	0 - 30
2425633	Fenuron	5.50	Spike	P	0 - 30
2425633	Fluridone	2.69	Spike	P	0 - 30
2425633	Hydrocodone	3.44	Spike	P	0 - 30
2425633	Ibuprofen	5.32	Spike	P	0 - 30
2425633	Imazapyr	2.90	Spike	P	0 - 30
2425633	Imidacloprid	4.25	Spike	P	0 - 30
2425633	Linuron	4.34	Spike	P	0 - 30
2425633	Mandestrobin	6.39	Spike	P	0 - 30
2425633	MCPP	0.402	Spike	P	0 - 30
2425633	Naproxen	0.122	Spike	P	0 - 30
2425633	Primidone	3.65	Spike	P	0 - 30
2425633	Pyraclostrobin	0.916	Spike	P	0 - 30
2425633	Silvex	2.05	Spike	P	0 - 30
2425633	Thiamethoxam	0.286	Spike	P	0 - 30
2425633	Tolfenpyrad	2.18	Spike	P	0 - 30
2425633	Triclopyr	0.638	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P432932

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426070	Acesulfame K	7.96	Spike	P	0 - 30
2426070	AMPA	5.89	Spike	P	0 - 30
2426070	Endothall	0.873	Spike	P	0 - 30
2426070	Glufosinate	6.34	Spike	P	0 - 30
2426070	Glyphosate	4.09	Spike	P	0 - 30
2426070	Sucralose	9.11	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P433201

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426550	Total Alkalinity	1.04	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015

Batch ID: P433342

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: P433342

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426224	TDS	0.797	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P433204

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426550	Fluoride	0.483	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P433257

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426218	Organic Carbon	0.564	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2426435
Field Sample ID: G2CE0237

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	95.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	73.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	38.2	P	30 - 160
EPA 8321B	Diuron-d6	35.5	P	30 - 160
EPA 8321B	Endothall-d6	107	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	81.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	60.0	P	30 - 160
EPA 8321B	Primidone-d5	55.0	P	30 - 160
EPA 8321B	Sucralose-d6	80.5	P	30 - 160

Lab Sample ID: 2426449
Field Sample ID: G2CE0237

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	63.0	P	20 - 200
EPA 8270E	Simazine-d10	72.7	P	62 - 142
EPA 8270E	Terbufos-d10	88.6	P	58 - 132
EPA 8270E	Terphenyl-d14	88.8	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A120616

Included Lab Sample IDs: 2426422

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	96.5	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A120619

Included Lab Sample IDs: 2426424

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	99.2	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A120628

Included Lab Sample IDs: 2426422

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A120643

Included Lab Sample IDs: 2426423

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.5	98.0	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A120686

Included Lab Sample IDs: 2426422

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.7	101	P/P	90 - 110
Sulfate	99.6	100	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A120717

Included Lab Sample IDs: 2426436

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	97.1	99.0	P/P	90 - 110
Antimony	96.5	96.3	P/P	90 - 110
Arsenic	97.3	96.2	P/P	90 - 110
Barium	97.5	98.4	P/P	90 - 110
Boron	96.8	96.7	P/P	90 - 110
Cadmium	97.0	96.2	P/P	90 - 110
Copper	95.2	98.9	P/P	90 - 110
Lead	97.7	95.9	P/P	90 - 110
Manganese	95.5	90.9	P/P	90 - 110
Molybdenum	95.9	93.7	P/P	90 - 110
Selenium	97.3	97.5	P/P	90 - 110
Silver	99.8	97.8	P/P	90 - 110
Thallium	97.6	95.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A120722
Included Lab Sample IDs: 2426449

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	87.2		P	80 - 120
Avobenzene	95.6		P	80 - 120
Dechlorane 602	96.2		P	80 - 120
Dechlorane 603	90.6		P	80 - 120
Dechlorane Plus	84.8		P	80 - 120
Hexabromobenzene	88.6		P	80 - 120
Octinoxate	91.5		P	80 - 120
Oxybenzone	91.6		P	80 - 120
PBB-153	87.2		P	80 - 120
PBDE-47	88.5		P	80 - 120
PBDE-99	86.8		P	80 - 120
Pentabromotoluene	93.3		P	80 - 120
Tetradecachloro-m-terphenyl	84.8		P	80 - 120
Tri-o-cresyl Phosphate	93.6		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	93.5		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	88.8		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	91.9		P	80 - 120

Reference Method: SM 2320 B-2011
Run ID: A120725
Included Lab Sample IDs: 2426422

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.5	93.6	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A120725
Included Lab Sample IDs: 2426422

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.5	101	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A120726
Included Lab Sample IDs: 2426435

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	90.8	96.7	P/P	60 - 160
Sucralose	87.6	94.9	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A120727
Included Lab Sample IDs: 2426435

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	108	97.6	P/P	60 - 160
Endothall	89.9	86.8	P/P	60 - 160
Glufosinate	94.9	91.5	P/P	60 - 160
Glyphosate	93.6	99.0	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A120732

Included Lab Sample IDs: 2426423

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

Reference Method: EPA 8321B

Run ID: A120734

Included Lab Sample IDs: 2426435

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	107	106	P/P	50 - 150
2,4,5-T	101	108	P/P	50 - 150
Acetaminophen	127	127	P/P	60 - 160
Acetamiprid	125	127	P/P	50 - 150
Afidopyropen	118	116	P/P	50 - 150
Bentazon	144	141	P/P	50 - 160
Benzovindiflupyr	120	136	P/P	50 - 150
Carbamazepine	137	144	P/P	60 - 150
Clothianidin	139	137	P/P	60 - 150
Dinotefuran	140	133	P/P	50 - 150
Diuron	130	130	P/P	60 - 160
Fenuron	126	125	P/P	60 - 150
Fluridone	135	142	P/P	60 - 160
Hydrocodone	119	133	P/P	60 - 150
Ibuprofen	109	73.9	P/P	50 - 160
Imazapyr	117	114	P/P	50 - 150
Imidacloprid	106	113	P/P	60 - 150
Linuron	111	124	P/P	60 - 150
Mandestrobin	131	136	P/P	50 - 150
MCPP	117	105	P/P	50 - 150
Naproxen	142	82.8	P/P	50 - 160
Primidone	116	124	P/P	60 - 150
Pyraclostrobin	125	134	P/P	60 - 150
Silvex	112	121	P/P	50 - 150
Thiamethoxam	125	123	P/P	50 - 150
Tolfenpyrad	117	121	P/P	60 - 150
Triclopyr	112	111	P/P	50 - 150

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A120750

Included Lab Sample IDs: 2426436

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beryllium	97.9	98.5	P/P	90 - 110
Chromium	98.9	102	P/P	90 - 110
Cobalt	97.5	99.3	P/P	90 - 110
Nickel	98.5	99.7	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A120752

Included Lab Sample IDs: 2426423

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.4	95.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A120767

Included Lab Sample IDs: 2426423

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.6	96.6	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A120773

Included Lab Sample IDs: 2426436

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	98.7	101	P/P	90 - 110
Iron	99.5	101	P/P	90 - 110
Magnesium	98.5	100	P/P	90 - 110
Potassium	96.2	97.4	P/P	90 - 110
Sodium	99.9	100	P/P	90 - 110
Strontium	94.2	93.7	P/P	90 - 110
Tin	97.1	95.2	P/P	90 - 110
Titanium	95.9	94.7	P/P	90 - 110
Vanadium	96.1	95.2	P/P	90 - 110
Zinc	98.8	98.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A120822

Included Lab Sample IDs: 2426423

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.0	96.8	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A120931

Included Lab Sample IDs: 2426449

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	86.6		P	80 - 120
Alachlor	90.9		P	80 - 120
Ametryn	105		P	80 - 120
Atrazine	94.9		P	80 - 120
Atrazine Desethyl	93.6		P	80 - 120
Azinphos Methyl	93.0		P	80 - 120
Azoxystrobin	96.9		P	80 - 120
Bromacil	97.9		P	80 - 120
Butylate	94.1		P	80 - 120
Caffeine	97.0		P	80 - 120
Carbophenothion	103		P	80 - 120
Carfentrazone Ethyl	95.1		P	80 - 120
Chlorfenapyr	81.2		P	80 - 120
Chlorpyrifos Ethyl	90.4		P	80 - 120
Chlorpyrifos Methyl	93.6		P	80 - 120
Coumaphos	96.3		P	80 - 120
Cyanazine	89.8		P	80 - 120
Cyprodinil	100		P	80 - 120
Demeton	99.5		P	80 - 120
Diazinon	97.0		P	80 - 120
Difenoconazole	90.5		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A120931
 Included Lab Sample IDs: 2426449

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dimethenamid	94.4		P	80 - 120
Dimethomorph	101		P	80 - 120
Disulfoton	103		P	80 - 120
Dithiopyr	99.5		P	80 - 120
EPTC	99.7		P	80 - 120
Ethion	104		P	80 - 120
Ethoprop	97.1		P	80 - 120
Etridiazole	102		P	80 - 120
Fenamiphos	89.8		P	80 - 120
Fenbuconazole	82.2		P	80 - 120
Fipronil	87.5		P	80 - 120
Fipronil Desulfinyl	95.9		P	80 - 120
Fipronil Sulfide	95.6		P	80 - 120
Fipronil Sulfone	93.2		P	80 - 120
Fluazifop-P-butyl	89.9		P	80 - 120
Fludioxonil	95.0		P	80 - 120
Flutolanil	98.2		P	80 - 120
Fluxapyroxad	99.0		P	80 - 120
Fonofos	96.1		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	99.1		P	80 - 120
Iprodione	76.1*		F	80 - 120
Loratadine	85.6		P	80 - 120
Malathion	82.3		P	80 - 120
Metalaxyl	90.5		P	80 - 120
Metolachlor	100		P	80 - 120
Metribuzin	89.7		P	80 - 120
Mevinphos	101		P	80 - 120
Molinate	84.5		P	80 - 120
Myclobutanil	91.1		P	80 - 120
Naled	87.4		P	80 - 120
Napropamide	97.0		P	80 - 120
Norflurazon	100		P	80 - 120
Oxadiazon	104		P	80 - 120
Oxyfluorfen	95.3		P	80 - 120
Parathion Ethyl	103		P	80 - 120
Parathion Methyl	84.2		P	80 - 120
Pendimethalin	106		P	80 - 120
Phenytol	102		P	80 - 120
Phorate	103		P	80 - 120
Prodiamine	113		P	80 - 120
Prometon	105		P	80 - 120
Prometryn	101		P	80 - 120
Pronamide	101		P	80 - 120
Propanil	100		P	80 - 120
Propargite	95.8		P	80 - 120
Propiconazole	87.8		P	80 - 120
Pyraflufen Ethyl	102		P	80 - 120
Pyridaben	100		P	80 - 120
Pyriproxyfen	101		P	80 - 120
Simazine	80.0		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A120931
Included Lab Sample IDs: 2426449

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Stirophos	80.1		P	80 - 120
Sulfentrazone	96.0		P	80 - 120
Tebuconazole	100		P	80 - 120
Terbufos	101		P	80 - 120
Terbuthylazine	89.3		P	80 - 120
Thiobencarb	100		P	80 - 120
Triadimefon	98.0		P	80 - 120

Reference Method: EPA 8270E
Run ID: A120932
Included Lab Sample IDs: 2426449

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Flumioxazin	96.9		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)	98.3					9.33	
EPA 180.1 Rev. 2.0	Turbidity	99.3					5.98	
EPA 200.7 Rev. 4.4	Calcium	104	105	105	104			0.865
	Iron	105	101	103	103			0.196
	Magnesium	105	104	102	103			0.572
	Potassium	100	103	103				0.0730
	Sodium	105	104	103				0.387
	Strontium	95.5	95.6	94.5	94.8			0.305
	Tin	99.5	75.7	95.8	95.7			0.111
	Titanium	97.1	97.2	98.9				1.79
	Vanadium	97.8	97.3	98.5				1.19
	Zinc	98.4	99.2	99.0	98.6			0.435
EPA 200.8 Rev. 5.4	Aluminum	101	101	101				0.257
	Antimony	101	100	99.8	74.6			0.411
	Arsenic	99.4	99.6	97.7	99.6			1.93
	Barium	102	103	102				0.884
	Beryllium	94.7	97.2	95.1				2.17
	Boron	109	104	105				1.58
	Cadmium	99.1	101	98.9	87.1			1.69
	Chromium	95.9	96.7	95.2				1.53
	Cobalt	95.4	96.8	95.3	79.0			1.52
	Copper	98.8	101	100				0.734
	Lead	101	102	101				1.03
	Manganese	98.7	99.9	97.3				2.18
	Molybdenum	97.2	98.4	97.3				1.13
	Nickel	96.4	97.1	94.5				2.71
	Selenium	98.1	98.6	99.2	91.0			0.605
	Silver	107	105	105	89.0			0.139
	Thallium	98.3	102	102	107			0.642
EPA 300.0 Rev. 2.1	Chloride	101	101	104			0.763	
	Sulfate	100	100	95.8			0.373	
EPA 350.1 Rev. 2.0	Ammonia-N	95.2	95.2	99.0				3.33
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	96.3						10.3
EPA 353.2 Rev. 2.0	NO2NO3-N	98.5	97.4	96.9				0.391
EPA 365.1 Rev. 2.0	Total-P	104	105	106				0.177
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	99.5	99.7				0.166
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	62.1	82.8	90.9				9.33
	Acetochlor	90.0	94.8	85.0				10.9
	Alachlor	78.9	77.9	68.5				12.8
	Ametryn	113	132	112				16.3
	Atrazine	92.5						6.75
	Atrazine Desethyl	83.1	95.7	74.4				25.1
	Avobenzone	113	109	98.1				10.1
	Azinphos Methyl	70.4	103	109				5.86
	Azoxystrobin	86.3	95.2	110				14.2
	Bromacil	91.8	104	85.8				19.7
	Butylate	71.4	66.8	61.3				8.61
	Caffeine	93.3	101	104				2.61
	Carbophenothion	99.3	102	106				3.71
	Carfentrazone Ethyl	104	115	110				4.57
	Chlorfenapyr	81.5	86.9	85.9				1.22
	Chlorpyrifos Ethyl	100	99.8	84.6				16.5

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Chlorpyrifos Methyl	95.6	107	103			3.84
	Coumaphos	95.3	131	151			14.3
	Cyanazine	154	155	130			17.8
	Cyprodinil	106	108	101			6.60
	Dechlorane 602	28.0	37.2	39.4			5.66
	Dechlorane 603	86.9	77.9	74.0			5.09
	Dechlorane Plus	65.3	60.8	63.5			4.34
	Demeton	104	101	98.9			2.20
	Diazinon	109	119	114			3.89
	Difenoconazole	34.2	96.1	117			19.4
	Dimethenamid	79.8	86.3	89.8			3.99
	Dimethomorph	138	270	296			9.11
	Disulfoton	103	103	98.5			4.45
	Dithiopyr	97.3	46.0	50.8			9.90
	EPTC	70.3	63.3	51.2			21.2
	Ethion	34.6	47.3	54.7			14.6
	Ethoprop	105	107	101			6.29
	Etridiazole	81.7	85.4	58.4			37.5
	Fenamiphos	105	104	96.8			6.97
	Fenbuconazole	44.8	90.5	98.0			7.99
	Fipronil	106	105	88.2			16.2
	Fipronil Desulfinyl	98.3	112	90.2			19.9
	Fipronil Sulfide	97.8	106	95.3			9.46
	Fipronil Sulfone	93.2	88.1	84.2			3.79
	Fluazifop-P-butyl	87.1	113	97.5			14.9
	Fludioxonil	69.3	77.2	76.1			1.54
	Flumioxazin	18.1	55.3	87.0			44.6
	Flutolanil	81.7	54.5	57.4			5.01
	Fluxapyroxad	53.8	72.9	86.4			16.9
	Fonofos	92.7	99.7	95.9			3.90
	Hexabromobenzene	88.3	111	112			0.315
	Hexazinone	85.4	102	102			0.743
	Imazalil	96.4	83.4	91.9			9.63
	Iprodione	62.8	76.7	69.2			10.2
	Loratadine	128	199	205			3.20
	Malathion	85.9	85.2	79.8			6.53
	Metalaxyl	103	100	101			0.945
	Metolachlor	84.4	88.3	90.9			2.85
	Metribuzin	99.9	95.8	98.8			3.07
	Mevinphos	115	109	104			4.36
	Molinate	61.5	66.0	56.9			14.8
	Myclobutanil	89.4	92.6	87.6			5.46
	Naled	43.9	49.1	58.0			16.8
	Napropamide	65.6	73.1	72.7			0.460
	Norflurazon	98.6	109	97.3			11.5
	Octinoxate	101	114	104			8.55
	Oxadiazon	80.9	75.5	73.6			2.61
	Oxybenzone	110	127	130			2.29
	Oxyfluorfen	91.4	95.6	96.1			0.543
	Parathion Ethyl	109	92.3	85.2			8.00
	Parathion Methyl	116	127	123			3.81
	PBB-153	61.9	103	112			8.25
	PBDE-47	52.7	82.9	83.1			0.155
	PBDE-99	41.1	78.8	83.3			5.64

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Pendimethalin	118	118	105		11.5
	Pentabromotoluene	86.1	98.1	92.0		6.48
	Phenytoin	24.0	23.6	23.3		1.07
	Phorate	99.9	110	110		0.382
	Prodiamine	48.5	65.1	64.9		0.353
	Prometon	110	85.4	89.6		4.75
	Prometryn	127	54.5	54.1		0.754
	Pronamide	108	107	96.8		10.4
	Propanil	86.9	91.0	83.7		8.35
	Propargite	34.7	48.3	46.7		3.34
	Propiconazole	66.5	76.9	79.2		2.98
	Pyraflufen Ethyl	95.4	109	106		3.58
	Pyridaben	88.7	131	129		1.52
	Pyriproxyfen	32.5	77.1	78.1		1.22
	Simazine	74.5	73.2	70.6		3.53
	Stiropfos	26.7	18.2	19.2		5.63
	Sulfentrazone	68.9	91.3	87.4		4.32
	Tebuconazole	34.3	51.3	52.5		2.29
	Terbufos	111	116	101		13.9
	Terbutylazine	86.3	92.7	79.5		15.4
	Tetradecachloro-m-terphenyl	172	91.6	77.9		16.2
	Thiobencarb	83.0	80.4	71.4		11.9
	Tri-o-cresyl Phosphate	101	112	106		5.42
	Triadimefon	79.3	90.6	77.3		15.9
	Tris(1-chloro-2-propyl) phosphate (TCPP)	105	85.9	86.7		0.681
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	84.5	106	83.0		23.8
	Tris(2-chloroethyl) phosphate (TCEP)	103	111	102		8.64
EPA 8321B	2,4-D	81.8	118	113		4.43
	2,4,5-T	70.3	104	109		4.92
	Acesulfame K	94.9	109	118		7.96
	Acetaminophen	79.0	99.4	98.4		1.09
	Acetamiprid	79.5	60.0	61.8		3.04
	Afidopyropen	57.9	66.9	73.3		9.12
	AMPA	57.2	61.9	66.9		5.89
	Bentazon	126	117	119		1.48
	Benzovindiflupyr	78.2	80.7	79.7		1.21
	Carbamazepine	69.8	50.0	55.9		11.1
	Clothianidin	88.8	87.2	84.9		2.58
	Dinotefuran	88.5	67.5	82.3		19.8
	Diuron	44.0	31.6	34.4		8.62
	Endothall	91.1	128	127		0.873
	Fenuron	96.2	61.1	64.6		5.50
	Fluridone	98.8	87.9	90.3		2.69
	Glufosinate	104	82.2	77.1		6.34
	Glyphosate	110	116	111		4.09
	Hydrocodone	80.8	60.2	62.3		3.44
	Ibuprofen	72.5	69.8	66.2		5.32
	Imazapyr	79.8	98.5	95.7		2.90
	Imidacloprid	73.2	115	120		4.25
	Linuron	52.1	52.8	50.5		4.34
	Mandestrobin	81.4	80.0	85.3		6.39

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 8321B	MCP	86.2	123	124		0.402
	Naproxen	69.0	128	128		0.122
	Primidone	68.7	78.0	75.2		3.65
	Pyraclostrobin	74.0	77.3	76.6		0.916
	Silvex	87.9	114	116		2.05
	Sucralose	96.0	104	94.5		9.11
	Thiamethoxam	98.3	76.5	76.7		0.286
	Tolfenpyrad	56.8	57.7	56.4		2.18
	Triclopyr	70.8	103	102		0.638
SM 2320 B-2011	Total Alkalinity	95.0				1.04
SM 2540 C-2015	TDS	97.4				0.797
SM 2540 D-2015	TSS	95.8				
SM 4500-F- C-2011	Fluoride	98.1	98.2	98.8		0.483
SM 5310 B-2011	Organic Carbon	96.2	97.2	97.8		0.564

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2426422
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2426422
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2426436
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2426436
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2426422
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2426422
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2426423
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2426423
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2426423
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2426423
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2426424
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2426449
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2426449
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2426435
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2426422
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2426436
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2426422
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2426422
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2426422
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2426423

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	07/25/2023			07/25/2023 13:50	Chandler E Cox	2426422
EPA 180.1 Rev. 2.0	07/25/2023			07/25/2023 14:37	Khloe J Berg	2426422
EPA 200.7 Rev. 4.4	07/25/2023	07/27/2023 12:10	George D Taylor	08/01/2023 19:25	Chase Roberts	2426436
EPA 200.8 Rev. 5.4	07/25/2023	07/27/2023 12:10	George D Taylor	07/28/2023 15:48	Emily M Philpot	2426436
	07/25/2023	07/27/2023 12:10	George D Taylor	07/31/2023 10:35	Conrad Hartmann	2426436
EPA 300.0 Rev. 2.1	07/25/2023			07/27/2023 02:21	James L Waggeberby	2426422
EPA 350.1 Rev. 2.0	07/25/2023			08/01/2023 12:48	Ping Hua	2426423
EPA 351.2 Rev. 2.0	07/25/2023	08/01/2023 10:22	Dana G. Hughes	08/03/2023 10:03	Samantha L Bates	2426423
EPA 353.2 Rev. 2.0	07/25/2023			07/26/2023 10:48	Beverly Y. Sanders	2426423
EPA 365.1 Rev. 2.0	07/25/2023	07/28/2023 14:20	Simonne.V. Calhoun	07/31/2023 11:24	Chandler E Cox	2426423
EPA 365.1 Rev. 2.0 dissolved	07/25/2023			07/25/2023 14:20	Adam P Silver	2426424
EPA 8270E	07/25/2023	07/27/2023 08:00	Fe-Val Siddell	07/28/2023 22:11	Arthur Maknenko	2426449
	07/25/2023	07/27/2023 08:00	Fe-Val Siddell	08/01/2023 17:10	Vandana T. Nagar	2426449
	07/25/2023	07/27/2023 08:00	Fe-Val Siddell	08/07/2023 19:57	Vandana T. Nagar	2426449
EPA 8321B	07/25/2023	07/25/2023 14:00	Hoor Shaik	07/26/2023 01:29	Juyoung Kim	2426435
	07/25/2023	07/26/2023 01:00	Hana Lee	07/26/2023 03:03	Tae K Lee	2426435
	07/25/2023	07/26/2023 01:00	Hana Lee	07/26/2023 12:31	Tae K Lee	2426435
SM 2320 B-2011	07/25/2023			07/28/2023 02:03	Dale L. Simmons	2426422
SM 2340 B-2011	07/25/2023			08/01/2023 19:25	Chase Roberts	2426436
SM 2540 C-2015	07/25/2023			07/27/2023 16:02	Yijie Li	2426422
SM 2540 D-2015	07/25/2023			07/27/2023 16:02	Yijie Li	2426422
SM 4500-F- C-2011	07/25/2023			07/28/2023 02:03	Dale L. Simmons	2426422
SM 5310 B-2011	07/25/2023			07/31/2023 17:49	Elise M. Gillis	2426423