

Chemical Analysis Report

CEN-DIST-2023-06-28-02

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

Event Description: **Lake Irma LVI**
Request ID: **RQ-2023-06-19-24**
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
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Certified by: Colin Wright, Program Administrator

Date Certified: 19-JUL-2023 10:05



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 IRMA AT CENTER

Collection Date/Time: 06/27/2023 10:33

Field ID: G2CE0104

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2420236	DEP SOP: NU-094-1	Color (true)	33		PCU	P431888	
	EPA 180.1 Rev. 2.0	Turbidity	1.1		NTU	P431890	
	EPA 300.0 Rev. 2.1	Chloride	19		mg Cl/L	P432085	
		Sulfate	5.7		mg SO4/L	P432088	
	SM 2320 B-2011	Total Alkalinity	26		mg CaCO3/L	P432207	
	SM 2540 C-2015	TDS	83		mg/L	P432261	
	SM 2540 D-2015	TSS	2	U	mg/L	P432164	
2420237	SM 4500-F- C-2011	Fluoride	0.055	I	mg F/L	P432209	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P432107	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.57		mg N/L	P432014	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P432104	
	EPA 365.1 Rev. 2.0	Total-P	0.020		mg P/L	P431904	
2420238	SM 5310 B-2011	Organic Carbon	8.5		mg C/L	P432071	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P431892	
2420244	EPA 8321B	2,4-D	0.063		ug/L	P431897	
		Acesulfame K	0.10	U	ug/L	P431789	
		2,4,5-T	0.0040	U	ug/L	P431897	
		AMPA	0.32	I	ug/L	P431789	
		Acetaminophen	0.0080	U	ug/L	P431897	
		Acetamiprid	0.0020	U	ug/L	P431897	
		Endothall	0.25	U	ug/L	P431789	
		Glufosinate	0.10	U	ug/L	P431789	
		Glyphosate	0.38	I	ug/L	P431789	
		Afidopyropen	0.0020	U	ug/L	P431897	
		Bentazon	0.072		ug/L	P431897	
		Sucralose	0.25		ug/L	P431789	
		Benzovindiflupyr	0.0020	U	ug/L	P431897	
		Carbamazepine	8.0E-04	U	ug/L	P431897	
		Clothianidin	0.0038	I	ug/L	P431897	
		Dinotefuran	0.0020	U	ug/L	P431897	
		Diuron	0.0022	I	ug/L	P431897	MS, RPD
		Fenuron	0.032	U	ug/L	P431897	
		Fluridone	0.021		ug/L	P431897	
		Imazapyr	0.19		ug/L	P431897	
		Hydrocodone	0.0020	U	ug/L	P431897	
		Ibuprofen	0.080	U	ug/L	P431897	
		Imidacloprid	0.0021	I	ug/L	P431897	
		Linuron	0.0040	U	ug/L	P431897	
		Mandestrobin	0.0020	U	ug/L	P431897	
		MCPD	0.0035	I	ug/L	P431897	
		Naproxen	0.0080	U	ug/L	P431897	
		Primidone	0.0040	U	ug/L	P431897	
		Pyraclostrobin	0.0020	U	ug/L	P431897	

Field ID: G2CE0104

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2420244	EPA 8321B	Silvex	0.0040	U	ug/L	P431897	
		Thiamethoxam	0.0020	U	ug/L	P431897	
		Tolfenpyrad	0.0020	U	ug/L	P431897	
		Triclopyr	0.0040	U	ug/L	P431897	
2420245	EPA 200.7 Rev. 4.4	Calcium	12.5		mg/L	P431939	
		Iron	63	I	ug/L	P431939	
		Magnesium	2.05		mg/L	P431939	
		Potassium	1.5		mg/L	P431939	
		Sodium	10.2		mg/L	P431939	
		Strontium	45.6		ug/L	P431939	
		Tin	3.0	U	ug/L	P431939	
		Titanium	0.75	U	ug/L	P431939	
		Vanadium	2.0	U	ug/L	P431939	
		Zinc	5.0	U	ug/L	P431939	
	EPA 200.8 Rev. 5.4	Aluminum	20	I	ug/L	P431939	
		Antimony	0.18	I	ug/L	P431939	
		Arsenic	2.25		ug/L	P431939	
		Barium	6.57		ug/L	P431939	
		Beryllium	0.010	U	ug/L	P431939	
		Boron	27.1		ug/L	P431939	
		Cadmium	0.020	U	ug/L	P431939	
		Chromium	0.40	U	ug/L	P431939	
		Cobalt	0.023	I	ug/L	P431939	
		Copper	1.25		ug/L	P431939	
		Lead	0.20	U	ug/L	P431939	
		Manganese	2.95		ug/L	P431939	
		Molybdenum	0.38	I	ug/L	P431939	
		Nickel	0.50	U	ug/L	P431939	
		Selenium	0.20	U	ug/L	P431939	
		Silver	0.010	U	ug/L	P431939	
		Thallium	0.10	U	ug/L	P431939	
	SM 2340 B-2011	Hardness	39.5		mg/L	P431939	
2420246	EPA 8270E	Oxybenzone**	10	U	ng/L	P431788	MS
		Acetochlor	0.21	U	ng/L	P431788	MS
		Octinoxate**	150	U	ng/L	P431788	
		Alachlor	0.41	U	ng/L	P431788	
		Avobenzone**	100	U	ng/L	P431788	
		Ametryn	1.1	U	ng/L	P431788	
		Atrazine	75		ng/L	P431788	MS
		PBDE-47**	4.1	U	ng/L	P431788	
		Atrazine Desethyl	12		ng/L	P431788	
		PBDE-99**	5.1	U	ng/L	P431788	
		Azinphos Methyl	3.1	U	ng/L	P431788	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P431788	
		Azoxystrobin	0.41	U	ng/L	P431788	RPD

Field ID: G2CE0104

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2420246	EPA 8270E	Bromacil	0.62	U	ng/L	P431788	
		2-Ethylhexyl	12	U	ng/L	P431788	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.21	U	ng/L	P431788	
		Dechlorane Plus**	31	U	ng/L	P431788	
		Caffeine**	9.7	I	ng/L	P431788	
		Dechlorane 602**	5.1	U	ng/L	P431788	
		Carbophenothion	0.51	U	ng/L	P431788	RPD
		Dechlorane 603**	4.1	U	ng/L	P431788	
		Carfentrazone Ethyl	0.15	U	ng/L	P431788	RPD
		Hexabromobenzene**	6.2	U	ng/L	P431788	
		Chlorfenapyr	0.31	U	ng/L	P431788	
		PBB-153**	8.2	UJ	ng/L	P431788	LCS
		Chlorpyrifos Ethyl	0.31	U	ng/L	P431788	RPD
		Pentabromotoluene**	3.1	U	ng/L	P431788	
		Chlorpyrifos Methyl	0.10	U	ng/L	P431788	MS
		Tris(2-chloroethyl) phosphate (TCEP)**	72	U	ng/L	P431788	
		Coumaphos	1.1	U	ng/L	P431788	RPD
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	66		ng/L	P431788	
		Cyanazine	5.1	U	ng/L	P431788	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	23		ng/L	P431788	
		Cyprodinil	0.21	U	ng/L	P431788	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P431788	
		Demeton	3.6	U	ng/L	P431788	
		Diazinon	0.13	U	ng/L	P431788	
		Difenoconazole	0.62	U	ng/L	P431788	RPD
		Dimethenamid	0.10	U	ng/L	P431788	
		Dimethomorph	0.31	U	ng/L	P431788	
		Disulfoton	0.62	U	ng/L	P431788	
		Dithiopyr	1.0	U	ng/L	P431788	
		EPTC	0.51	U	ng/L	P431788	RPD
		Ethion	0.31	U	ng/L	P431788	
		Ethoprop	0.13	U	ng/L	P431788	MS, RPD
		Etridiazole	0.10	U	ng/L	P431788	RPD
		Fenamiphos	0.46	U	ng/L	P431788	
		Fenbuconazole	0.51	U	ng/L	P431788	MS
		Fipronil	0.21	U	ng/L	P431788	
		Fipronil Desulfinyl**	1.3		ng/L	P431788	
		Fipronil Sulfide	0.59		ng/L	P431788	
		Fipronil Sulfone	1.4		ng/L	P431788	
		Fluazifop-P-butyl	0.10	U	ng/L	P431788	
		Fludioxonil	0.10	U	ng/L	P431788	MS
		Flumioxazin	3.1	U	ng/L	P431788	
		Flutolanil	0.10	U	ng/L	P431788	
		Fluxapyroxad	0.26	U	ng/L	P431788	

Field ID: G2CE0104

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2420246	EPA 8270E	Fonofos	0.15	U	ng/L	P431788	
		Hexazinone	0.51	U	ng/L	P431788	MS, RPD
		Imazalil	0.67	U	ng/L	P431788	
		Iprodione	0.51	UJ	ng/L	P431788	CCV
		Loratadine**	0.31	U	ng/L	P431788	RPD
		Malathion	0.36	U	ng/L	P431788	MS
		Metalaxyl	0.51	U	ng/L	P431788	MS
		Metolachlor	0.85	I	ng/L	P431788	RPD
		Metribuzin	0.41	U	ng/L	P431788	RPD
		Mevinphos	1.0	U	ng/L	P431788	RPD
		Molinate	0.26	U	ng/L	P431788	MS
		Myclobutanil	0.36	U	ng/L	P431788	RPD
		Naled	2.6	U	ng/L	P431788	RPD
		Napropamide	0.72	U	ng/L	P431788	
		Norflurazon	1.0	U	ng/L	P431788	RPD
		Oxadiazon	0.42	I	ng/L	P431788	
		Oxyfluorfen	0.21	U	ng/L	P431788	
		Parathion Ethyl	0.15	U	ng/L	P431788	MS, RPD
		Parathion Methyl	0.21	U	ng/L	P431788	MS
		Pendimethalin	0.77	U	ng/L	P431788	
		Phenytol**	5.4	U	ng/L	P431788	
		Phorate	0.26	U	ng/L	P431788	
		Prodiamine	0.21	U	ng/L	P431788	MS
		Prometon	3.1	U	ng/L	P431788	MS
		Prometryn	0.36	U	ng/L	P431788	
		Pronamide	0.10	U	ng/L	P431788	
		Propanil	0.10	U	ng/L	P431788	
		Propargite	0.82	U	ng/L	P431788	
		Propiconazole	0.62	U	ng/L	P431788	
		Pyraflufen Ethyl	0.31	U	ng/L	P431788	
		Pyridaben	1.4	U	ng/L	P431788	
		Pyriproxyfen	0.26	U	ng/L	P431788	
		Simazine	1.3	I	ng/L	P431788	RPD
		Stiophos	0.41	U	ng/L	P431788	
		Sulfentrazone	1.4	U	ng/L	P431788	
		Tebuconazole	3.0	I	ng/L	P431788	
		Terbufos	0.21	U	ng/L	P431788	
		Terbuthylazine	0.21	U	ng/L	P431788	
		Thiobencarb	0.51	U	ng/L	P431788	
		Triadimefon	0.15	U	ng/L	P431788	

Ref. Method and Comment:

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

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

EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters 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: P431888

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431890

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P431939

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: P431939

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: P432085

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: P432088

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432107

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432014

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432104

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431904

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P431892

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

Reference Method: EPA 8270E
Batch ID: P431788

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: P431788

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: P431788

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: P431788

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: P431788

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: P431789

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: P431897

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: P431897

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: P432207

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

Reference Method: SM 2540 C-2015

Batch ID: P432261

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P432164

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P432209

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P432071

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: P431888

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.8		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431890

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P431939

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	100		P	85 - 115
Iron	104		P	85 - 115
Magnesium	106		P	85 - 115
Potassium	96.0		P	85 - 115
Sodium	97.0		P	85 - 115
Strontium	95.4		P	85 - 115
Tin	96.0		P	85 - 115
Titanium	99.1		P	85 - 115
Vanadium	96.5		P	85 - 115
Zinc	97.7		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P431939

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	101		P	85 - 115
Antimony	103		P	85 - 115
Arsenic	101		P	85 - 115
Barium	105		P	85 - 115
Beryllium	96.4		P	85 - 115
Boron	107		P	85 - 115
Cadmium	103		P	85 - 115
Chromium	97.4		P	85 - 115
Cobalt	104		P	85 - 115
Copper	98.2		P	85 - 115
Lead	106		P	85 - 115
Manganese	100		P	85 - 115
Molybdenum	102		P	85 - 115
Nickel	98.1		P	85 - 115
Selenium	102		P	85 - 115
Silver	110		P	85 - 115
Thallium	101		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432085

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	97.0		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432088

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	94.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432107

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	93.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432014

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.4		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432104

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: P431904

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P431892

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

Reference Method: EPA 8270E
Batch ID: P431788

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	126		P	42 - 162
Acetochlor	78.9		P	69 - 123
Alachlor	87.2		P	65 - 118
Ametryn	113		P	58 - 141
Atrazine	89.0		P	73 - 118
Atrazine Desethyl	85.4		P	32 - 125
Avobenzone	139		P	40 - 203
Azinphos Methyl	152		P	36 - 197
Azoxystrobin	100		P	58 - 226
Bromacil	86.4		P	48 - 120
Butylate	51.0		P	27 - 85.0
Caffeine	104		P	40 - 137
Carbophenothion	97.4		P	54 - 132
Carfentrazone Ethyl	103		P	60 - 142
Chlorfenapyr	83.3		P	53 - 117
Chlorpyrifos Ethyl	86.3		P	59 - 116

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P431788

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	102		P	66 - 119
Coumaphos	143		P	11 - 234
Cyanazine	128		P	61 - 248
Cyprodinil	90.1		P	50 - 147
Dechlorane 602	126		P	50 - 150
Dechlorane 603	144		P	50 - 150
Dechlorane Plus	108		P	47 - 182
Demeton	78.9		P	30 - 138
Diazinon	91.7		P	67 - 126
Difenoconazole	185		P	38 - 205
Dimethenamid	89.7		P	57 - 111
Dimethomorph	95.2		P	16 - 212
Disulfoton	80.7		P	46 - 126
Dithiopyr	81.6		P	62 - 115
EPTC	46.8		P	28 - 80.0
Ethion	76.2		P	24 - 122
Ethoprop	81.6		P	62 - 113
Etridiazole	57.2		P	28 - 92.0
Fenamiphos	88.4		P	57 - 128
Fenbuconazole	102		P	52 - 155
Fipronil	84.6		P	63 - 130
Fipronil Desulfinyl	85.2		P	61 - 130
Fipronil Sulfide	94.2		P	56 - 117
Fipronil Sulfone	92.1		P	52 - 118
Fluazifop-P-butyl	86.4		P	61 - 128
Fludioxonil	86.3		P	59 - 129
Flumioxazin	181		P	30 - 250
Flutolanil	94.6		P	53 - 127
Fluxapyroxad	89.8		P	42 - 132
Fonofos	90.9		P	61 - 110
Hexabromobenzene	131		P	50 - 150
Hexazinone	91.9		P	46 - 139
Imazalil	90.8		P	40 - 139
Iprodione	54.7		P	40 - 146
Loratadine	190		P	10 - 224
Malathion	87.1		P	61 - 135
Metaxyl	80.5		P	58 - 121
Metolachlor	96.0		P	64 - 118
Metribuzin	88.2		P	45 - 245
Mevinphos	83.1		P	49 - 118
Molinate	51.9		P	42 - 92.0
Myclobutanil	82.5		P	55 - 127
Naled	43.2		P	10 - 114
Napropamide	86.6		P	39 - 121
Norflurazon	85.7		P	55 - 129
Octinoxate	124		P	26 - 166
Oxadiazon	79.3		P	54 - 115
Oxybenzone	126		P	49 - 135
Oxyfluorfen	104		P	64 - 139
Parathion Ethyl	91.9		P	70 - 111
Parathion Methyl	93.0		P	76 - 136
PBB-153	151		F	50 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P431788

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBDE-47	119		P	41 - 148
PBDE-99	116		P	38 - 147
Pendimethalin	90.8		P	52 - 118
Pentabromotoluene	117		P	50 - 150
Phenytoin	31.7		P	10 - 162
Phorate	88.2		P	40 - 122
Prodiamine	87.9		P	26 - 141
Prometon	114		P	54 - 122
Prometryn	119		P	61 - 128
Pronamide	96.7		P	72 - 121
Propanil	97.9		P	45 - 144
Propargite	76.2		P	10 - 199
Propiconazole	88.6		P	56 - 127
Pyraflufen Ethyl	93.9		P	56 - 140
Pyridaben	128		P	26 - 211
Pyriproxyfen	108		P	33 - 194
Simazine	86.4		P	67 - 121
Stirophos	61.5		P	20 - 142
Sulfentrazone	78.8		P	21 - 144
Tebuconazole	62.0		P	10 - 122
Terbufos	89.0		P	60 - 129
Terbutylazine	84.9		P	69 - 113
Tetradecachloro-m-terphenyl	123		P	70 - 200
Thiobencarb	71.0		P	51 - 120
Tri-o-cresyl Phosphate	124		P	49 - 150
Triadimefon	78.6		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	107		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	111		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	124		P	70 - 180

Reference Method: EPA 8321B

Batch ID: P431789

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	101		P	40 - 150
AMPA	117		P	40 - 150
Endothall	95.8		P	40 - 150
Glufosinate	94.9		P	40 - 150
Glyphosate	105		P	40 - 150
Sucralose	89.5		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P431897

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	103		P	40 - 150
2,4,5-T	95.1		P	40 - 150
Acetaminophen	87.0		P	30 - 150
Acetamiprid	74.5		P	40 - 150
Afidopyropen	68.2		P	30 - 150
Bentazon	102		P	30 - 150
Benzovindiflupyr	88.9		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P431897

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Carbamazepine	73.1		P	40 - 150
Clothianidin	90.6		P	40 - 150
Dinotefuran	91.2		P	40 - 150
Diuron	67.0		P	40 - 150
Fenuron	92.4		P	40 - 150
Fluridone	105		P	40 - 150
Hydrocodone	93.1		P	40 - 150
Ibuprofen	75.8		P	40 - 150
Imazapyr	94.2		P	40 - 150
Imidacloprid	85.9		P	40 - 150
Linuron	90.2		P	40 - 150
Mandestrobin	95.8		P	40 - 150
MCPP	116		P	40 - 150
Naproxen	87.8		P	40 - 150
Primidone	73.0		P	40 - 150
Pyraclostrobin	90.8		P	40 - 150
Silvex	113		P	40 - 150
Thiamethoxam	87.2		P	40 - 150
Tolfenpyrad	60.2		P	30 - 150
Triclopyr	103		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P432207

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	94.6		P	92 - 105

Reference Method: SM 2540 C-2015

Batch ID: P432261

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

Reference Method: SM 2540 D-2015

Batch ID: P432164

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	91.4		P	85 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P432209

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

Reference Method: SM 5310 B-2011

Batch ID: P432071

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P431939

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2420025	Calcium	110	104	P/P	80 - 120
2420025	Iron	109	106	P/P	80 - 120
2420025	Magnesium	111	109	P/P	80 - 120
2420025	Potassium	101	97.4	P/P	80 - 120
2420025	Sodium	105	99.9	P/P	80 - 120
2420025	Strontium	101	97.4	P/P	80 - 120
2420025	Tin	101	100	P/P	80 - 120
2420025	Titanium	106	105	P/P	80 - 120
2420025	Vanadium	103	101	P/P	80 - 120
2420025	Zinc	103	102	P/P	80 - 120
2420245	Calcium	99.0		P	80 - 120
2420245	Iron	107		P	80 - 120
2420245	Magnesium	107		P	80 - 120
2420245	Potassium	97.8		P	80 - 120
2420245	Sodium	94.7		P	80 - 120
2420245	Strontium	97.7		P	80 - 120
2420245	Tin	100		P	80 - 120
2420245	Titanium	103		P	80 - 120
2420245	Vanadium	102		P	80 - 120
2420245	Zinc	103		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P431939

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2420025	Aluminum	102	101	P/P	80 - 120
2420025	Antimony	104	103	P/P	80 - 120
2420025	Arsenic	100	99.5	P/P	80 - 120
2420025	Barium	105	104	P/P	80 - 120
2420025	Beryllium	97.0	99.2	P/P	80 - 120
2420025	Boron	104	104	P/P	80 - 120
2420025	Cadmium	102	102	P/P	80 - 120
2420025	Chromium	98.3	97.5	P/P	80 - 120
2420025	Cobalt	103	102	P/P	80 - 120
2420025	Copper	98.9	98.1	P/P	80 - 120
2420025	Lead	106	106	P/P	80 - 120
2420025	Manganese	100	98.7	P/P	80 - 120
2420025	Molybdenum	103	102	P/P	80 - 120
2420025	Nickel	97.6	97.4	P/P	80 - 120
2420025	Selenium	102	100	P/P	80 - 120
2420025	Silver	109	109	P/P	80 - 120
2420025	Thallium	103	104	P/P	80 - 120
2420245	Aluminum	102		P	80 - 120
2420245	Antimony	105		P	80 - 120
2420245	Arsenic	101		P	80 - 120
2420245	Barium	106		P	80 - 120
2420245	Beryllium	103		P	80 - 120
2420245	Boron	105		P	80 - 120
2420245	Cadmium	104		P	80 - 120
2420245	Chromium	97.0		P	80 - 120
2420245	Cobalt	101		P	80 - 120
2420245	Copper	97.0		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P431939

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2420245	Lead	106		P	80 - 120
2420245	Manganese	99.6		P	80 - 120
2420245	Molybdenum	102		P	80 - 120
2420245	Nickel	96.9		P	80 - 120
2420245	Selenium	103		P	80 - 120
2420245	Silver	108		P	80 - 120
2420245	Thallium	104		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432085

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2420055	Chloride	98.6		P	90 - 110
2420193	Chloride	97.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432088

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2420055	Sulfate	95.7		P	90 - 110
2420193	Sulfate	93.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432107

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2420194	Ammonia-N	95.8	97.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432014

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2420268	Kjeldahl Nitrogen	108	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432104

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2420237	NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431904

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2420188	Total-P	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P431892

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2420051	O-Phosphate-P	102	100	P/P	90 - 110

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P431788

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2419810	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	79.2	93.9	P/P	26 - 165
2419810	Acetochlor	66.2	83.0	F/P	67 - 124
2419810	Alachlor	70.9	75.8	P/P	60 - 120
2419810	Ametryn	136	131	P/P	54 - 216
2419810	Atrazine	58.2	82.8	F/P	66 - 128
2419810	Atrazine Desethyl	66.7	81.8	P/P	15 - 122
2419810	Avobenzone	97.6	93.3	P/P	37 - 178
2419810	Azinphos Methyl	69.9	107	P/P	40 - 292
2419810	Azoxystrobin	63.8	109	P/P	35 - 220
2419810	Bromacil	77.2	92.1	P/P	45 - 127
2419810	Butylate	40.2	54.8	P/P	20 - 83.0
2419810	Caffeine	127	123	P/P	10 - 194
2419810	Carbophenothion	75.9	107	P/P	57 - 127
2419810	Carfentrazone Ethyl	81.5	108	P/P	51 - 141
2419810	Chlorfenapyr	69.2	83.4	P/P	46 - 111
2419810	Chlorpyrifos Ethyl	54.1	70.7	P/P	52 - 120
2419810	Chlorpyrifos Methyl	59.6	74.8	F/P	63 - 119
2419810	Coumaphos	92.3	155	P/P	10 - 228
2419810	Cyanazine	111	137	P/P	59 - 241
2419810	Cyprodinil	66.6	83.2	P/P	47 - 146
2419810	Dechlorane 602	79.4	86.9	P/P	50 - 150
2419810	Dechlorane 603	114	120	P/P	50 - 150
2419810	Dechlorane Plus	68.9	62.2	P/P	50 - 150
2419810	Demeton	53.7	73.7	P/P	40 - 136
2419810	Diazinon	97.4	118	P/P	69 - 132
2419810	Difenoconazole	77.4	136	P/P	57 - 258
2419810	Dimethenamid	55.5	67.2	P/P	54 - 110
2419810	Dimethomorph	136	200	P/P	28 - 210
2419810	Disulfoton	75.4	86.2	P/P	43 - 133
2419810	Dithiopyr	73.7	89.2	P/P	39 - 116
2419810	EPTC	31.7	53.9	P/P	20 - 78.0
2419810	Ethion	51.0	64.1	P/P	17 - 119
2419810	Ethoprop	60.1	83.7	F/P	66 - 120
2419810	Etridiazole	50.2	72.3	P/P	28 - 96.0
2419810	Fenamiphos	77.2	72.9	P/P	41 - 126
2419810	Fenbuconazole	39.3	55.3	F/P	42 - 169
2419810	Fipronil	74.8	101	P/P	61 - 132
2419810	Fipronil Desulfinyl	57.2	94.1	P/P	56 - 132
2419810	Fipronil Sulfone	56.3	102	P/P	42 - 131
2419810	Fluazifop-P-butyl	53.7	72.3	P/P	53 - 131
2419810	Fludioxonil	55.1	69.9	F/P	56 - 127
2419810	Flumioxazin	119	184	P/P	19 - 300
2419810	Flutolanil	68.3	74.6	P/P	41 - 127
2419810	Fluxapyroxad	63.1	83.8	P/P	42 - 172
2419810	Fonofos	62.0	74.0	P/P	59 - 113
2419810	Hexabromobenzene	92.3	119	P/P	50 - 150
2419810	Hexazinone	49.7	91.4	F/P	66 - 122
2419810	Imazalil	102	101	P/P	21 - 283
2419810	Iprodione	69.5	81.7	P/P	43 - 150
2419810	Loratadine	97.0	178	P/P	23 - 201
2419810	Malathion	57.7	77.9	F/P	58 - 136
2419810	Metalaxyl	49.9	53.2	F/F	55 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P431788

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2419810	Metolachlor	65.2	88.6	P/P	57 - 121
2419810	Metribuzin	65.3	104	P/P	58 - 294
2419810	Mevinphos	55.1	87.7	P/P	50 - 126
2419810	Molinate	41.6	53.9	F/P	42 - 93.0
2419810	Myclobutanil	68.5	96.2	P/P	55 - 125
2419810	Naled	27.6	42.9	P/P	18 - 200
2419810	Napropamide	55.4	58.1	P/P	39 - 110
2419810	Norflurazon	64.5	91.1	P/P	48 - 128
2419810	Octinoxate	102	105	P/P	21 - 159
2419810	Oxybenzone	121	146	P/F	41 - 142
2419810	Oxyfluorfen	107	139	P/P	64 - 153
2419810	Parathion Ethyl	60.6	91.2	F/P	69 - 114
2419810	Parathion Methyl	59.9	79.2	F/P	79 - 139
2419810	PBB-153	104	120	P/P	50 - 150
2419810	PBDE-47	90.3	96.8	P/P	27 - 144
2419810	PBDE-99	76.4	89.4	P/P	18 - 150
2419810	Pendimethalin	80.4	104	P/P	50 - 139
2419810	Pentabromotoluene	92.1	102	P/P	50 - 150
2419810	Phenytoin	31.5	37.6	P/P	10 - 146
2419810	Phorate	69.1	90.4	P/P	54 - 161
2419810	Prodiamine	27.9	36.9	F/P	30 - 161
2419810	Prometon	44.1	48.1	F/P	45 - 134
2419810	Prometryn	84.9	100	P/P	45 - 137
2419810	Pronamide	82.2	101	P/P	65 - 133
2419810	Propanil	87.1	99.0	P/P	49 - 142
2419810	Propargite	34.0	38.5	P/P	10 - 203
2419810	Propiconazole	59.5	69.9	P/P	38 - 146
2419810	Pyraflufen Ethyl	72.8	91.4	P/P	34 - 153
2419810	Pyridaben	60.0	81.2	P/P	12 - 192
2419810	Pyriproxyfen	57.6	81.2	P/P	33 - 180
2419810	Simazine	56.3	81.5	P/P	51 - 157
2419810	Stirophos	46.4	55.0	P/P	10 - 128
2419810	Tebuconazole	41.5	42.8	P/P	10 - 133
2419810	Terbufos	76.6	97.9	P/P	65 - 139
2419810	Terbuthylazine	66.4	81.5	P/P	66 - 117
2419810	Tetradecachloro-m-terphenyl	98.4	80.8	P/P	70 - 200
2419810	Thiobencarb	68.6	81.9	P/P	51 - 119
2419810	Tri-o-cresyl Phosphate	107	111	P/P	31 - 144
2419810	Triadimefon	71.5	91.2	P/P	48 - 119
2419810	Tris(1-chloro-2-propyl) phosphate (TCPP)	97.1	87.9	P/P	50 - 150
2419810	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	107	123	P/P	50 - 150
2419810	Tris(2-chloroethyl) phosphate (TCEP)	129	132	P/P	70 - 180

Reference Method: EPA 8321B

Batch ID: P431789

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2419763	Acesulfame K	111	115	P/P	40 - 150
2419763	AMPA	130	124	P/P	40 - 150
2419763	Endothall	101	102	P/P	40 - 150
2419763	Glufosinate	90.3	90.8	P/P	40 - 150
2419763	Glyphosate	92.9	94.1	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P431789

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2419763	Sucralose	92.4	92.2	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P431897

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2420079	2,4-D	97.4	104	P/P	40 - 150
2420079	2,4,5-T	94.4	104	P/P	40 - 150
2420079	Acetaminophen	86.3	83.3	P/P	30 - 150
2420079	Acetamiprid	78.8	84.7	P/P	40 - 150
2420079	Afidopyropen	61.3	69.1	P/P	30 - 150
2420079	Bentazon	99.4	103	P/P	30 - 150
2420079	Benzovindiflupyr	89.7	94.5	P/P	40 - 150
2420079	Carbamazepine	66.9	69.6	P/P	40 - 150
2420079	Clothianidin	109	110	P/P	40 - 150
2420079	Dinotefuran	93.8	83.2	P/P	40 - 150
2420079	Diuron	64.2	29.9	P/F	40 - 150
2420079	Fenuron	79.7	77.0	P/P	40 - 150
2420079	Fluridone	101	104	P/P	40 - 150
2420079	Hydrocodone	87.1	87.0	P/P	40 - 150
2420079	Ibuprofen	79.0	79.6	P/P	40 - 150
2420079	Imazapyr	105	108	P/P	40 - 150
2420079	Imidacloprid	117	119	P/P	40 - 150
2420079	Linuron	64.2	67.3	P/P	40 - 150
2420079	Mandestrobin	88.5	93.7	P/P	40 - 150
2420079	MCPP	124	127	P/P	40 - 150
2420079	Naproxen	81.3	102	P/P	40 - 150
2420079	Primidone	79.1	71.4	P/P	40 - 150
2420079	Pyraclostrobin	88.8	88.6	P/P	40 - 150
2420079	Silvex	122	123	P/P	40 - 150
2420079	Thiamethoxam	88.2	91.3	P/P	40 - 150
2420079	Tolfenpyrad	59.6	61.6	P/P	30 - 150
2420079	Triclopyr	110	113	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P432209

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2420981	Fluoride	100	98.9	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P432071

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2419813	Organic Carbon	93.8	93.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P431888

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420159	Color (true)	0.347	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431890

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420158	Turbidity	0.729	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P431939

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420025	Calcium	4.24	Spike	P	0 - 20
2420025	Iron	2.11	Spike	P	0 - 20
2420025	Magnesium	2.18	Spike	P	0 - 20
2420025	Potassium	3.09	Spike	P	0 - 20
2420025	Sodium	3.52	Spike	P	0 - 20
2420025	Strontium	3.73	Spike	P	0 - 20
2420025	Tin	1.08	Spike	P	0 - 20
2420025	Titanium	1.19	Spike	P	0 - 20
2420025	Vanadium	1.25	Spike	P	0 - 20
2420025	Zinc	1.11	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P431939

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420025	Aluminum	0.388	Spike	P	0 - 20
2420025	Antimony	1.71	Spike	P	0 - 20
2420025	Arsenic	0.900	Spike	P	0 - 20
2420025	Barium	1.19	Spike	P	0 - 20
2420025	Beryllium	2.18	Spike	P	0 - 20
2420025	Boron	0.722	Spike	P	0 - 20
2420025	Cadmium	0.398	Spike	P	0 - 20
2420025	Chromium	0.783	Spike	P	0 - 20
2420025	Cobalt	1.09	Spike	P	0 - 20
2420025	Copper	0.777	Spike	P	0 - 20
2420025	Lead	0.0775	Spike	P	0 - 20
2420025	Manganese	1.41	Spike	P	0 - 20
2420025	Molybdenum	0.983	Spike	P	0 - 20
2420025	Nickel	0.185	Spike	P	0 - 20
2420025	Selenium	1.60	Spike	P	0 - 20
2420025	Silver	0.741	Spike	P	0 - 20
2420025	Thallium	0.250	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432085

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420055	Chloride	0.958	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432088

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420055	Sulfate	0.997	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432107

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420194	Ammonia-N	1.89	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432014

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420268	Kjeldahl Nitrogen	2.35	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432104

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420237	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431904

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420188	Total-P	0.563	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P431892

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420051	O-Phosphate-P	1.32	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P431788

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2419810	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	16.9	Spike	P	0 - 37
2419810	Acetochlor	22.5	Spike	P	0 - 28

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P431788

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2419810	Alachlor	6.65	Spike	P	0 - 30
2419810	Ametryn	3.29	Spike	P	0 - 32
2419810	Atrazine	28.8	Spike	P	0 - 41
2419810	Atrazine Desethyl	20.2	Spike	P	0 - 36
2419810	Avobenzone	4.47	Spike	P	0 - 36
2419810	Azinphos Methyl	41.9	Spike	P	0 - 75
2419810	Azoxystrobin	51.9	Spike	F	0 - 39
2419810	Bromacil	17.7	Spike	P	0 - 33
2419810	Butylate	30.9	Spike	P	0 - 44
2419810	Caffeine	3.48	Spike	P	0 - 74
2419810	Carbophenothion	33.8	Spike	F	0 - 25
2419810	Carfentrazone Ethyl	27.9	Spike	F	0 - 27
2419810	Chlorfenapyr	18.6	Spike	P	0 - 24
2419810	Chlorpyrifos Ethyl	26.7	Spike	F	0 - 26
2419810	Chlorpyrifos Methyl	22.7	Spike	P	0 - 26
2419810	Coumaphos	50.6	Spike	F	0 - 28
2419810	Cyanazine	21.0	Spike	P	0 - 48
2419810	Cyprodinil	22.1	Spike	P	0 - 29
2419810	Dechlorane 602	8.94	Spike	P	0 - 30
2419810	Dechlorane 603	5.34	Spike	P	0 - 30
2419810	Dechlorane Plus	10.1	Spike	P	0 - 30
2419810	Demeton	31.3	Spike	P	0 - 33
2419810	Diazinon	18.8	Spike	P	0 - 29
2419810	Difenoconazole	55.0	Spike	F	0 - 34
2419810	Dimethenamid	19.0	Spike	P	0 - 39
2419810	Dimethomorph	38.1	Spike	P	0 - 51
2419810	Disulfoton	13.4	Spike	P	0 - 30
2419810	Dithiopyr	19.1	Spike	P	0 - 26
2419810	EPTC	51.8	Spike	F	0 - 43
2419810	Ethion	22.7	Spike	P	0 - 79
2419810	Ethoprop	32.8	Spike	F	0 - 29
2419810	Etridiazole	36.1	Spike	F	0 - 33
2419810	Fenamiphos	5.74	Spike	P	0 - 40
2419810	Fenbuconazole	33.8	Spike	P	0 - 74
2419810	Fipronil	27.8	Spike	P	0 - 29
2419810	Fipronil Desulfinyl	22.7	Spike	P	0 - 32
2419810	Fipronil Sulfide	13.8	Spike	P	0 - 30
2419810	Fipronil Sulfone	27.6	Spike	P	0 - 33
2419810	Fluazifop-P-butyl	29.4	Spike	P	0 - 38
2419810	Fludioxonil	23.7	Spike	P	0 - 29
2419810	Flumioxazin	42.7	Spike	P	0 - 51
2419810	Flutolanil	8.87	Spike	P	0 - 25
2419810	Fluxapyroxad	28.1	Spike	P	0 - 45
2419810	Fonofos	17.7	Spike	P	0 - 27
2419810	Hexabromobenzene	25.7	Spike	P	0 - 30
2419810	Hexazinone	35.3	Spike	F	0 - 30
2419810	Imazalil	0.743	Spike	P	0 - 100
2419810	Iprodione	16.2	Spike	P	0 - 33
2419810	Loratadine	59.1	Spike	F	0 - 56
2419810	Malathion	29.7	Spike	P	0 - 37
2419810	Metalaxyl	6.39	Spike	P	0 - 40

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P431788

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2419810	Metolachlor	30.5	Spike	F	0 - 29
2419810	Metribuzin	46.2	Spike	F	0 - 45
2419810	Mevinphos	45.7	Spike	F	0 - 29
2419810	Molinate	25.6	Spike	P	0 - 33
2419810	Myclobutanil	33.6	Spike	F	0 - 26
2419810	Naled	43.3	Spike	F	0 - 37
2419810	Napropamide	4.63	Spike	P	0 - 44
2419810	Norflurazon	34.2	Spike	F	0 - 30
2419810	Octinoxate	2.70	Spike	P	0 - 45
2419810	Oxadiazon	25.2	Spike	P	0 - 28
2419810	Oxybenzone	18.5	Spike	P	0 - 46
2419810	Oxyfluorfen	26.7	Spike	P	0 - 28
2419810	Parathion Ethyl	40.3	Spike	F	0 - 31
2419810	Parathion Methyl	27.8	Spike	P	0 - 29
2419810	PBB-153	13.7	Spike	P	0 - 30
2419810	PBDE-47	7.01	Spike	P	0 - 36
2419810	PBDE-99	15.7	Spike	P	0 - 40
2419810	Pendimethalin	25.3	Spike	P	0 - 33
2419810	Pentabromotoluene	10.1	Spike	P	0 - 30
2419810	Phenytoin	17.8	Spike	P	0 - 100
2419810	Phorate	26.8	Spike	P	0 - 36
2419810	Prodiamine	27.8	Spike	P	0 - 71
2419810	Prometon	8.68	Spike	P	0 - 36
2419810	Prometryn	16.6	Spike	P	0 - 28
2419810	Pronamide	19.6	Spike	P	0 - 24
2419810	Propanil	12.8	Spike	P	0 - 28
2419810	Propargite	12.3	Spike	P	0 - 43
2419810	Propiconazole	16.0	Spike	P	0 - 33
2419810	Pyraflufen Ethyl	22.6	Spike	P	0 - 29
2419810	Pyridaben	20.0	Spike	P	0 - 30
2419810	Pyriproxyfen	34.0	Spike	P	0 - 79
2419810	Simazine	36.6	Spike	F	0 - 29
2419810	Stirophos	17.0	Spike	P	0 - 61
2419810	Sulfentrazone	26.2	Spike	P	0 - 33
2419810	Tebuconazole	3.06	Spike	P	0 - 69
2419810	Terbufos	24.3	Spike	P	0 - 29
2419810	Terbuthylazine	20.4	Spike	P	0 - 32
2419810	Tetradecachloro-m-terphenyl	19.7	Spike	P	0 - 30
2419810	Thiobencarb	17.6	Spike	P	0 - 26
2419810	Tri-o-cresyl Phosphate	3.32	Spike	P	0 - 33
2419810	Triadimefon	24.2	Spike	P	0 - 28
2419810	Tris(1-chloro-2-propyl) phosphate (TCPP)	9.13	Spike	P	0 - 30
2419810	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	14.1	Spike	P	0 - 30
2419810	Tris(2-chloroethyl) phosphate (TCEP)	2.23	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P431789

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2419763	Acesulfame K	3.19	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8321B

Batch ID: P431789

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2419763	AMPA	4.05	Spike	P	0 - 30
2419763	Endothall	1.23	Spike	P	0 - 30
2419763	Glufosinate	0.600	Spike	P	0 - 30
2419763	Glyphosate	1.25	Spike	P	0 - 30
2419763	Sucralose	0.215	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P431897

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420079	2,4-D	5.29	Spike	P	0 - 30
2420079	2,4,5-T	9.54	Spike	P	0 - 30
2420079	Acetaminophen	3.48	Spike	P	0 - 30
2420079	Acetamiprid	7.26	Spike	P	0 - 30
2420079	Afidopyropen	11.9	Spike	P	0 - 30
2420079	Bentazon	3.19	Spike	P	0 - 30
2420079	Benzovindiflupyr	5.20	Spike	P	0 - 30
2420079	Carbamazepine	3.95	Spike	P	0 - 30
2420079	Clothianidin	1.70	Spike	P	0 - 30
2420079	Dinotefuran	12.0	Spike	P	0 - 30
2420079	Diuron	72.9	Spike	F	0 - 30
2420079	Fenuron	3.46	Spike	P	0 - 30
2420079	Fluridone	2.38	Spike	P	0 - 30
2420079	Hydrocodone	0.208	Spike	P	0 - 30
2420079	Ibuprofen	0.751	Spike	P	0 - 30
2420079	Imazapyr	2.44	Spike	P	0 - 30
2420079	Imidacloprid	1.68	Spike	P	0 - 30
2420079	Linuron	4.66	Spike	P	0 - 30
2420079	Mandestrobin	5.67	Spike	P	0 - 30
2420079	MCPP	3.08	Spike	P	0 - 30
2420079	Naproxen	22.4	Spike	P	0 - 30
2420079	Primidone	10.2	Spike	P	0 - 30
2420079	Pyraclostrobin	0.237	Spike	P	0 - 30
2420079	Silvex	0.757	Spike	P	0 - 30
2420079	Thiamethoxam	3.46	Spike	P	0 - 30
2420079	Tolfenpyrad	3.27	Spike	P	0 - 30
2420079	Triclopyr	2.05	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P432207

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420981	Total Alkalinity	1.95	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015

Batch ID: P432261

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: P432261

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420164	TDS	2.49	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P432209

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420981	Fluoride	1.05	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P432071

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2419813	Organic Carbon	0.136	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2420244
Field Sample ID: G2CE0104

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	127	P	30 - 160
EPA 8321B	Acetaminophen-d4	76.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	53.1	P	30 - 160
EPA 8321B	Diuron-d6	49.0	P	30 - 160
EPA 8321B	Endothall-d6	112	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	93.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	68.2	P	30 - 160
EPA 8321B	Primidone-d5	91.1	P	30 - 160
EPA 8321B	Sucralose-d6	81.2	P	30 - 160

Lab Sample ID: 2420246
Field Sample ID: G2CE0104

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	69.4	P	20 - 200
EPA 8270E	Simazine-d10	88.1	P	62 - 142
EPA 8270E	Terbufos-d10	80.6	P	58 - 132
EPA 8270E	Terphenyl-d14	89.4	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A120075

Included Lab Sample IDs: 2420236

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A120077

Included Lab Sample IDs: 2420236

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A120079

Included Lab Sample IDs: 2420238

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.2	98.8	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A120145

Included Lab Sample IDs: 2420245

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	102	102	P/P	90 - 110
Antimony	103	102	P/P	90 - 110
Arsenic	101	100	P/P	90 - 110
Barium	103	103	P/P	90 - 110
Beryllium	100	99.4	P/P	90 - 110
Boron	99.1	99.3	P/P	90 - 110
Cadmium	104	103	P/P	90 - 110
Chromium	99.8	99.3	P/P	90 - 110
Cobalt	104	103	P/P	90 - 110
Copper	98.1	96.6	P/P	90 - 110
Lead	106	105	P/P	90 - 110
Manganese	101	102	P/P	90 - 110
Molybdenum	103	101	P/P	90 - 110
Nickel	98.6	97.9	P/P	90 - 110
Selenium	103	102	P/P	90 - 110
Silver	108	107	P/P	90 - 110
Thallium	103	102	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A120150

Included Lab Sample IDs: 2420244

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	129	135	P/P	60 - 160
Sucralose	83.0	86.4	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A120153
Included Lab Sample IDs: 2420244

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	134	136	P/P	60 - 160
Endothall	98.0	99.7	P/P	60 - 160
Glufosinate	104	103	P/P	60 - 160
Glyphosate	113	108	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A120154
Included Lab Sample IDs: 2420244

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	82.9	86.3	P/P	50 - 150
2,4,5-T	85.3	92.7	P/P	50 - 150
Acetaminophen	90.6	84.6	P/P	60 - 160
Acetamiprid	103	103	P/P	50 - 150
Afidopyropen	98.7	90.0	P/P	50 - 150
Bentazon	123	115	P/P	50 - 160
Benzovindiflupyr	117	117	P/P	50 - 150
Carbamazepine	102	104	P/P	60 - 150
Clothianidin	105	107	P/P	60 - 150
Dinotefuran	110	97.2	P/P	50 - 150
Diuron	115	96.3	P/P	60 - 160
Fenuron	104	104	P/P	60 - 150
Fluridone	114	117	P/P	60 - 160
Hydrocodone	107	109	P/P	60 - 150
Ibuprofen	79.2	113	P/P	50 - 160
Imazapyr	103	96.1	P/P	50 - 150
Imidacloprid	95.5	97.1	P/P	60 - 150
Linuron	113	98.3	P/P	60 - 150
Mandestrobin	119	111	P/P	50 - 150
MCPP	85.7	82.7	P/P	50 - 150
Naproxen	133	91.3	P/P	50 - 160
Primidone	89.9	84.1	P/P	60 - 150
Pyraclostrobin	116	115	P/P	60 - 150
Silvex	83.3	82.7	P/P	50 - 150
Thiamethoxam	107	105	P/P	50 - 150
Tolfenpyrad	107	101	P/P	60 - 150
Triclopyr	86.5	84.5	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A120159
Included Lab Sample IDs: 2420237

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

Reference Method: SM 5310 B-2011
Run ID: A120177
Included Lab Sample IDs: 2420237

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.8	97.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A120184

Included Lab Sample IDs: 2420236

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	106	106	P/P	90 - 110
Sulfate	103	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A120185

Included Lab Sample IDs: 2420237

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.3	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A120188

Included Lab Sample IDs: 2420237

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A120189

Included Lab Sample IDs: 2420237

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.8	98.4	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A120207

Included Lab Sample IDs: 2420245

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	108	97.7	P/P	90 - 110
Iron	109	98.1	P/P	90 - 110
Magnesium	109	98.6	P/P	90 - 110
Potassium	104	95.0	P/P	90 - 110
Sodium	104	93.5	P/P	90 - 110
Strontium	108	95.0	P/P	90 - 110
Tin	108	98.6	P/P	90 - 110
Titanium	107	98.4	P/P	90 - 110
Vanadium	106	97.5	P/P	90 - 110
Zinc	108	101	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A120243

Included Lab Sample IDs: 2420236

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	94.4	95.9	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500-F- C-2011

Run ID: A120243

Included Lab Sample IDs: 2420236

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

Reference Method: EPA 8270E

Run ID: A120246

Included Lab Sample IDs: 2420246

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	86.7		P	80 - 120
Avobenzone	93.6		P	80 - 120
Dechlorane 602	97.9		P	80 - 120
Dechlorane 603	86.5		P	80 - 120
Dechlorane Plus	91.8		P	80 - 120
Hexabromobenzene	86.0		P	80 - 120
Octinoxate	93.4		P	80 - 120
Oxybenzone	92.6		P	80 - 120
PBB-153	85.3		P	80 - 120
PBDE-47	88.6		P	80 - 120
PBDE-99	88.7		P	80 - 120
Pentabromotoluene	96.4		P	80 - 120
Tetradecachloro-m-terphenyl	91.6		P	80 - 120
Tri-o-cresyl Phosphate	95.1		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	100		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	93.7		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	96.5		P	80 - 120

Reference Method: EPA 8270E

Run ID: A120359

Included Lab Sample IDs: 2420246

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	89.6		P	80 - 120
Alachlor	90.0		P	80 - 120
Ametryn	103		P	80 - 120
Atrazine	93.8		P	80 - 120
Atrazine Desethyl	97.0		P	80 - 120
Azinphos Methyl	101		P	80 - 120
Azoxystrobin	100		P	80 - 120
Bromacil	98.1		P	80 - 120
Butylate	98.7		P	80 - 120
Caffeine	85.1		P	80 - 120
Carbophenothion	103		P	80 - 120
Carfentrazone Ethyl	102		P	80 - 120
Chlorfenapyr	86.9		P	80 - 120
Chlorpyrifos Ethyl	89.0		P	80 - 120
Chlorpyrifos Methyl	102		P	80 - 120
Coumaphos	100		P	80 - 120
Cyanazine	95.3		P	80 - 120
Cyprodinil	95.4		P	80 - 120
Demeton	101		P	80 - 120
Diazinon	96.3		P	80 - 120
Difenoconazole	110		P	80 - 120

Quality Assurance Report

Calibration Verification

Reference Method: EPA 8270E
 Run ID: A120359
 Included Lab Sample IDs: 2420246

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dimethenamid	99.1		P	80 - 120
Dimethomorph	98.9		P	80 - 120
Disulfoton	94.3		P	80 - 120
Dithiopyr	94.5		P	80 - 120
EPTC	102		P	80 - 120
Ethion	87.2		P	80 - 120
Ethoprop	103		P	80 - 120
Etridiazole	97.5		P	80 - 120
Fenamiphos	90.1		P	80 - 120
Fenbuconazole	89.0		P	80 - 120
Fipronil	87.7		P	80 - 120
Fipronil Desulfinyl	102		P	80 - 120
Fipronil Sulfide	104		P	80 - 120
Fipronil Sulfone	100		P	80 - 120
Fluazifop-P-butyl	109		P	80 - 120
Fludioxonil	94.1		P	80 - 120
Flumioxazin	106		P	80 - 120
Flutolanil	97.9		P	80 - 120
Fluxapyroxad	98.5		P	80 - 120
Fonofos	95.6		P	80 - 120
Hexazinone	98.6		P	80 - 120
Imazalil	93.6		P	80 - 120
Iprodione	66.6*		F	80 - 120
Loratadine	101		P	80 - 120
Malathion	82.9		P	80 - 120
Metalaxyl	86.7		P	80 - 120
Metolachlor	96.6		P	80 - 120
Metribuzin	95.0		P	80 - 120
Mevinphos	98.4		P	80 - 120
Molinate	86.3		P	80 - 120
Myclobutanil	82.9		P	80 - 120
Naled	94.8		P	80 - 120
Napropamide	98.8		P	80 - 120
Norflurazon	99.8		P	80 - 120
Oxadiazon	96.2		P	80 - 120
Oxyfluorfen	101		P	80 - 120
Parathion Ethyl	98.3		P	80 - 120
Parathion Methyl	89.8		P	80 - 120
Pendimethalin	103		P	80 - 120
Phenytol	112		P	80 - 120
Phorate	90.4		P	80 - 120
Prodiamine	91.0		P	80 - 120
Prometon	101		P	80 - 120
Prometryn	105		P	80 - 120
Pronamide	97.9		P	80 - 120
Propanil	94.2		P	80 - 120
Propargite	98.6		P	80 - 120
Propiconazole	83.9		P	80 - 120
Pyraflufen Ethyl	94.7		P	80 - 120
Pyridaben	99.7		P	80 - 120
Pyriproxyfen	99.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A120359
Included Lab Sample IDs: 2420246

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Simazine	88.8		P	80 - 120
Stirophos	91.0		P	80 - 120
Sulfentrazone	104		P	80 - 120
Tebuconazole	97.0		P	80 - 120
Terbufos	96.4		P	80 - 120
Terbutylazine	82.6		P	80 - 120
Thiobencarb	97.7		P	80 - 120
Triadimefon	98.2		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			Precision SMP	MS
			LCS				
DEP SOP: NU-094-1	Color (true)	98.8				0.347	
EPA 180.1 Rev. 2.0	Turbidity	100				0.729	
EPA 200.7 Rev. 4.4	Calcium	100	110	104	99.0		4.24
	Iron	104	109	106	107		2.11
	Magnesium	106	111	109	107		2.18
	Potassium	96.0	101	97.4	97.8		3.09
	Sodium	97.0	105	99.9	94.7		3.52
	Strontium	95.4	101	97.4	97.7		3.73
	Tin	96.0	101	100	100		1.08
	Titanium	99.1	106	105	103		1.19
	Vanadium	96.5	103	101	102		1.25
	Zinc	97.7	103	102	103		1.11
EPA 200.8 Rev. 5.4	Aluminum	101	102	101	102		0.388
	Antimony	103	104	103	105		1.71
	Arsenic	101	100	99.5	101		0.900
	Barium	105	105	104	106		1.19
	Beryllium	96.4	97.0	99.2	103		2.18
	Boron	107	104	104	105		0.722
	Cadmium	103	102	102	104		0.398
	Chromium	97.4	98.3	97.5	97.0		0.783
	Cobalt	104	103	102	101		1.09
	Copper	98.2	98.9	98.1	97.0		0.777
	Lead	106	106	106	106		0.0775
	Manganese	100	99.6	100	98.7		1.41
	Molybdenum	102	103	102	102		0.983
	Nickel	98.1	97.6	97.4	96.9		0.185
	Selenium	102	102	100	103		1.60
	Silver	110	109	109	108		0.741
	Thallium	101	103	104	104		0.250
EPA 300.0 Rev. 2.1	Chloride	97.0	98.6	97.6		0.958	
	Sulfate	94.2	93.7	95.7		0.997	
EPA 350.1 Rev. 2.0	Ammonia-N	93.6	95.8	97.8			1.89
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.4	108	104			2.35
EPA 353.2 Rev. 2.0	NO2NO3-N	102	102	102			0.0
EPA 365.1 Rev. 2.0	Total-P	101	102	102			0.563
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	104	102	100			1.32
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	126	79.2	93.9			16.9
	Acetochlor	78.9	66.2	83.0			22.5
	Alachlor	87.2	70.9	75.8			6.65
	Ametryn	113	136	131			3.29
	Atrazine	89.0	58.2	82.8			28.8
	Atrazine Desethyl	85.4	81.8	66.7			20.2
	Avobenzone	139	97.6	93.3			4.47
	Azinphos Methyl	152	107	69.9			41.9
	Azoxystrobin	100	109	63.8			51.9
	Bromacil	86.4	92.1	77.2			17.7
	Butylate	51.0	54.8	40.2			30.9
	Caffeine	104	123	127			3.48
	Carbophenothion	97.4	107	75.9			33.8
	Carfentrazone Ethyl	103	108	81.5			27.9
	Chlorfenapyr	83.3	83.4	69.2			18.6
	Chlorpyrifos Ethyl	86.3	70.7	54.1			26.7

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Chlorpyrifos Methyl	102	74.8	59.6			22.7
	Coumaphos	143	155	92.3			50.6
	Cyanazine	128	137	111			21.0
	Cyprodinil	90.1	83.2	66.6			22.1
	Dechlorane 602	126	79.4	86.9			8.94
	Dechlorane 603	144	114	120			5.34
	Dechlorane Plus	108	68.9	62.2			10.1
	Demeton	78.9	53.7	73.7			31.3
	Diazinon	91.7	97.4	118			18.8
	Difenoconazole	185	77.4	136			55.0
	Dimethenamid	89.7	55.5	67.2			19.0
	Dimethomorph	95.2	136	200			38.1
	Disulfoton	80.7	75.4	86.2			13.4
	Dithiopyr	81.6	73.7	89.2			19.1
	EPTC	46.8	31.7	53.9			51.8
	Ethion	76.2	51.0	64.1			22.7
	Ethoprop	81.6	60.1	83.7			32.8
	Etridiazole	57.2	50.2	72.3			36.1
	Fenamiphos	88.4	77.2	72.9			5.74
	Fenbuconazole	102	39.3	55.3			33.8
	Fipronil	84.6	74.8	101			27.8
	Fipronil Desulfinyl	85.2	57.2	94.1			22.7
	Fipronil Sulfide	94.2					13.8
	Fipronil Sulfone	92.1	56.3	102			27.6
	Fluazifop-P-butyl	86.4	53.7	72.3			29.4
	Fludioxonil	86.3	55.1	69.9			23.7
	Flumioxazin	181	119	184			42.7
	Flutolanil	94.6	68.3	74.6			8.87
	Fluxapyroxad	89.8	63.1	83.8			28.1
	Fonofos	90.9	62.0	74.0			17.7
	Hexabromobenzene	131	92.3	119			25.7
	Hexazinone	91.9	49.7	91.4			35.3
	Imazalil	90.8	102	101			0.743
	Iprodione	54.7	69.5	81.7			16.2
	Loratadine	190	97.0	178			59.1
	Malathion	87.1	57.7	77.9			29.7
	Metalaxyl	80.5	49.9	53.2			6.39
	Metolachlor	96.0	65.2	88.6			30.5
	Metribuzin	88.2	65.3	104			46.2
	Mevinphos	83.1	55.1	87.7			45.7
	Molinate	51.9	41.6	53.9			25.6
	Myclobutanil	82.5	68.5	96.2			33.6
	Naled	43.2	27.6	42.9			43.3
	Napropamide	86.6	55.4	58.1			4.63
	Norflurazon	85.7	64.5	91.1			34.2
	Octinoxate	124	102	105			2.70
	Oxadiazon	79.3					25.2
	Oxybenzone	126	121	146			18.5
	Oxyfluorfen	104	107	139			26.7
	Parathion Ethyl	91.9	60.6	91.2			40.3
	Parathion Methyl	93.0	59.9	79.2			27.8
	PBB-153	151	104	120			13.7
	PBDE-47	119	90.3	96.8			7.01
	PBDE-99	116	76.4	89.4			15.7

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Pendimethalin	90.8	80.4	104		25.3
	Pentabromotoluene	117	92.1	102		10.1
	Phenytoln	31.7	31.5	37.6		17.8
	Phorate	88.2	69.1	90.4		26.8
	Prodiamine	87.9	27.9	36.9		27.8
	Prometon	114	44.1	48.1		8.68
	Prometryn	119	84.9	100		16.6
	Pronamide	96.7	82.2	101		19.6
	Propanil	97.9	87.1	99.0		12.8
	Propargite	76.2	34.0	38.5		12.3
	Propiconazole	88.6	59.5	69.9		16.0
	Pyraflufen Ethyl	93.9	72.8	91.4		22.6
	Pyridaben	128	60.0	81.2		20.0
	Pyriproxyfen	108	57.6	81.2		34.0
	Simazine	86.4	81.5	56.3		36.6
	Stiropfos	61.5	55.0	46.4		17.0
	Sulfentrazone	78.8				26.2
	Tebuconazole	62.0	42.8	41.5		3.06
	Terbufos	89.0	97.9	76.6		24.3
	Terbutylazine	84.9	81.5	66.4		20.4
	Tetradecachloro-m-terphenyl	123	98.4	80.8		19.7
	Thiobencarb	71.0	81.9	68.6		17.6
	Tri-o-cresyl Phosphate	124	107	111		3.32
	Triadimefon	78.6	91.2	71.5		24.2
	Tris(1-chloro-2-propyl) phosphate (TCPP)	107	97.1	87.9		9.13
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	111	107	123		14.1
	Tris(2-chloroethyl) phosphate (TCEP)	124	129	132		2.23
EPA 8321B	2,4-D	103	97.4	104		5.29
	2,4,5-T	95.1	94.4	104		9.54
	Acesulfame K	101	111	115		3.19
	Acetaminophen	87.0	86.3	83.3		3.48
	Acetamiprid	74.5	78.8	84.7		7.26
	Afidopyropen	68.2	61.3	69.1		11.9
	AMPA	117	130	124		4.05
	Bentazon	102	99.4	103		3.19
	Benzovindiflupyr	88.9	89.7	94.5		5.20
	Carbamazepine	73.1	66.9	69.6		3.95
	Clothianidin	90.6	109	110		1.70
	Dinotefuran	91.2	93.8	83.2		12.0
	Diuron	67.0	64.2	29.9		72.9
	Endothall	95.8	101	102		1.23
	Fenuron	92.4	79.7	77.0		3.46
	Fluridone	105	101	104		2.38
	Glufosinate	94.9	90.3	90.8		0.600
	Glyphosate	105	92.9	94.1		1.25
	Hydrocodone	93.1	87.1	87.0		0.208
	Ibuprofen	75.8	79.0	79.6		0.751
	Imazapyr	94.2	105	108		2.44
	Imidacloprid	85.9	117	119		1.68
	Linuron	90.2	64.2	67.3		4.66
	Mandestrobin	95.8	88.5	93.7		5.67

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	MCCP	116	124	127		3.08
	Naproxen	87.8	81.3	102		22.4
	Primidone	73.0	79.1	71.4		10.2
	Pyraclostrobin	90.8	88.8	88.6		0.237
	Silvex	113	122	123		0.757
	Sucralose	89.5	92.4	92.2		0.215
	Thiamethoxam	87.2	88.2	91.3		3.46
	Tolfenpyrad	60.2	59.6	61.6		3.27
	Triclopyr	103	110	113		2.05
SM 2320 B-2011	Total Alkalinity	94.6			1.95	
SM 2540 C-2015	TDS	97.1			2.49	
SM 2540 D-2015	TSS	91.4				
SM 4500-F- C-2011	Fluoride	98.1	98.9	100		1.05
SM 5310 B-2011	Organic Carbon	95.2	93.8	93.6		0.136

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2420236
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2420236
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2420245
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2420245
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2420236
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2420236
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2420237
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2420237
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2420237
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2420237
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2420238
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2420246
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2420246
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2420244
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2420236
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2420245
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2420236
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2420236
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2420236
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2420237

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	06/28/2023			06/28/2023 14:50	Alexis Price	2420236
EPA 180.1 Rev. 2.0	06/28/2023			06/28/2023 13:29	Alexis Price	2420236
EPA 200.7 Rev. 4.4	06/28/2023	06/29/2023 11:55	George D Taylor	07/06/2023 15:37	Chase Roberts	2420245
EPA 200.8 Rev. 5.4	06/28/2023	06/29/2023 11:55	George D Taylor	06/30/2023 16:59	Conrad Hartmann	2420245
EPA 300.0 Rev. 2.1	06/28/2023			07/05/2023 22:26	James L Waggeberby	2420236
EPA 350.1 Rev. 2.0	06/28/2023			07/06/2023 11:22	Khloe J Berg	2420237
EPA 351.2 Rev. 2.0	06/28/2023	07/05/2023 16:53	Ping Hua	07/06/2023 10:45	Ping Hua	2420237
EPA 353.2 Rev. 2.0	06/28/2023			07/06/2023 09:48	Beverly Y. Sanders	2420237
EPA 365.1 Rev. 2.0	06/28/2023	06/29/2023 16:14	Adam P Silver	07/05/2023 13:21	James L Waggeberby	2420237
EPA 365.1 Rev. 2.0 dissolved	06/28/2023			06/28/2023 16:04	Elise M. Gillis	2420238
EPA 8270E	06/28/2023	06/29/2023 08:00	Fe-Val Siddell	06/30/2023 17:25	Vandana T. Nagar	2420246
	06/28/2023	06/29/2023 08:00	Fe-Val Siddell	07/07/2023 20:23	Arthur Maknenko	2420246
EPA 8321B	06/28/2023	06/29/2023 16:00	Hana Lee	06/30/2023 22:16	Tae K Lee	2420244
	06/28/2023	06/29/2023 16:00	Hana Lee	07/01/2023 19:28	Tae K Lee	2420244
	06/28/2023	06/30/2023 09:00	Hoor Shaik	07/01/2023 03:12	Juyoung Kim	2420244
	06/28/2023	06/30/2023 09:00	Hoor Shaik	07/05/2023 10:44	Juyoung Kim	2420244
SM 2320 B-2011	06/28/2023			07/07/2023 01:28	Dale L. Simmons	2420236
SM 2340 B-2011	06/28/2023			07/06/2023 15:37	Chase Roberts	2420245
SM 2540 C-2015	06/28/2023			06/29/2023 12:56	Dana G. Hughes	2420236
SM 2540 D-2015	06/28/2023			06/29/2023 12:56	Dana G. Hughes	2420236
SM 4500-F- C-2011	06/28/2023			07/07/2023 01:28	Dale L. Simmons	2420236
SM 5310 B-2011	06/28/2023			07/06/2023 00:08	Elise M. Gillis	2420237