

Chemical Analysis Report

CEN-DIST-2023-06-01-01

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

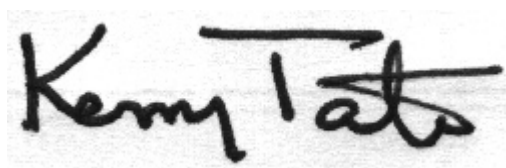
Event Description: **Run 11 Plus Lorna Doone LVI**
Request ID: **RQ-2023-05-29-21**
Customer: **CEN-DIST**
Project ID: **SMP**

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: 23-JUN-2023 09:35

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 LORNA DOONE AT CENTER

Collection Date/Time: 05/31/2023 13:00

Field ID: G4CE0239

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2413802	DEP SOP: NU-094-1	Color (true)	17	A	PCU	P430696	
	EPA 180.1 Rev. 2.0	Turbidity	5.0		NTU	P430699	
	EPA 300.0 Rev. 2.1	Chloride	8.9		mg Cl/L	P430853	
		Sulfate	5.7		mg SO4/L	P430855	
	SM 2320 B-2011	Total Alkalinity	48		mg CaCO3/L	P430931	
	SM 2540 C-2015	TDS	86		mg/L	P431042	
	SM 2540 D-2015	TSS	4	I	mg/L	P431015	
2413803	SM 4500-F- C-2011	Fluoride	0.058	I	mg F/L	P430934	MS
	EPA 350.1 Rev. 2.0	Ammonia-N	0.015		mg N/L	P430816	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P431115	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P430908	
	EPA 365.1 Rev. 2.0	Total-P	0.046		mg P/L	P430718	
2413804	SM 5310 B-2011	Organic Carbon	8.5		mg C/L	P430953	
2413811	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P430689	
	EPA 8321B	2,4-D	1.3		ug/L	P430649	
		Acesulfame K	0.11	I	ug/L	P430640	
		2,4,5-T	0.0040	U	ug/L	P430649	
		AMPA	0.12	I	ug/L	P430640	
		Acetaminophen	0.0080	U	ug/L	P430649	
		Acetamiprid	0.0020	U	ug/L	P430649	
		Endothall	0.25	U	ug/L	P430640	
		Glufosinate	0.10	U	ug/L	P430640	
		Glyphosate	5.1		ug/L	P430640	
		Afidopyropen	0.0020	U	ug/L	P430649	
		Bentazon	0.014		ug/L	P430649	
		Sucralose	0.10		ug/L	P430640	
		Benzovindiflupyr	0.0020	U	ug/L	P430649	
		Carbamazepine	8.0E-04	U	ug/L	P430649	
		Clothianidin	0.0020	U	ug/L	P430649	
		Dinotefuran	0.0020	U	ug/L	P430649	
		Diuron	0.020		ug/L	P430649	
		Fenuron	0.032	U	ug/L	P430649	
		Fluridone	0.0030	I	ug/L	P430649	
		Imazapyr	0.027		ug/L	P430649	
		Hydrocodone	0.0020	U	ug/L	P430649	
		Ibuprofen	0.080	UJ	ug/L	P430649	CCV
		Imidacloprid	0.0020	U	ug/L	P430649	
		Linuron	0.0040	U	ug/L	P430649	
		Mandestrobin	0.0020	U	ug/L	P430649	
		MCPD	0.0020	U	ug/L	P430649	
		Naproxen	0.0080	U	ug/L	P430649	
		Primidone	0.0040	U	ug/L	P430649	
		Pyraclostrobin	0.0020	U	ug/L	P430649	

Field ID: G4CE0239

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2413811	EPA 8321B	Silvex	0.0040	U	ug/L	P430649	
		Thiamethoxam	0.0020	U	ug/L	P430649	
		Tolfenpyrad	0.0020	U	ug/L	P430649	
		Triclopyr	0.0040	U	ug/L	P430649	
2413812	EPA 200.7 Rev. 4.4	Calcium	19.9		mg/L	P430738	
		Iron	45	I	ug/L	P430738	
		Magnesium	1.85		mg/L	P430738	
		Potassium	1.4		mg/L	P430738	
		Sodium	6.1		mg/L	P430738	
		Strontium	45.7		ug/L	P430738	
		Tin	3.0	U	ug/L	P430738	
		Titanium	0.75	U	ug/L	P430738	
		Vanadium	2.0	U	ug/L	P430738	
		Zinc	5.0	U	ug/L	P430738	
	EPA 200.8 Rev. 5.4	Aluminum	15	I	ug/L	P430738	
		Antimony	0.32		ug/L	P430738	
		Arsenic	0.91		ug/L	P430738	
		Barium	11.1		ug/L	P430738	
		Beryllium	0.010	U	ug/L	P430738	
		Boron	20.8		ug/L	P430738	
		Cadmium	0.020	U	ug/L	P430738	
		Chromium	0.40	U	ug/L	P430738	
		Cobalt	0.056	I	ug/L	P430738	
		Copper	0.78	I	ug/L	P430738	
		Lead	0.20	U	ug/L	P430738	
		Manganese	4.92		ug/L	P430738	
		Molybdenum	0.75		ug/L	P430738	
		Nickel	0.50	U	ug/L	P430738	
		Selenium	0.20	U	ug/L	P430738	
		Silver	0.010	U	ug/L	P430738	
		Thallium	0.10	U	ug/L	P430738	
		Hardness	57.4		mg/L	P430738	
2413813	SM 2340 B-2011	Oxybenzone**	10	U	ng/L	P430753	MS
	EPA 8270E	Acetochlor	0.20	U	ng/L	P430753	MS, RPD
		Octinoxate**	42	IV	ng/L	P430753	
		Alachlor	0.40	U	ng/L	P430753	
		Avobenzone**	100	U	ng/L	P430753	
		Ametryn	1.1	U	ng/L	P430753	
		Atrazine	20		ng/L	P430753	
		PBDE-47**	4.0	U	ng/L	P430753	MS
		Atrazine Desethyl	1.3	U	ng/L	P430753	
		PBDE-99**	5.0	U	ng/L	P430753	
		Azinphos Methyl	3.0	U	ng/L	P430753	
		Tri-o-cresyl Phosphate**	6.0	U	ng/L	P430753	
		Azoxystrobin	0.40	U	ng/L	P430753	

Field ID: G4CE0239

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2413813	EPA 8270E	Bromacil	0.60	U	ng/L	P430753	
		2-Ethylhexyl	12	U	ng/L	P430753	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.20	U	ng/L	P430753	
		Dechlorane Plus**	30	U	ng/L	P430753	
		Caffeine**	53		ng/L	P430753	
		Dechlorane 602**	5.0	U	ng/L	P430753	
		Carbophenothion	0.50	U	ng/L	P430753	
		Dechlorane 603**	4.0	UJ	ng/L	P430753	LCS, MS
		Carfentrazone Ethyl	0.15	U	ng/L	P430753	
		Hexabromobenzene**	6.0	U	ng/L	P430753	MS
		Chlorfenapyr	0.30	U	ng/L	P430753	
		PBB-153**	8.1	U	ng/L	P430753	MS
		Chlorpyrifos Ethyl	0.30	U	ng/L	P430753	
		Pentabromotoluene**	3.0	U	ng/L	P430753	
		Chlorpyrifos Methyl	0.10	U	ng/L	P430753	
		Tris(2-chloroethyl) phosphate (TCEP)**	71	U	ng/L	P430753	
		Coumaphos	1.1	U	ng/L	P430753	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	5.3E+03		ng/L	P430753	
		Cyanazine	5.0	U	ng/L	P430753	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	8.5		ng/L	P430753	
		Cyprodinil	0.20	U	ng/L	P430753	
		Tetradecachloro-m-terphenyl**	7.6	UJ	ng/L	P430753	LCS, MS
		Demeton	3.5	U	ng/L	P430753	
		Diazinon	0.13	U	ng/L	P430753	
		Difenoconazole	0.60	U	ng/L	P430753	
		Dimethenamid	0.10	U	ng/L	P430753	
		Dimethomorph	0.30	U	ng/L	P430753	
		Disulfoton	0.60	U	ng/L	P430753	
		Dithiopyr	1.0	U	ng/L	P430753	
		EPTC	0.50	U	ng/L	P430753	
		Ethion	0.30	U	ng/L	P430753	
		Ethoprop	0.13	U	ng/L	P430753	
		Etridiazole	0.10	U	ng/L	P430753	
		Fenamiphos	0.45	U	ng/L	P430753	
		Fenbuconazole	0.50	U	ng/L	P430753	
		Fipronil	0.67	I	ng/L	P430753	
		Fipronil Desulfinyl**	2.2		ng/L	P430753	
		Fipronil Sulfide	0.62		ng/L	P430753	
		Fipronil Sulfone	0.45	I	ng/L	P430753	
		Fluazifop-P-butyl	0.10	U	ng/L	P430753	
		Fludioxonil	0.10	U	ng/L	P430753	
		Flumioxazin	3.0	U	ng/L	P430753	
		Flutolanil	0.10	U	ng/L	P430753	
		Fluxapyroxad	0.25	U	ng/L	P430753	

Field ID: G4CE0239

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2413813	EPA 8270E	Fonofos	0.15	U	ng/L	P430753	
		Hexazinone	0.50	U	ng/L	P430753	
		Imazalil	0.66	U	ng/L	P430753	
		Iprodione	0.50	U	ng/L	P430753	
		Loratadine**	0.30	U	ng/L	P430753	
		Malathion	0.35	U	ng/L	P430753	
		Metalaxyl	0.50	U	ng/L	P430753	
		Metolachlor	0.76	U	ng/L	P430753	
		Metribuzin	0.40	U	ng/L	P430753	
		Mevinphos	1.0	U	ng/L	P430753	
		Molinate	0.25	U	ng/L	P430753	
		Myclobutanil	0.35	U	ng/L	P430753	
		Naled	2.5	U	ng/L	P430753	
		Napropamide	0.71	U	ng/L	P430753	
		Norflurazon	1.0	U	ng/L	P430753	
		Oxadiazon	0.37	I	ng/L	P430753	
		Oxyfluorfen	0.20	U	ng/L	P430753	
		Parathion Ethyl	0.15	U	ng/L	P430753	
		Parathion Methyl	0.20	U	ng/L	P430753	
		Pendimethalin	0.76	UJ	ng/L	P430753	LCS, MS
		Phenytol**	5.3	U	ng/L	P430753	
		Phorate	0.25	U	ng/L	P430753	
		Prodiamine	0.20	U	ng/L	P430753	
		Prometon	3.0	U	ng/L	P430753	
		Prometryn	0.35	U	ng/L	P430753	
		Pronamide	0.10	U	ng/L	P430753	
		Propanil	0.10	U	ng/L	P430753	
		Propargite	0.81	U	ng/L	P430753	
		Propiconazole	1.2	I	ng/L	P430753	
		Pyraflufen Ethyl	0.30	U	ng/L	P430753	
		Pyridaben	13		ng/L	P430753	
		Pyriproxyfen	0.25	U	ng/L	P430753	
		Simazine	0.25	U	ng/L	P430753	
		Stirophos	0.40	U	ng/L	P430753	
		Sulfentrazone	1.4	U	ng/L	P430753	
		Tebuconazole	1.6	I	ng/L	P430753	
		Terbufos	0.20	U	ng/L	P430753	
		Terbuthylazine	0.20	U	ng/L	P430753	
		Thiobencarb	0.50	U	ng/L	P430753	
		Triadimefon	0.15	U	ng/L	P430753	

Matrix: W-SURF-FRH

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: P430696

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P430699

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P430738

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: P430738

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: P430853

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: P430855

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430816

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431115

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430908

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430718

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P430689

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

Reference Method: EPA 8270E
Batch ID: P430753

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: P430753

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: P430753

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: P430753

Component	Result	Code	Units
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	86		ng/L
Octinoxate	31	I	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: P430753

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: P430640

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: P430649

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P430649

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: P430931

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

Reference Method: SM 2540 C-2015

Batch ID: P431042

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P431015

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P430934

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P430953

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: P430696

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.3		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P430699

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	97.7		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P430738

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

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P430738

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	100		P	85 - 115
Antimony	104		P	85 - 115
Arsenic	100		P	85 - 115
Barium	103		P	85 - 115
Beryllium	98.7		P	85 - 115
Boron	100		P	85 - 115
Cadmium	99.6		P	85 - 115
Chromium	96.3		P	85 - 115
Cobalt	101		P	85 - 115
Copper	97.2		P	85 - 115
Lead	103		P	85 - 115
Manganese	96.7		P	85 - 115
Molybdenum	98.5		P	85 - 115
Nickel	98.0		P	85 - 115
Selenium	99.3		P	85 - 115
Silver	105		P	85 - 115
Thallium	99.4		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430853

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: P430855

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430816

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: P431115

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430908

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430718

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P430689

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	96.7		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P430753

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	123		P	42 - 162
Acetochlor	83.2		P	69 - 123
Alachlor	97.7		P	65 - 118
Ametryn	122		P	58 - 141
Atrazine	91.2		P	73 - 118
Atrazine Desethyl	94.9		P	32 - 125
Avobenzone	180		P	40 - 203
Azinphos Methyl	105		P	36 - 197
Azoxystrobin	111		P	58 - 226
Bromacil	115		P	48 - 120
Butylate	67.9		P	27 - 85.0
Caffeine	86.1		P	40 - 137
Carbophenothion	110		P	54 - 132
Carfentrazone Ethyl	116		P	60 - 142
Chlorfenapyr	76.2		P	53 - 117
Chlorpyrifos Ethyl	87.2		P	59 - 116

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P430753

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	95.9		P	66 - 119
Coumaphos	131		P	11 - 234
Cyanazine	172		P	61 - 248
Cyprodinil	106		P	50 - 147
Dechlorane 602	115		P	50 - 150
Dechlorane 603	162		F	50 - 150
Dechlorane Plus	135		P	47 - 182
Demeton	81.5		P	30 - 138
Diazinon	111		P	67 - 126
Difenoconazole	114		P	38 - 205
Dimethenamid	94.8		P	57 - 111
Dimethomorph	117		P	16 - 212
Disulfoton	102		P	46 - 126
Dithiopyr	101		P	62 - 115
EPTC	67.3		P	28 - 80.0
Ethion	70.7		P	24 - 122
Ethoprop	93.4		P	62 - 113
Etridiazole	76.7		P	28 - 92.0
Fenamiphos	87.5		P	57 - 128
Fenbuconazole	83.5		P	52 - 155
Fipronil	93.5		P	63 - 130
Fipronil Desulfinyl	107		P	61 - 130
Fipronil Sulfide	90.4		P	56 - 117
Fipronil Sulfone	105		P	52 - 118
Fluazifop-P-butyl	76.6		P	61 - 128
Fludioxonil	87.7		P	59 - 129
Flumioxazin	151		P	30 - 250
Flutolanil	96.8		P	53 - 127
Fluxapyroxad	103		P	42 - 132
Fonofos	91.5		P	61 - 110
Hexabromobenzene	109		P	50 - 150
Hexazinone	99.7		P	46 - 139
Imazalil	84.1		P	40 - 139
Iprodione	87.9		P	40 - 146
Loratadine	150		P	10 - 224
Malathion	102		P	61 - 135
Metalaxyl	92.3		P	58 - 121
Metolachlor	106		P	64 - 118
Metribuzin	97.7		P	45 - 245
Mevinphos	88.1		P	49 - 118
Molinate	64.7		P	42 - 92.0
Myclobutanil	105		P	55 - 127
Naled	45.2		P	10 - 114
Napropamide	89.3		P	39 - 121
Norflurazon	106		P	55 - 129
Octinoxate	148		P	26 - 166
Oxadiazon	97.6		P	54 - 115
Oxybenzone	135		P	49 - 135
Oxyfluorfen	117		P	64 - 139
Parathion Ethyl	96.9		P	70 - 111
Parathion Methyl	94.8		P	76 - 136
PBB-153	115		P	50 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P430753

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBDE-47	126		P	41 - 148
PBDE-99	108		P	38 - 147
Pendimethalin	149		F	52 - 118
Pentabromotoluene	130		P	50 - 150
Phenytoin	119		P	10 - 162
Phorate	98.3		P	40 - 122
Prodiamine	77.9		P	26 - 141
Prometon	113		P	54 - 122
Prometryn	109		P	61 - 128
Pronamide	115		P	72 - 121
Propanil	120		P	45 - 144
Propargite	99.6		P	10 - 199
Propiconazole	89.0		P	56 - 127
Pyraflufen Ethyl	76.9		P	56 - 140
Pyridaben	107		P	26 - 211
Pyriproxyfen	108		P	33 - 194
Simazine	87.3		P	67 - 121
Stirophos	89.5		P	20 - 142
Sulfentrazone	95.4		P	21 - 144
Tebuconazole	91.3		P	10 - 122
Terbufos	107		P	60 - 129
Terbutylazine	90.1		P	69 - 113
Tetradecachloro-m-terphenyl	220		F	70 - 200
Thiobencarb	103		P	51 - 120
Tri-o-cresyl Phosphate	133		P	49 - 150
Triadimefon	107		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	115		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	123		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	118		P	70 - 180

Reference Method: EPA 8321B

Batch ID: P430640

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	113		P	40 - 150
AMPA	110		P	40 - 150
Endothall	93.5		P	40 - 150
Glufosinate	96.2		P	40 - 150
Glyphosate	89.6		P	40 - 150
Sucralose	104		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P430649

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	113		P	40 - 150
2,4,5-T	73.2		P	40 - 150
Acetaminophen	86.4		P	30 - 150
Acetamiprid	68.2		P	40 - 150
Afidopyropen	63.8		P	30 - 150
Bentazon	118		P	30 - 150
Benzovindiflupyr	81.4		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P430649

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Carbamazepine	86.4		P	40 - 150
Clothianidin	83.1		P	40 - 150
Dinotefuran	95.4		P	40 - 150
Diuron	104		P	40 - 150
Fenuron	79.7		P	40 - 150
Fluridone	90.6		P	40 - 150
Hydrocodone	83.2		P	40 - 150
Ibuprofen	89.6		P	40 - 150
Imazapyr	102		P	40 - 150
Imidacloprid	78.1		P	40 - 150
Linuron	80.8		P	40 - 150
Mandestrobin	86.1		P	40 - 150
MCPP	88.1		P	40 - 150
Naproxen	45.1		P	40 - 150
Primidone	85.8		P	40 - 150
Pyraclostrobin	69.0		P	40 - 150
Silvex	83.2		P	40 - 150
Thiamethoxam	77.2		P	40 - 150
Tolfenpyrad	48.2		P	30 - 150
Triclopyr	73.1		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P430931

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.3		P	92 - 105

Reference Method: SM 2540 C-2015

Batch ID: P431042

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

Reference Method: SM 2540 D-2015

Batch ID: P431015

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	95.3		P	85 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P430934

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	105		P	94 - 106

Reference Method: SM 5310 B-2011

Batch ID: P430953

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P430738

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413780	Calcium	112		P	80 - 120
2413780	Iron	103	102	P/P	80 - 120
2413780	Magnesium	98.5	97.2	P/P	80 - 120
2413780	Potassium	100	101	P/P	80 - 120
2413780	Sodium	110		P	80 - 120
2413780	Strontium	103	100	P/P	80 - 120
2413780	Tin	103	102	P/P	80 - 120
2413780	Titanium	97.3	94.5	P/P	80 - 120
2413780	Vanadium	104	102	P/P	80 - 120
2413780	Zinc	104	101	P/P	80 - 120
2413934	Calcium	82.1		P	80 - 120
2413934	Iron	102		P	80 - 120
2413934	Magnesium	82.6		P	80 - 120
2413934	Potassium	80.9		P	80 - 120
2413934	Sodium	83.4		P	80 - 120
2413934	Strontium	99.9		P	80 - 120
2413934	Tin	80.4		P	80 - 120
2413934	Titanium	104		P	80 - 120
2413934	Vanadium	102		P	80 - 120
2413934	Zinc	99.3		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P430738

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413780	Aluminum	100	101	P/P	80 - 120
2413780	Antimony	107	106	P/P	80 - 120
2413780	Arsenic	103	103	P/P	80 - 120
2413780	Barium	105	105	P/P	80 - 120
2413780	Beryllium	99.1	99.8	P/P	80 - 120
2413780	Boron	100	101	P/P	80 - 120
2413780	Cadmium	102	99.8	P/P	80 - 120
2413780	Chromium	97.1	97.3	P/P	80 - 120
2413780	Cobalt	103	102	P/P	80 - 120
2413780	Copper	97.9	97.1	P/P	80 - 120
2413780	Lead	105	105	P/P	80 - 120
2413780	Manganese	97.2	97.7	P/P	80 - 120
2413780	Molybdenum	100	101	P/P	80 - 120
2413780	Nickel	98.1	99.4	P/P	80 - 120
2413780	Selenium	104	102	P/P	80 - 120
2413780	Silver	105	104	P/P	80 - 120
2413780	Thallium	102	103	P/P	80 - 120
2413934	Aluminum	101		P	80 - 120
2413934	Antimony	104		P	80 - 120
2413934	Arsenic	101		P	80 - 120
2413934	Barium	103		P	80 - 120
2413934	Beryllium	95.9		P	80 - 120
2413934	Boron	104		P	80 - 120
2413934	Cadmium	98.9		P	80 - 120
2413934	Chromium	98.8		P	80 - 120
2413934	Cobalt	102		P	80 - 120
2413934	Copper	100		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P430738

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413934	Lead	105		P	80 - 120
2413934	Manganese	101		P	80 - 120
2413934	Molybdenum	98.8		P	80 - 120
2413934	Nickel	101		P	80 - 120
2413934	Selenium	103		P	80 - 120
2413934	Silver	105		P	80 - 120
2413934	Thallium	101		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430853

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413750	Chloride	103		P	90 - 110
2413884	Chloride	103		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430855

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413750	Sulfate	99.9		P	90 - 110
2413884	Sulfate	99.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430816

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413747	Ammonia-N	97.4	99.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431115

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413770	Kjeldahl Nitrogen	101	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430908

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413747	NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430718

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413770	Total-P	105	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P430689

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413804	O-Phosphate-P	95.4	95.5	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P430753

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413839	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	159	149	P/P	26 - 165
2413839	Acetochlor	108	57.3	P/F	67 - 124
2413839	Alachlor	106	95.0	P/P	60 - 120
2413839	Ametryn	134	127	P/P	54 - 216
2413839	Atrazine Desethyl	90.1	95.5	P/P	15 - 122
2413839	Avobenzone	177	175	P/P	37 - 178
2413839	Azinphos Methyl	103	94.0	P/P	40 - 292
2413839	Azoxystrobin	110	122	P/P	35 - 220
2413839	Bromacil	121	122	P/P	45 - 127
2413839	Butylate	54.9	61.3	P/P	20 - 83.0
2413839	Caffeine	92.3	91.7	P/P	10 - 194
2413839	Carbophenothion	117	110	P/P	57 - 127
2413839	Carfentrazone Ethyl	129	117	P/P	51 - 141
2413839	Chlorfenapyr	79.2	87.0	P/P	46 - 111
2413839	Chlorpyrifos Ethyl	92.0	86.4	P/P	52 - 120
2413839	Chlorpyrifos Methyl	103	103	P/P	63 - 119
2413839	Coumaphos	134	125	P/P	10 - 228
2413839	Cyanazine	172	206	P/P	59 - 241
2413839	Cyprodinil	114	105	P/P	47 - 146
2413839	Dechlorane 602	143	108	P/P	50 - 150
2413839	Dechlorane 603	187	185	F/F	50 - 150
2413839	Dechlorane Plus	130	123	P/P	50 - 150
2413839	Demeton	79.9	81.0	P/P	40 - 136
2413839	Diazinon	120	112	P/P	69 - 132
2413839	Difenoconazole	127	95.8	P/P	57 - 258
2413839	Dimethenamid	96.9	89.7	P/P	54 - 110
2413839	Dimethomorph	110	173	P/P	28 - 210
2413839	Disulfoton	107	105	P/P	43 - 133
2413839	Dithiopyr	100	93.1	P/P	39 - 116
2413839	EPTC	53.5	58.1	P/P	20 - 78.0
2413839	Ethion	77.8	48.1	P/P	17 - 119
2413839	Ethoprop	93.7	96.6	P/P	66 - 120
2413839	Etridiazole	69.6	72.3	P/P	28 - 96.0
2413839	Fenamiphos	95.5	79.2	P/P	41 - 126
2413839	Fenbuconazole	84.7	81.9	P/P	42 - 169
2413839	Fipronil	111	104	P/P	61 - 132
2413839	Fipronil Desulfinyl	121	106	P/P	56 - 132
2413839	Fipronil Sulfide	100	92.0	P/P	48 - 119
2413839	Fipronil Sulfone	117	97.7	P/P	42 - 131
2413839	Fluazifop-P-butyl	73.6	80.4	P/P	53 - 131
2413839	Fludioxonil	94.5	89.8	P/P	56 - 127
2413839	Flumioxazin	176	144	P/P	19 - 300
2413839	Flutolanil	95.1	79.9	P/P	41 - 127
2413839	Fluxapyroxad	122	98.9	P/P	42 - 172
2413839	Fonofos	95.4	97.0	P/P	59 - 113
2413839	Hexabromobenzene	172	174	F/F	50 - 150
2413839	Hexazinone	104	95.6	P/P	66 - 122
2413839	Imazalil	64.2	72.3	P/P	21 - 283
2413839	Iprodione	101	87.0	P/P	43 - 150
2413839	Loratadine	157	148	P/P	23 - 201
2413839	Malathion	113	107	P/P	58 - 136
2413839	Metalaxyl	98.6	94.9	P/P	55 - 120

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P430753

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413839	Metolachlor	110	98.5	P/P	57 - 121
2413839	Metribuzin	102	107	P/P	58 - 294
2413839	Mevinphos	92.2	93.9	P/P	50 - 126
2413839	Molinate	60.0	64.8	P/P	42 - 93.0
2413839	Myclobutanil	117	120	P/P	55 - 125
2413839	Naled	42.6	41.0	P/P	18 - 200
2413839	Napropamide	101	69.7	P/P	39 - 110
2413839	Norflurazon	122	113	P/P	48 - 128
2413839	Octinoxate	154	157	P/P	21 - 159
2413839	Oxadiazon	104	98.2	P/P	43 - 112
2413839	Oxybenzone	146	156	F/F	41 - 142
2413839	Oxyfluorfen	123	107	P/P	64 - 153
2413839	Parathion Ethyl	101	96.8	P/P	69 - 114
2413839	Parathion Methyl	103	104	P/P	79 - 139
2413839	PBB-153	178	180	F/F	50 - 150
2413839	PBDE-47	151	139	F/P	27 - 144
2413839	PBDE-99	148	134	P/P	18 - 150
2413839	Pendimethalin	163	139	F/P	50 - 139
2413839	Pentabromotoluene	141	146	P/P	50 - 150
2413839	Phenytoin	102	80.4	P/P	10 - 146
2413839	Phorate	99.4	116	P/P	54 - 161
2413839	Prodiamine	100	70.3	P/P	30 - 161
2413839	Prometon	107	95.3	P/P	45 - 134
2413839	Prometryn	107	108	P/P	45 - 137
2413839	Pronamide	124	119	P/P	65 - 133
2413839	Propanil	133	127	P/P	49 - 142
2413839	Propargite	108	72.9	P/P	10 - 203
2413839	Propiconazole	98.9	94.0	P/P	38 - 146
2413839	Pyraflufen Ethyl	71.8	73.7	P/P	34 - 153
2413839	Pyridaben	116	96.4	P/P	12 - 192
2413839	Pyriproxyfen	93.3	97.6	P/P	33 - 180
2413839	Simazine	97.7	91.7	P/P	51 - 157
2413839	Stiropfos	102	75.4	P/P	10 - 128
2413839	Sulfentrazone	109	102	P/P	53 - 186
2413839	Tebuconazole	108	71.4	P/P	10 - 133
2413839	Terbufos	112	118	P/P	65 - 139
2413839	Terbuthylazine	96.5	95.6	P/P	66 - 117
2413839	Tetradecachloro-m-terphenyl	236	262	F/F	70 - 200
2413839	Thiobencarb	116	110	P/P	51 - 119
2413839	Tri-o-cresyl Phosphate	142	143	P/P	31 - 144
2413839	Triadimefon	114	116	P/P	48 - 119
2413839	Tris(1-chloro-2-propyl) phosphate (TCPP)	93.1	96.0	P/P	50 - 150
2413839	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	131	130	P/P	50 - 150
2413839	Tris(2-chloroethyl) phosphate (TCEP)	130	137	P/P	70 - 180

Reference Method: EPA 8321B

Batch ID: P430640

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413241	Acesulfame K	116	117	P/P	40 - 150
2413241	AMPA	94.5	92.1	P/P	40 - 150
2413241	Endothall	94.8	91.2	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P430640

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413241	Glufosinate	82.2	85.9	P/P	40 - 150
2413241	Glyphosate	81.1	86.0	P/P	40 - 150
2413241	Sucralose	126	104	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P430649

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413433	2,4-D	97.5	95.5	P/P	40 - 150
2413433	2,4,5-T	84.5	89.9	P/P	40 - 150
2413433	Acetaminophen	93.7	86.9	P/P	30 - 150
2413433	Acetamiprid	44.4	55.8	P/P	40 - 150
2413433	Afidopyropen	52.6	69.4	P/P	30 - 150
2413433	Bentazon	79.6	84.6	P/P	30 - 150
2413433	Benzovindiflupyr	84.4	76.5	P/P	40 - 150
2413433	Carbamazepine	73.1	72.2	P/P	40 - 150
2413433	Clothianidin	83.3	80.7	P/P	40 - 150
2413433	Dinotefuran	69.7	65.7	P/P	40 - 150
2413433	Diuron	88.4	82.3	P/P	40 - 150
2413433	Fenuron	55.3	55.4	P/P	40 - 150
2413433	Fluridone	82.7	74.3	P/P	40 - 150
2413433	Hydrocodone	65.4	63.9	P/P	40 - 150
2413433	Ibuprofen	47.6	57.7	P/P	40 - 150
2413433	Imazapyr	95.3	91.0	P/P	40 - 150
2413433	Imidacloprid	109	103	P/P	40 - 150
2413433	Linuron	77.2	78.7	P/P	40 - 150
2413433	Mandestrobin	80.8	83.2	P/P	40 - 150
2413433	MCP	82.9	82.4	P/P	40 - 150
2413433	Naproxen	54.3	42.9	P/P	40 - 150
2413433	Primidone	84.3	76.6	P/P	40 - 150
2413433	Pyraclostrobin	79.6	79.0	P/P	40 - 150
2413433	Silvex	73.4	77.5	P/P	40 - 150
2413433	Thiamethoxam	72.7	73.5	P/P	40 - 150
2413433	Tolfenpyrad	54.1	46.5	P/P	30 - 150
2413433	Triclopyr	79.4	76.5	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P430934

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414185	Fluoride	107	105	F/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P430953

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413803	Organic Carbon	95.5	93.5	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P430696

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413802	Color (true)	0.780	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P430699

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413744	Turbidity	1.01	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P430738

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413780	Calcium	4.03	Spike	P	0 - 20
2413780	Iron	0.388	Spike	P	0 - 20
2413780	Magnesium	0.693	Spike	P	0 - 20
2413780	Potassium	0.207	Spike	P	0 - 20
2413780	Sodium	2.55	Spike	P	0 - 20
2413780	Strontium	2.57	Spike	P	0 - 20
2413780	Tin	1.52	Spike	P	0 - 20
2413780	Titanium	2.84	Spike	P	0 - 20
2413780	Vanadium	2.08	Spike	P	0 - 20
2413780	Zinc	2.58	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P430738

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413780	Aluminum	0.911	Spike	P	0 - 20
2413780	Antimony	1.24	Spike	P	0 - 20
2413780	Arsenic	0.101	Spike	P	0 - 20
2413780	Barium	0.737	Spike	P	0 - 20
2413780	Beryllium	0.650	Spike	P	0 - 20
2413780	Boron	0.648	Spike	P	0 - 20
2413780	Cadmium	1.73	Spike	P	0 - 20
2413780	Chromium	0.246	Spike	P	0 - 20
2413780	Cobalt	0.305	Spike	P	0 - 20
2413780	Copper	0.775	Spike	P	0 - 20
2413780	Lead	0.664	Spike	P	0 - 20
2413780	Manganese	0.492	Spike	P	0 - 20
2413780	Molybdenum	0.887	Spike	P	0 - 20
2413780	Nickel	1.29	Spike	P	0 - 20
2413780	Selenium	2.22	Spike	P	0 - 20
2413780	Silver	1.35	Spike	P	0 - 20
2413780	Thallium	1.06	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430853

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413750	Chloride	2.24	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430816

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413747	Ammonia-N	1.72	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431115

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413770	Kjeldahl Nitrogen	1.97	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430908

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413747	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430718

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413770	Total-P	1.44	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P430689

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413804	O-Phosphate-P	0.105	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P430753

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413839	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	6.13	Spike	P	0 - 37
2413839	Acetochlor	36.2	Spike	F	0 - 28
2413839	Alachlor	11.1	Spike	P	0 - 30
2413839	Ametryn	5.32	Spike	P	0 - 32
2413839	Atrazine	12.1	Spike	P	0 - 41
2413839	Atrazine Desethyl	4.12	Spike	P	0 - 36
2413839	Avobenzene	0.774	Spike	P	0 - 36
2413839	Azinphos Methyl	9.08	Spike	P	0 - 75
2413839	Azoxystrobin	9.66	Spike	P	0 - 39

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P430753

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413839	Bromacil	0.861	Spike	P	0 - 33
2413839	Butylate	11.0	Spike	P	0 - 44
2413839	Caffeine	0.573	Spike	P	0 - 74
2413839	Carbophenothion	6.54	Spike	P	0 - 25
2413839	Carfentrazone Ethyl	9.53	Spike	P	0 - 27
2413839	Chlorfenapyr	9.38	Spike	P	0 - 24
2413839	Chlorpyrifos Ethyl	6.38	Spike	P	0 - 26
2413839	Chlorpyrifos Methyl	0.283	Spike	P	0 - 26
2413839	Coumaphos	6.78	Spike	P	0 - 28
2413839	Cyanazine	18.3	Spike	P	0 - 48
2413839	Cyprodinil	8.89	Spike	P	0 - 29
2413839	Dechlorane 602	27.6	Spike	P	0 - 30
2413839	Dechlorane 603	1.48	Spike	P	0 - 30
2413839	Dechlorane Plus	5.33	Spike	P	0 - 30
2413839	Demeton	1.38	Spike	P	0 - 33
2413839	Diazinon	7.13	Spike	P	0 - 29
2413839	Difenoconazole	27.9	Spike	P	0 - 34
2413839	Dimethenamid	7.70	Spike	P	0 - 39
2413839	Dimethomorph	44.3	Spike	P	0 - 51
2413839	Disulfoton	2.52	Spike	P	0 - 30
2413839	Dithiopyr	7.07	Spike	P	0 - 26
2413839	EPTC	8.23	Spike	P	0 - 43
2413839	Ethion	47.1	Spike	P	0 - 79
2413839	Ethoprop	3.12	Spike	P	0 - 29
2413839	Etridiazole	3.90	Spike	P	0 - 33
2413839	Fenamiphos	18.6	Spike	P	0 - 40
2413839	Fenbuconazole	3.36	Spike	P	0 - 74
2413839	Fipronil	7.04	Spike	P	0 - 29
2413839	Fipronil Desulfinyl	12.4	Spike	P	0 - 32
2413839	Fipronil Sulfide	8.81	Spike	P	0 - 30
2413839	Fipronil Sulfone	17.7	Spike	P	0 - 33
2413839	Fluazifop-P-butyl	8.85	Spike	P	0 - 38
2413839	Fludioxonil	5.03	Spike	P	0 - 29
2413839	Flumioxazin	20.2	Spike	P	0 - 51
2413839	Flutolanil	16.7	Spike	P	0 - 25
2413839	Fluxapyroxad	20.7	Spike	P	0 - 45
2413839	Fonofos	1.65	Spike	P	0 - 27
2413839	Hexabromobenzene	1.56	Spike	P	0 - 30
2413839	Hexazinone	7.66	Spike	P	0 - 30
2413839	Imazalil	11.8	Spike	P	0 - 100
2413839	Iprodione	14.7	Spike	P	0 - 33
2413839	Loratadine	5.98	Spike	P	0 - 56
2413839	Malathion	5.66	Spike	P	0 - 37
2413839	Metalaxyl	3.84	Spike	P	0 - 40
2413839	Metolachlor	4.52	Spike	P	0 - 29
2413839	Metribuzin	5.64	Spike	P	0 - 45
2413839	Mevinphos	1.77	Spike	P	0 - 29
2413839	Molinate	7.75	Spike	P	0 - 33
2413839	Myclobutanil	2.62	Spike	P	0 - 26
2413839	Naled	3.84	Spike	P	0 - 37
2413839	Napropamide	36.3	Spike	P	0 - 44

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P430753

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413839	Norflurazon	7.65	Spike	P	0 - 30
2413839	Octinoxate	2.27	Spike	P	0 - 45
2413839	Oxadiazon	5.61	Spike	P	0 - 28
2413839	Oxybenzone	6.73	Spike	P	0 - 46
2413839	Oxyfluorfen	14.1	Spike	P	0 - 28
2413839	Parathion Ethyl	3.97	Spike	P	0 - 31
2413839	Parathion Methyl	0.798	Spike	P	0 - 29
2413839	PBB-153	1.35	Spike	P	0 - 30
2413839	PBDE-47	8.15	Spike	P	0 - 36
2413839	PBDE-99	10.4	Spike	P	0 - 40
2413839	Pendimethalin	16.0	Spike	P	0 - 33
2413839	Pentabromotoluene	3.73	Spike	P	0 - 30
2413839	Phenytoin	23.7	Spike	P	0 - 100
2413839	Phorate	15.4	Spike	P	0 - 36
2413839	Prodiamine	35.1	Spike	P	0 - 71
2413839	Prometon	12.0	Spike	P	0 - 36
2413839	Prometryn	1.01	Spike	P	0 - 28
2413839	Pronamide	4.08	Spike	P	0 - 24
2413839	Propanil	4.50	Spike	P	0 - 28
2413839	Propargite	39.2	Spike	P	0 - 43
2413839	Propiconazole	5.13	Spike	P	0 - 33
2413839	Pyraflufen Ethyl	2.58	Spike	P	0 - 29
2413839	Pyridaben	18.2	Spike	P	0 - 30
2413839	Pyriproxyfen	4.47	Spike	P	0 - 79
2413839	Simazine	6.32	Spike	P	0 - 29
2413839	Stirophos	29.8	Spike	P	0 - 61
2413839	Sulfentrazone	7.17	Spike	P	0 - 33
2413839	Tebuconazole	40.4	Spike	P	0 - 69
2413839	Terbufos	5.47	Spike	P	0 - 29
2413839	Terbuthylazine	1.01	Spike	P	0 - 32
2413839	Tetradecachloro-m-terphenyl	10.3	Spike	P	0 - 30
2413839	Thiobencarb	5.46	Spike	P	0 - 26
2413839	Tri-o-cresyl Phosphate	0.603	Spike	P	0 - 33
2413839	Triadimefon	2.06	Spike	P	0 - 28
2413839	Tris(1-chloro-2-propyl) phosphate (TCPP)	2.84	Spike	P	0 - 30
2413839	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	0.812	Spike	P	0 - 30
2413839	Tris(2-chloroethyl) phosphate (TCEP)	4.71	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P430640

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413241	Acesulfame K	0.959	Spike	P	0 - 30
2413241	AMPA	2.55	Spike	P	0 - 30
2413241	Endothall	3.87	Spike	P	0 - 30
2413241	Glufosinate	4.44	Spike	P	0 - 30
2413241	Glyphosate	5.86	Spike	P	0 - 30
2413241	Sucralose	18.3	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P430649

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413433	2,4-D	1.64	Spike	P	0 - 30
2413433	2,4,5-T	6.22	Spike	P	0 - 30
2413433	Acetaminophen	7.51	Spike	P	0 - 30
2413433	Acetamiprid	22.9	Spike	P	0 - 30
2413433	Afidopyropen	27.5	Spike	P	0 - 30
2413433	Bentazon	6.10	Spike	P	0 - 30
2413433	Benzovindiflupyr	9.79	Spike	P	0 - 30
2413433	Carbamazepine	1.29	Spike	P	0 - 30
2413433	Clothianidin	3.17	Spike	P	0 - 30
2413433	Dinotefuran	5.89	Spike	P	0 - 30
2413433	Diuron	7.14	Spike	P	0 - 30
2413433	Fenuron	0.0396	Spike	P	0 - 30
2413433	Fluridone	10.6	Spike	P	0 - 30
2413433	Hydrocodone	2.28	Spike	P	0 - 30
2413433	Ibuprofen	19.2	Spike	P	0 - 30
2413433	Imazapyr	4.53	Spike	P	0 - 30
2413433	Imidacloprid	4.91	Spike	P	0 - 30
2413433	Linuron	1.94	Spike	P	0 - 30
2413433	Mandestrobin	2.91	Spike	P	0 - 30
2413433	MCP	0.530	Spike	P	0 - 30
2413433	Naproxen	23.4	Spike	P	0 - 30
2413433	Primidone	9.63	Spike	P	0 - 30
2413433	Pyraclostrobin	0.862	Spike	P	0 - 30
2413433	Silvex	5.37	Spike	P	0 - 30
2413433	Thiamethoxam	1.22	Spike	P	0 - 30
2413433	Tolfenpyrad	15.2	Spike	P	0 - 30
2413433	Triclopyr	3.78	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P430931

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414185	Total Alkalinity	1.13	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P431042

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413223	TDS	4.68	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P430934

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414185	Fluoride	1.48	Spike	P	0 - 1.9

Quality Assurance Report Precision

Reference Method: SM 5310 B-2011
Batch ID: P430953

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413803	Organic Carbon	1.46	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2413811
Field Sample ID: G4CE0239

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	98.6	P	30 - 160
EPA 8321B	Acetaminophen-d4	81.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	63.5	P	30 - 160
EPA 8321B	Diuron-d6	69.9	P	30 - 160
EPA 8321B	Endothall-d6	98.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	88.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	42.3	P	30 - 160
EPA 8321B	Primidone-d5	82.1	P	30 - 160
EPA 8321B	Sucralose-d6	100	P	30 - 160

Lab Sample ID: 2413813
Field Sample ID: G4CE0239

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	97.2	P	20 - 200
EPA 8270E	Simazine-d10	97.6	P	62 - 142
EPA 8270E	Terbufos-d10	83.2	P	58 - 132
EPA 8270E	Terphenyl-d14	73.7	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A119518

Included Lab Sample IDs: 2413804

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.3	97.8	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A119524

Included Lab Sample IDs: 2413802

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.4	98.4	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A119525

Included Lab Sample IDs: 2413802

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	97.5	98.0	P/P	95 - 105

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A119578

Included Lab Sample IDs: 2413803

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.6	97.9	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A119586

Included Lab Sample IDs: 2413811

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	93.7	98.4	P/P	50 - 150
2,4,5-T	93.2	97.6	P/P	50 - 150
Acetaminophen	100	102	P/P	60 - 160
Acetamiprid	95.7	107	P/P	50 - 150
Afidopyropen	104	116	P/P	50 - 150
Bentazon	138	136	P/P	50 - 160
Benzovindiflupyr	102	104	P/P	50 - 150
Carbamazepine	109	111	P/P	60 - 150
Clothianidin	92.3	99.9	P/P	60 - 150
Dinotefuran	105	112	P/P	50 - 150
Diuron	118	131	P/P	60 - 160
Fenuron	97.8	103	P/P	60 - 150
Fluridone	110	114	P/P	60 - 160
Hydrocodone	106	115	P/P	60 - 150
Ibuprofen	202*	93.8	F/P	50 - 160
Imazapyr	123	129	P/P	50 - 150
Imidacloprid	89.1	96.8	P/P	60 - 150
Linuron	98.9	103	P/P	60 - 150
Mandestrobin	107	109	P/P	50 - 150
MCPP	91.4	106	P/P	50 - 150
Naproxen	61.2	81.8	P/P	50 - 160
Primidone	95.0	102	P/P	60 - 150
Pyraclostrobin	98.9	105	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A119586
Included Lab Sample IDs: 2413811

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Silvex	90.5	94.3	P/P	50 - 150
Thiamethoxam	98.3	102	P/P	50 - 150
Tolfenpyrad	92.0	93.1	P/P	60 - 150
Triclopyr	67.3	85.6	P/P	50 - 150

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A119588
Included Lab Sample IDs: 2413812

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.8	101	P/P	90 - 110
Antimony	103	104	P/P	90 - 110
Arsenic	100	102	P/P	90 - 110
Barium	101	102	P/P	90 - 110
Beryllium	98.6	99.6	P/P	90 - 110
Boron	99.3	101	P/P	90 - 110
Cadmium	99.3	100	P/P	90 - 110
Chromium	99.0	100	P/P	90 - 110
Cobalt	102	103	P/P	90 - 110
Copper	97.1	99.1	P/P	90 - 110
Lead	102	103	P/P	90 - 110
Manganese	98.8	101	P/P	90 - 110
Molybdenum	98.7	99.8	P/P	90 - 110
Nickel	99.0	100	P/P	90 - 110
Selenium	100	103	P/P	90 - 110
Silver	104	105	P/P	90 - 110
Thallium	102	102	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A119605
Included Lab Sample IDs: 2413802

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	97.5	97.9	P/P	90 - 110
Sulfate	99.0	99.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A119628
Included Lab Sample IDs: 2413803

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	106	106	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A119631
Included Lab Sample IDs: 2413811

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	108	108	P/P	60 - 160
Sucralose	101	83.3	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-2011

Run ID: A119632

Included Lab Sample IDs: 2413802

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	100	94.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A119632

Included Lab Sample IDs: 2413802

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

Reference Method: EPA 8321B

Run ID: A119635

Included Lab Sample IDs: 2413811

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	113	108	P/P	60 - 160
Endothall	154	142	P/P	60 - 160
Glufosinate	103	101	P/P	60 - 160
Glyphosate	131	132	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A119636

Included Lab Sample IDs: 2413803

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.2	98.5	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A119648

Included Lab Sample IDs: 2413803

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.8	95.6	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A119677

Included Lab Sample IDs: 2413812

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	99.5	98.7	P/P	90 - 110
Iron	101	99.2	P/P	90 - 110
Magnesium	100	98.6	P/P	90 - 110
Potassium	99.5	98.7	P/P	90 - 110
Sodium	98.2	98.3	P/P	90 - 110
Strontium	99.8	99.6	P/P	90 - 110
Tin	104	102	P/P	90 - 110
Titanium	101	101	P/P	90 - 110
Vanadium	101	101	P/P	90 - 110
Zinc	104	102	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A119743
Included Lab Sample IDs: 2413813

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tris(1-chloro-2-propyl) phosphate (TCPP)	85.4		P	80 - 120

Reference Method: EPA 8270E
Run ID: A119746
Included Lab Sample IDs: 2413813

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	98.6		P	80 - 120
Avobenzone	102		P	80 - 120
Dechlorane 602	100		P	80 - 120
Dechlorane 603	103		P	80 - 120
Dechlorane Plus	102		P	80 - 120
Hexabromobenzene	100		P	80 - 120
Octinoxate	92.9		P	80 - 120
Oxybenzone	96.4		P	80 - 120
PBB-153	97.8		P	80 - 120
PBDE-47	97.7		P	80 - 120
PBDE-99	97.1		P	80 - 120
Pentabromotoluene	96.0		P	80 - 120
Tetradecachloro-m-terphenyl	97.3		P	80 - 120
Tri-o-cresyl Phosphate	94.3		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	90.8		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	91.9		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A119753
Included Lab Sample IDs: 2413803

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	104	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A119814
Included Lab Sample IDs: 2413813

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	87.6		P	80 - 120
Alachlor	91.9		P	80 - 120
Ametryn	104		P	80 - 120
Atrazine	87.3		P	80 - 120
Atrazine Desethyl	114		P	80 - 120
Azinphos Methyl	91.0		P	80 - 120
Azoxystrobin	99.8		P	80 - 120
Bromacil	109		P	80 - 120
Butylate	96.5		P	80 - 120
Caffeine	106		P	80 - 120
Carbophenothion	102		P	80 - 120
Carfentrazone Ethyl	102		P	80 - 120
Chlorfenapyr	82.5		P	80 - 120
Chlorpyrifos Ethyl	89.8		P	80 - 120
Chlorpyrifos Methyl	97.6		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A119814
Included Lab Sample IDs: 2413813

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Coumaphos	101		P	80 - 120
Cyanazine	114		P	80 - 120
Cyprodinil	92.1		P	80 - 120
Demeton	104		P	80 - 120
Diazinon	100		P	80 - 120
Difenoconazole	95.5		P	80 - 120
Dimethenamid	96.6		P	80 - 120
Dimethomorph	89.4		P	80 - 120
Disulfoton	101		P	80 - 120
Dithiopyr	98.9		P	80 - 120
EPTC	98.6		P	80 - 120
Ethion	89.8		P	80 - 120
Ethoprop	104		P	80 - 120
Etridiazole	99.8		P	80 - 120
Fenamiphos	92.7		P	80 - 120
Fenbuconazole	84.9		P	80 - 120
Fipronil	86.4		P	80 - 120
Fipronil Desulfinyl	97.7		P	80 - 120
Fipronil Sulfide	98.5		P	80 - 120
Fipronil Sulfone	109		P	80 - 120
Fluazifop-P-butyl	99.7		P	80 - 120
Fludioxonil	94.6		P	80 - 120
Flumioxazin	97.4		P	80 - 120
Flutolanil	106		P	80 - 120
Fluxapyroxad	107		P	80 - 120
Fonofos	94.1		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	97.3		P	80 - 120
Iprodione	93.0		P	80 - 120
Loratadine	82.0		P	80 - 120
Malathion	92.7		P	80 - 120
Metaxyl	88.9		P	80 - 120
Metolachlor	97.9		P	80 - 120
Metribuzin	103		P	80 - 120
Mevinphos	93.4		P	80 - 120
Molinate	87.4		P	80 - 120
Myclobutanil	93.1		P	80 - 120
Naled	98.4		P	80 - 120
Napropamide	101		P	80 - 120
Norflurazon	104		P	80 - 120
Oxadiazon	106		P	80 - 120
Oxyfluorfen	99.9		P	80 - 120
Parathion Ethyl	102		P	80 - 120
Parathion Methyl	80.7		P	80 - 120
Pendimethalin	106		P	80 - 120
Phenytoin	103		P	80 - 120
Phorate	103		P	80 - 120
Prodiamine	117		P	80 - 120
Prometon	100		P	80 - 120
Prometryn	96.9		P	80 - 120
Pronamide	102		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A119814
Included Lab Sample IDs: 2413813

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Propanil	105		P	80 - 120
Propargite	103		P	80 - 120
Propiconazole	88.3		P	80 - 120
Pyraflufen Ethyl	96.1		P	80 - 120
Pyridaben	102		P	80 - 120
Pyriproxyfen	97.6		P	80 - 120
Simazine	91.8		P	80 - 120
Stirophos	93.0		P	80 - 120
Sulfentrazone	98.3		P	80 - 120
Tebuconazole	103		P	80 - 120
Terbufos	103		P	80 - 120
Terbuthylazine	88.3		P	80 - 120
Thiobencarb	101		P	80 - 120
Triadimefon	106		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)	97.3					0.780	
EPA 180.1 Rev. 2.0	Turbidity	97.7					1.01	
EPA 200.7 Rev. 4.4	Calcium	101	112	82.1				4.03
	Iron	104	103	102	102			0.388
	Magnesium	104	98.5	97.2	82.6			0.693
	Potassium	103	100	101	80.9			0.207
	Sodium	101	110	83.4				2.55
	Strontium	102	99.9	103	100			2.57
	Tin	107	103	102	80.4			1.52
	Titanium	103	104	97.3	94.5			2.84
	Vanadium	104	102	104	102			2.08
	Zinc	107	99.3	104	101			2.58
EPA 200.8 Rev. 5.4	Aluminum	100	100	101	101			0.911
	Antimony	104	107	106	104			1.24
	Arsenic	100	103	103	101			0.101
	Barium	103	105	105	103			0.737
	Beryllium	98.7	99.1	99.8	95.9			0.650
	Boron	100	100	101	104			0.648
	Cadmium	99.6	102	99.8	98.9			1.73
	Chromium	96.3	97.1	97.3	98.8			0.246
	Cobalt	101	103	102	102			0.305
	Copper	97.2	97.9	97.1	100			0.775
	Lead	103	105	105	105			0.664
	Manganese	96.7	97.2	97.7	101			0.492
	Molybdenum	98.5	100	101	98.8			0.887
	Nickel	98.0	99.4	101	98.1			1.29
	Selenium	99.3	104	102	103			2.22
	Silver	105	105	104	105			1.35
	Thallium	99.4	102	103	101			1.06
EPA 300.0 Rev. 2.1	Chloride	101	103	103			2.24	
	Sulfate	98.5	99.9	99.4				
EPA 350.1 Rev. 2.0	Ammonia-N	95.2	97.4	99.2				1.72
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103	101	104				1.97
EPA 353.2 Rev. 2.0	NO2NO3-N	104	104	104				0.0
EPA 365.1 Rev. 2.0	Total-P	102	105	107				1.44
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	96.7	95.4	95.5				0.105
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	123	159	149				6.13
	Acetochlor	83.2	108	57.3				36.2
	Alachlor	97.7	106	95.0				11.1
	Ametryn	122	134	127				5.32
	Atrazine	91.2						12.1
	Atrazine Desethyl	94.9	90.1	95.5				4.12
	Avobenzone	180	177	175				0.774
	Azinphos Methyl	105	103	94.0				9.08
	Azoxystrobin	111	110	122				9.66
	Bromacil	115	121	122				0.861
	Butylate	67.9	54.9	61.3				11.0
	Caffeine	86.1	92.3	91.7				0.573
	Carbophenothion	110	117	110				6.54
	Carfentrazone Ethyl	116	129	117				9.53
	Chlorfenapyr	76.2	79.2	87.0				9.38
	Chlorpyrifos Ethyl	87.2	92.0	86.4				6.38

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Chlorpyrifos Methyl	95.9	103	103			0.283
	Coumaphos	131	134	125			6.78
	Cyanazine	172	172	206			18.3
	Cyprodinil	106	114	105			8.89
	Dechlorane 602	115	143	108			27.6
	Dechlorane 603	162	187	185			1.48
	Dechlorane Plus	135	130	123			5.33
	Demeton	81.5	79.9	81.0			1.38
	Diazinon	111	120	112			7.13
	Difenoconazole	114	127	95.8			27.9
	Dimethenamid	94.8	89.7	96.9			7.70
	Dimethomorph	117	173	110			44.3
	Disulfoton	102	105	107			2.52
	Dithiopyr	101	93.1	100			7.07
	EPTC	67.3	58.1	53.5			8.23
	Ethion	70.7	48.1	77.8			47.1
	Ethoprop	93.4	96.6	93.7			3.12
	Etridiazole	76.7	72.3	69.6			3.90
	Fenamiphos	87.5	79.2	95.5			18.6
	Fenbuconazole	83.5	81.9	84.7			3.36
	Fipronil	93.5	104	111			7.04
	Fipronil Desulfinyl	107	106	121			12.4
	Fipronil Sulfide	90.4	92.0	100			8.81
	Fipronil Sulfone	105	97.7	117			17.7
	Fluazifop-P-butyl	76.6	80.4	73.6			8.85
	Fludioxonil	87.7	89.8	94.5			5.03
	Flumioxazin	151	144	176			20.2
	Flutolanil	96.8	79.9	95.1			16.7
	Fluxapyroxad	103	98.9	122			20.7
	Fonofos	91.5	97.0	95.4			1.65
	Hexabromobenzene	109	172	174			1.56
	Hexazinone	99.7	95.6	104			7.66
	Imazalil	84.1	72.3	64.2			11.8
	Iprodione	87.9	87.0	101			14.7
	Loratadine	150	148	157			5.98
	Malathion	102	107	113			5.66
	Metalaxyl	92.3	94.9	98.6			3.84
	Metolachlor	106	98.5	110			4.52
	Metribuzin	97.7	107	102			5.64
	Mevinphos	88.1	93.9	92.2			1.77
	Molinate	64.7	64.8	60.0			7.75
	Myclobutanil	105	120	117			2.62
	Naled	45.2	41.0	42.6			3.84
	Napropamide	89.3	69.7	101			36.3
	Norflurazon	106	113	122			7.65
	Octinoxate	148	154	157			2.27
	Oxadiazon	97.6	98.2	104			5.61
	Oxybenzone	135	146	156			6.73
	Oxyfluorfen	117	107	123			14.1
	Parathion Ethyl	96.9	96.8	101			3.97
	Parathion Methyl	94.8	104	103			0.798
	PBB-153	115	178	180			1.35
	PBDE-47	126	151	139			8.15
	PBDE-99	108	148	134			10.4

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Pendimethalin	149	139	163		16.0
	Pentabromotoluene	130	141	146		3.73
	Phenytoin	119	80.4	102		23.7
	Phorate	98.3	116	99.4		15.4
	Prodiamine	77.9	70.3	100		35.1
	Prometon	113	95.3	107		12.0
	Prometryn	109	108	107		1.01
	Pronamide	115	119	124		4.08
	Propanil	120	127	133		4.50
	Propargite	99.6	72.9	108		39.2
	Propiconazole	89.0	94.0	98.9		5.13
	Pyraflufen Ethyl	76.9	73.7	71.8		2.58
	Pyridaben	107	96.4	116		18.2
	Pyriproxyfen	108	97.6	93.3		4.47
	Simazine	87.3	91.7	97.7		6.32
	Stiropfos	89.5	75.4	102		29.8
	Sulfentrazone	95.4	102	109		7.17
	Tebuconazole	91.3	71.4	108		40.4
	Terbufos	107	118	112		5.47
	Terbutylazine	90.1	95.6	96.5		1.01
	Tetradecachloro-m-terphenyl	220	236	262		10.3
	Thiobencarb	103	110	116		5.46
	Tri-o-cresyl Phosphate	133	142	143		0.603
	Triadimefon	107	116	114		2.06
	Tris(1-chloro-2-propyl) phosphate (TCPP)	115	93.1	96.0		2.84
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	123	131	130		0.812
	Tris(2-chloroethyl) phosphate (TCEP)	118	130	137		4.71
EPA 8321B	2,4-D	113	97.5	95.5		1.64
	2,4,5-T	73.2	84.5	89.9		6.22
	Acesulfame K	113	116	117		0.959
	Acetaminophen	86.4	93.7	86.9		7.51
	Acetamiprid	68.2	44.4	55.8		22.9
	Afidopyropen	63.8	52.6	69.4		27.5
	AMPA	110	94.5	92.1		2.55
	Bentazon	118	79.6	84.6		6.10
	Benzovindiflupyr	81.4	84.4	76.5		9.79
	Carbamazepine	86.4	73.1	72.2		1.29
	Clothianidin	83.1	83.3	80.7		3.17
	Dinotefuran	95.4	69.7	65.7		5.89
	Diuron	104	88.4	82.3		7.14
	Endothall	93.5	94.8	91.2		3.87
	Fenuron	79.7	55.3	55.4		0.0396
	Fluridone	90.6	82.7	74.3		10.6
	Glufosinate	96.2	82.2	85.9		4.44
	Glyphosate	89.6	81.1	86.0		5.86
	Hydrocodone	83.2	65.4	63.9		2.28
	Ibuprofen	89.6	47.6	57.7		19.2
	Imazapyr	102	95.3	91.0		4.53
	Imidacloprid	78.1	109	103		4.91
	Linuron	80.8	77.2	78.7		1.94
	Mandestrobin	86.1	80.8	83.2		2.91

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision SMP	MS
EPA 8321B	MCP	88.1	82.9	82.4			0.530
	Naproxen	45.1	54.3	42.9			23.4
	Primidone	85.8	84.3	76.6			9.63
	Pyraclostrobin	69.0	79.6	79.0			0.862
	Silvex	83.2	73.4	77.5			5.37
	Sucralose	104	126	104			18.3
	Thiamethoxam	77.2	72.7	73.5			1.22
	Tolfenpyrad	48.2	54.1	46.5			15.2
	Triclopyr	73.1	79.4	76.5			3.78
SM 2320 B-2011	Total Alkalinity	99.3				1.13	
SM 2540 C-2015	TDS	96.3				4.68	
SM 2540 D-2015	TSS	95.3					
SM 4500-F- C-2011	Fluoride	105	107	105			1.48
SM 5310 B-2011	Organic Carbon	94.4	95.5	93.5			1.46

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2413802
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2413802
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2413812
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2413812
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2413802
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2413802
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2413803
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2413803
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2413803
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2413803
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2413804
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2413813
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2413813
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2413811
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2413802
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2413812
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2413802
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2413802
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2413802
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2413803

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	06/01/2023			06/01/2023 13:57	Anna M. Plaviak	2413802
EPA 180.1 Rev. 2.0	06/01/2023			06/01/2023 13:25	Chandler E Cox	2413802
EPA 200.7 Rev. 4.4	06/01/2023	06/02/2023 11:55	George D Taylor	06/08/2023 20:03	McKinley C Carter	2413812
EPA 200.8 Rev. 5.4	06/01/2023	06/02/2023 11:55	George D Taylor	06/05/2023 17:41	Conrad Hartmann	2413812
EPA 300.0 Rev. 2.1	06/01/2023			06/05/2023 22:24	James L Waggeberby	2413802
EPA 350.1 Rev. 2.0	06/01/2023			06/05/2023 12:56	Khloe J Berg	2413803
EPA 351.2 Rev. 2.0	06/01/2023	06/12/2023 09:03	Simonne.V. Calhoun	06/12/2023 18:23	Samantha L Bates	2413803
EPA 353.2 Rev. 2.0	06/01/2023			06/07/2023 10:29	Beverly Y. Sanders	2413803
EPA 365.1 Rev. 2.0	06/01/2023	06/02/2023 15:05	Adam P Silver	06/07/2023 12:54	James L Waggeberby	2413803
EPA 365.1 Rev. 2.0 dissolved	06/01/2023			06/01/2023 13:55	Adam P Silver	2413804
EPA 8270E	06/01/2023	06/05/2023 08:00	Rasheda Ghaffari	06/07/2023 19:08	Arthur Maknenko	2413813
	06/01/2023	06/05/2023 08:00	Rasheda Ghaffari	06/08/2023 17:38	Vandana T. Nagar	2413813
	06/01/2023	06/05/2023 08:00	Rasheda Ghaffari	06/12/2023 22:33	Arthur Maknenko	2413813
EPA 8321B	06/01/2023	06/02/2023 09:00	Hoor Shaik	06/06/2023 19:26	Juyoung Kim	2413811
	06/01/2023	06/05/2023 11:00	Touraj Touran	06/05/2023 19:06	Touraj Touran	2413811
	06/01/2023	06/05/2023 11:00	Touraj Touran	06/06/2023 13:30	Touraj Touran	2413811
SM 2320 B-2011	06/01/2023			06/07/2023 03:07	Dale L. Simmons	2413802
SM 2340 B-2011	06/01/2023			06/08/2023 20:03	McKinley C Carter	2413812
SM 2540 C-2015	06/01/2023			06/02/2023 15:32	Yijie Li	2413802
SM 2540 D-2015	06/01/2023			06/02/2023 15:32	Yijie Li	2413802
SM 4500-F- C-2011	06/01/2023			06/07/2023 03:07	Dale L. Simmons	2413802
SM 5310 B-2011	06/01/2023			06/06/2023 15:47	Elise M. Gillis	2413803