

Chemical Analysis Report

CEN-DIST-2023-07-13-03

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

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

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

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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 02-AUG-2023 13:54



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: WILDMERE LAKE AT CENTER

Collection Date/Time: 07/12/2023 11:40

Field ID: G2CE0226

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2423686	DEP SOP: NU-094-1	Color (true)	13		PCU	P432436	
	EPA 180.1 Rev. 2.0	Turbidity	0.65	I	NTU	P432432	
	EPA 300.0 Rev. 2.1	Chloride	16		mg Cl/L	P432672	
		Sulfate	8.4		mg SO4/L	P432675	
	SM 2320 B-2011	Total Alkalinity	45		mg CaCO3/L	P432542	
	SM 2540 C-2015	TDS	92	A	mg/L	P433062	
	SM 2540 D-2015	TSS	2	UA	mg/L	P433041	
2423687	SM 4500-F- C-2011	Fluoride	0.044	I	mg F/L	P432544	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	I	mg N/L	P432641	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.33		mg N/L	P432904	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P432590	
	EPA 365.1 Rev. 2.0	Total-P	0.012		mg P/L	P432555	
2423688	SM 5310 B-2011	Organic Carbon	5.3		mg C/L	P432602	
2423690	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P432441	
	EPA 8321B	2,4-D	0.33		ug/L	P432513	
		Acesulfame K	0.12	I	ug/L	P432522	
		2,4,5-T	0.0040	U	ug/L	P432513	
		AMPA	0.10	U	ug/L	P432522	
		Acetaminophen	0.0080	U	ug/L	P432513	
		Acetamiprid	0.0020	U	ug/L	P432513	
		Endothall	0.25	U	ug/L	P432522	
		Glufosinate	0.10	U	ug/L	P432522	
		Glyphosate	0.10	U	ug/L	P432522	
		Afidopyropen	0.0020	U	ug/L	P432513	
		Bentazon	0.042		ug/L	P432513	
		Sucralose	1.3		ug/L	P432522	
		Benzovindiflupyr	0.0020	U	ug/L	P432513	
		Carbamazepine	0.0016	I	ug/L	P432513	
		Clothianidin	0.0020	U	ug/L	P432513	
		Dinotefuran	0.0020	U	ug/L	P432513	
		Diuron	0.0020	U	ug/L	P432513	
		Fenuron	0.032	U	ug/L	P432513	
		Fluridone	0.0044		ug/L	P432513	
		Imazapyr	0.016	I	ug/L	P432513	
		Hydrocodone	0.0020	U	ug/L	P432513	
		Ibuprofen	0.080	U	ug/L	P432513	
		Imidacloprid	0.0067	I	ug/L	P432513	
		Linuron	0.0040	U	ug/L	P432513	
		Mandestrobin	0.0020	U	ug/L	P432513	
		MCP	0.0020	U	ug/L	P432513	
		Naproxen	0.0080	U	ug/L	P432513	
		Primidone	0.0040	U	ug/L	P432513	
		Pyraclostrobin	0.0020	U	ug/L	P432513	

Field ID: G2CE0226

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2423690	EPA 8321B	Silvex	0.0040	U	ug/L	P432513	
		Thiamethoxam	0.0020	U	ug/L	P432513	
		Tolfenpyrad	0.0020	U	ug/L	P432513	
		Triclopyr	0.0040	U	ug/L	P432513	
2423691	EPA 200.7 Rev. 4.4	Calcium	19.2		mg/L	P432507	
		Iron	30	U	ug/L	P432507	
		Magnesium	1.78		mg/L	P432507	
		Potassium	2.0		mg/L	P432507	
		Sodium	11.2		mg/L	P432507	
		Strontium	49.6		ug/L	P432507	
		Tin	4.4	I	ug/L	P432507	
		Titanium	0.75	U	ug/L	P432507	
		Vanadium	2.0	U	ug/L	P432507	
		Zinc	5.0	U	ug/L	P432507	
	EPA 200.8 Rev. 5.4	Aluminum	11	I	ug/L	P432507	
		Antimony	0.19	I	ug/L	P432507	
		Arsenic	0.62		ug/L	P432507	
		Barium	10.5		ug/L	P432507	
		Beryllium	0.010	U	ug/L	P432507	
		Boron	44.9		ug/L	P432507	
		Cadmium	0.020	U	ug/L	P432507	
		Chromium	0.40	U	ug/L	P432507	
		Cobalt	0.020	U	ug/L	P432507	
		Copper	1.20		ug/L	P432507	
		Lead	0.20	U	ug/L	P432507	
		Manganese	4.56		ug/L	P432507	
		Molybdenum	0.63		ug/L	P432507	
		Nickel	0.50	U	ug/L	P432507	
		Selenium	0.20	U	ug/L	P432507	
		Silver	0.010	U	ug/L	P432507	
		Thallium	0.10	U	ug/L	P432507	
	SM 2340 B-2011	Hardness	55.3		mg/L	P432507	
2423692	EPA 8270E	Oxybenzone**	10	U	ng/L	P432528	
		Acetochlor	0.20	U	ng/L	P432528	
		Octinoxate**	150	U	ng/L	P432528	
		Alachlor	0.41	U	ng/L	P432528	MS
		Avobenzone**	100	U	ng/L	P432528	
		Ametryn	1.1	U	ng/L	P432528	
		Atrazine	13		ng/L	P432528	
		PBDE-47**	4.1	U	ng/L	P432528	
		Atrazine Desethyl	4.8	I	ng/L	P432528	
		PBDE-99**	5.1	U	ng/L	P432528	
		Azinphos Methyl	3.0	UJ	ng/L	P432528	CCV
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P432528	
		Azoxystrobin	0.41	U	ng/L	P432528	

Field ID: G2CE0226

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2423692	EPA 8270E	Bromacil	0.61	U	ng/L	P432528	
		2-Ethylhexyl	12	U	ng/L	P432528	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.20	U	ng/L	P432528	
		Dechlorane Plus**	30	U	ng/L	P432528	
		Caffeine**	23	I	ng/L	P432528	
		Dechlorane 602**	5.1	U	ng/L	P432528	RPD
		Carbophenothion	0.51	U	ng/L	P432528	MS, RPD
		Dechlorane 603**	4.1	U	ng/L	P432528	
		Carfentrazone Ethyl	0.15	U	ng/L	P432528	
		Hexabromobenzene**	6.1	U	ng/L	P432528	
		Chlorfenapyr	0.30	U	ng/L	P432528	RPD
		PBB-153**	8.1	U	ng/L	P432528	
		Chlorpyrifos Ethyl	0.30	U	ng/L	P432528	
		Pentabromotoluene**	3.0	U	ng/L	P432528	
		Chlorpyrifos Methyl	0.10	U	ng/L	P432528	
		Tris(2-chloroethyl) phosphate (TCEP)**	71	U	ng/L	P432528	
		Coumaphos	1.1	U	ng/L	P432528	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	40	I	ng/L	P432528	
		Cyanazine	5.1	U	ng/L	P432528	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.5	U	ng/L	P432528	
		Cyprodinil	0.20	U	ng/L	P432528	
		Tetradecachloro-m-terphenyl**	7.6	UJ	ng/L	P432528	CCV, LCS, RPD
		Demeton	3.5	U	ng/L	P432528	
		Diazinon	0.13	U	ng/L	P432528	
		Difenoconazole	0.61	U	ng/L	P432528	
		Dimethenamid	0.10	U	ng/L	P432528	
		Dimethomorph	0.30	U	ng/L	P432528	
		Disulfoton	0.61	U	ng/L	P432528	
		Dithiopyr	1.0	U	ng/L	P432528	RPD
		EPTC	0.51	U	ng/L	P432528	
		Ethion	0.30	U	ng/L	P432528	
		Ethoprop	0.13	U	ng/L	P432528	
		Etridiazole	0.10	U	ng/L	P432528	
		Fenamiphos	0.46	U	ng/L	P432528	
		Fenbuconazole	0.51	UJ	ng/L	P432528	LCS
		Fipronil	0.20	U	ng/L	P432528	
		Fipronil Desulfinyl**	0.61		ng/L	P432528	
		Fipronil Sulfide	0.20	I	ng/L	P432528	
		Fipronil Sulfone	0.61		ng/L	P432528	
		Fluazifop-P-butyl	0.10	U	ng/L	P432528	
		Fludioxonil	0.10	U	ng/L	P432528	
		Flumioxazin	3.0	U	ng/L	P432528	
		Flutolanil	0.10	U	ng/L	P432528	

Field ID: G2CE0226

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2423692	EPA 8270E	Fluxapyroxad	0.25	U	ng/L	P432528	
		Fonofos	0.15	U	ng/L	P432528	
		Hexazinone	0.51	U	ng/L	P432528	
		Imazalil	0.66	U	ng/L	P432528	
		Iprodione	0.51	U	ng/L	P432528	
		Loratadine**	0.30	U	ng/L	P432528	
		Malathion	0.35	U	ng/L	P432528	
		Metalaxyl	0.51	U	ng/L	P432528	
		Metolachlor	0.76	U	ng/L	P432528	
		Metribuzin	0.41	U	ng/L	P432528	
		Mevinphos	1.0	U	ng/L	P432528	
		Molinate	0.25	U	ng/L	P432528	
		Myclobutanil	0.35	U	ng/L	P432528	
		Naled	2.5	U	ng/L	P432528	
		Napropamide	0.71	U	ng/L	P432528	
		Norflurazon	1.0	U	ng/L	P432528	
		Oxadiazon	0.35	U	ng/L	P432528	
		Oxyfluorfen	0.20	U	ng/L	P432528	
		Parathion Ethyl	0.15	U	ng/L	P432528	
		Parathion Methyl	0.20	U	ng/L	P432528	
		Pendimethalin	0.76	U	ng/L	P432528	
		Phenytoin**	5.4	U	ng/L	P432528	
		Phorate	0.25	U	ng/L	P432528	
		Prodiamine	0.20	U	ng/L	P432528	
		Prometon	3.0	U	ng/L	P432528	
		Prometryn	0.35	U	ng/L	P432528	
		Pronamide	0.10	U	ng/L	P432528	
		Propanil	0.10	U	ng/L	P432528	
		Propargite	0.81	U	ng/L	P432528	
		Propiconazole	0.61	U	ng/L	P432528	
		Pyraflufen Ethyl	0.30	U	ng/L	P432528	RPD
		Pyridaben	4.0	I	ng/L	P432528	
		Pyriproxyfen	0.25	UJ	ng/L	P432528	CCV
		Simazine	0.25	U	ng/L	P432528	
		Stirophos	0.41	U	ng/L	P432528	
		Sulfentrazone	1.4	U	ng/L	P432528	
		Tebuconazole	1.4	U	ng/L	P432528	
		Terbufos	0.20	U	ng/L	P432528	
		Terbuthylazine	0.20	U	ng/L	P432528	
		Thiobencarb	0.51	U	ng/L	P432528	
		Triadimefon	0.15	U	ng/L	P432528	

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: P432436

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P432432

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P432507

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: P432507

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: P432672

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: P432675

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432641

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432904

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432590

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432555

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P432441

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

Reference Method: EPA 8270E
Batch ID: P432528

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: P432528

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: P432528

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: P432528

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: P432528

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: P432513

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P432513

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

Reference Method: EPA 8321B
Batch ID: P432522

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

Reference Method: SM 2320 B-2011
Batch ID: P432542

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

Reference Method: SM 2540 C-2015
Batch ID: P433062

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P433041

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P432544

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P432602

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: P432436

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P432432

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	99.6		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P432507

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	102		P	85 - 115
Iron	104		P	85 - 115
Magnesium	104		P	85 - 115
Potassium	102		P	85 - 115
Sodium	104		P	85 - 115
Strontium	102		P	85 - 115
Tin	99.8		P	85 - 115
Titanium	99.2		P	85 - 115
Vanadium	99.9		P	85 - 115
Zinc	96.9		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P432507

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	101		P	85 - 115
Antimony	100		P	85 - 115
Arsenic	99.6		P	85 - 115
Barium	102		P	85 - 115
Beryllium	96.3		P	85 - 115
Boron	103		P	85 - 115
Cadmium	98.1		P	85 - 115
Chromium	94.9		P	85 - 115
Cobalt	97.2		P	85 - 115
Copper	96.4		P	85 - 115
Lead	91.1		P	85 - 115
Manganese	97.4		P	85 - 115
Molybdenum	97.8		P	85 - 115
Nickel	98.5		P	85 - 115
Selenium	102		P	85 - 115
Silver	101		P	85 - 115
Thallium	99.9		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432672

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P432675

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	99.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P432641

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: P432904

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

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P432590

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: P432555

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P432441

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.1		P	90 - 110

Reference Method: EPA 8270E
 Batch ID: P432528

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	65.1		P	42 - 162
Acetochlor	92.2		P	69 - 123
Alachlor	81.3		P	65 - 118
Ametryn	113		P	58 - 141
Atrazine	85.0		P	73 - 118
Atrazine Desethyl	94.3		P	32 - 125
Avobenzone	126		P	40 - 203
Azinphos Methyl	50.6		P	36 - 197
Azoxystrobin	84.5		P	58 - 226
Bromacil	93.3		P	48 - 120
Butylate	58.1		P	27 - 85.0
Caffeine	82.6		P	40 - 137
Carbophenothion	90.6		P	54 - 132
Carfentrazone Ethyl	96.6		P	60 - 142
Chlorfenapyr	82.2		P	53 - 117
Chlorpyrifos Ethyl	97.7		P	59 - 116

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P432528

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	96.9		P	66 - 119
Coumaphos	52.4		P	11 - 234
Cyanazine	125		P	61 - 248
Cyprodinil	95.0		P	50 - 147
Dechlorane 602	80.7		P	50 - 150
Dechlorane 603	84.4		P	50 - 150
Dechlorane Plus	80.4		P	47 - 182
Demeton	79.3		P	30 - 138
Diazinon	105		P	67 - 126
Difenoconazole	55.5		P	38 - 205
Dimethenamid	77.4		P	57 - 111
Dimethomorph	72.7		P	16 - 212
Disulfoton	95.8		P	46 - 126
Dithiopyr	102		P	62 - 115
EPTC	52.0		P	28 - 80.0
Ethion	82.4		P	24 - 122
Ethoprop	91.3		P	62 - 113
Etridiazole	59.8		P	28 - 92.0
Fenamiphos	93.2		P	57 - 128
Fenbuconazole	29.7		F	52 - 155
Fipronil	76.7		P	63 - 130
Fipronil Desulfinyl	96.6		P	61 - 130
Fipronil Sulfide	87.5		P	56 - 117
Fipronil Sulfone	83.3		P	52 - 118
Fluazifop-P-butyl	111		P	61 - 128
Fludioxonil	79.2		P	59 - 129
Flumioxazin	67.1		P	30 - 250
Flutolanil	85.6		P	53 - 127
Fluxapyroxad	81.0		P	42 - 132
Fonofos	84.3		P	61 - 110
Hexabromobenzene	63.3		P	50 - 150
Hexazinone	101		P	46 - 139
Imazalil	75.5		P	40 - 139
Iprodione	79.9		P	40 - 146
Loratadine	66.9		P	10 - 224
Malathion	82.3		P	61 - 135
Metaxyl	88.9		P	58 - 121
Metolachlor	96.8		P	64 - 118
Metribuzin	125		P	45 - 245
Mevinphos	71.3		P	49 - 118
Molinate	52.6		P	42 - 92.0
Myclobutanil	90.9		P	55 - 127
Naled	33.1		P	10 - 114
Napropamide	91.2		P	39 - 121
Norflurazon	83.8		P	55 - 129
Octinoxate	108		P	26 - 166
Oxadiazon	86.9		P	54 - 115
Oxybenzone	114		P	49 - 135
Oxyfluorfen	111		P	64 - 139
Parathion Ethyl	94.5		P	70 - 111
Parathion Methyl	107		P	76 - 136
PBB-153	77.0		P	50 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P432528

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBDE-47	88.9		P	41 - 148
PBDE-99	69.6		P	38 - 147
Pendimethalin	94.9		P	52 - 118
Pentabromotoluene	79.2		P	50 - 150
Phenytoin	73.4		P	10 - 162
Phorate	89.6		P	40 - 122
Prodiamine	39.3		P	26 - 141
Prometon	103		P	54 - 122
Prometryn	102		P	61 - 128
Pronamide	111		P	72 - 121
Propanil	105		P	45 - 144
Propargite	90.8		P	10 - 199
Propiconazole	62.2		P	56 - 127
Pyraflufen Ethyl	93.0		P	56 - 140
Pyridaben	51.1		P	26 - 211
Pyriproxyfen	67.4		P	33 - 194
Simazine	77.1		P	67 - 121
Stirophos	87.8		P	20 - 142
Sulfentrazone	71.3		P	21 - 144
Tebuconazole	79.4		P	10 - 122
Terbufos	103		P	60 - 129
Terbutylazine	83.7		P	69 - 113
Tetradecachloro-m-terphenyl	59.1		F	70 - 200
Thiobencarb	89.2		P	51 - 120
Tri-o-cresyl Phosphate	106		P	49 - 150
Triadimefon	87.8		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	125		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	98.3		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	112		P	70 - 180

Reference Method: EPA 8321B

Batch ID: P432513

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	87.3		P	40 - 150
2,4,5-T	84.5		P	40 - 150
Acetaminophen	55.9		P	30 - 150
Acetamiprid	58.4		P	40 - 150
Afidopyropen	46.8		P	30 - 150
Bentazon	108		P	30 - 150
Benzovindiflupyr	72.7		P	40 - 150
Carbamazepine	68.4		P	40 - 150
Clothianidin	82.1		P	40 - 150
Dinotefuran	94.7		P	40 - 150
Diuron	47.3		P	40 - 150
Fenuron	83.7		P	40 - 150
Fluridone	75.4		P	40 - 150
Hydrocodone	85.9		P	40 - 150
Ibuprofen	63.7		P	40 - 150
Imazapyr	76.3		P	40 - 150
Imidacloprid	76.5		P	40 - 150
Linuron	69.0		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P432513

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Mandestrobin	70.9		P	40 - 150
MCPD	88.8		P	40 - 150
Naproxen	65.6		P	40 - 150
Primidone	72.7		P	40 - 150
Pyraclostrobin	76.5		P	40 - 150
Silvex	85.5		P	40 - 150
Thiamethoxam	69.7		P	40 - 150
Tolfenpyrad	53.5		P	30 - 150
Triclopyr	83.1		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P432522

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	90.2		P	40 - 150
AMPA	84.6		P	40 - 150
Endothall	87.2		P	40 - 150
Glufosinate	91.6		P	40 - 150
Glyphosate	98.1		P	40 - 150
Sucralose	89.1		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P432542

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.7		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P433062

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	96.5		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P433041

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	103		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P432544

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P432602

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	93.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P432507

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423383	Calcium	105	107	P/P	80 - 120
2423383	Iron	107	108	P/P	80 - 120
2423383	Magnesium	106	107	P/P	80 - 120
2423383	Potassium	109	110	P/P	80 - 120
2423383	Sodium	105	106	P/P	80 - 120
2423383	Strontium	104	104	P/P	80 - 120
2423383	Tin	105	103	P/P	80 - 120
2423383	Titanium	105	102	P/P	80 - 120
2423383	Vanadium	105	104	P/P	80 - 120
2423383	Zinc	102	100	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P432507

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423383	Aluminum	100	101	P/P	80 - 120
2423383	Antimony	101	102	P/P	80 - 120
2423383	Arsenic	99.0	98.7	P/P	80 - 120
2423383	Barium	103	103	P/P	80 - 120
2423383	Beryllium	97.9	98.3	P/P	80 - 120
2423383	Boron	103	104	P/P	80 - 120
2423383	Cadmium	97.7	102	P/P	80 - 120
2423383	Chromium	94.8	96.6	P/P	80 - 120
2423383	Cobalt	95.2	96.7	P/P	80 - 120
2423383	Copper	97.1	97.1	P/P	80 - 120
2423383	Lead	92.9	93.8	P/P	80 - 120
2423383	Manganese	95.9	97.4	P/P	80 - 120
2423383	Molybdenum	98.2	97.9	P/P	80 - 120
2423383	Nickel	96.6	97.3	P/P	80 - 120
2423383	Selenium	98.9	98.7	P/P	80 - 120
2423383	Silver	102	102	P/P	80 - 120
2423383	Thallium	101	103	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P432672

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423564	Chloride	106		P	90 - 110
2423697	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P432675

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423564	Sulfate	100		P	90 - 110
2423697	Sulfate	93.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P432641

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423695	Ammonia-N	97.4	97.8	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432904

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423687	Kjeldahl Nitrogen	105	95.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432590

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423442	NO2NO3-N	99.0	98.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432555

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423614	Total-P	103	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P432441

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423688	O-Phosphate-P	97.0	98.3	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P432528

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2424015	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	108	92.7	P/P	26 - 165
2424015	Acetochlor	90.5	90.4	P/P	67 - 124
2424015	Alachlor	116	123	P/F	60 - 120
2424015	Ametryn	113	109	P/P	54 - 216
2424015	Atrazine Desethyl	88.3	112	P/P	15 - 122
2424015	Avobenzone	118	110	P/P	37 - 178
2424015	Azinphos Methyl	64.2	66.0	P/P	40 - 292
2424015	Bromacil	104	107	P/P	45 - 127
2424015	Butylate	75.1	52.2	P/P	20 - 83.0
2424015	Carbophenothion	90.8	129	P/F	57 - 127
2424015	Carfentrazone Ethyl	103	132	P/P	51 - 141
2424015	Chlorfenapyr	79.2	105	P/P	46 - 111
2424015	Chlorpyrifos Ethyl	101	104	P/P	52 - 120
2424015	Chlorpyrifos Methyl	75.8	84.7	P/P	63 - 119
2424015	Coumaphos	121	132	P/P	10 - 228
2424015	Cyanazine	180	194	P/P	59 - 241
2424015	Cyprodinil	87.2	110	P/P	47 - 146
2424015	Dechlorane 602	92.1	65.2	P/P	50 - 150
2424015	Dechlorane 603	88.0	75.9	P/P	50 - 150
2424015	Dechlorane Plus	72.4	71.2	P/P	50 - 150
2424015	Demeton	78.5	85.4	P/P	40 - 136
2424015	Diazinon	86.5	108	P/P	69 - 132
2424015	Difenoconazole	130	104	P/P	57 - 258
2424015	Dimethenamid	74.6	76.3	P/P	54 - 110
2424015	Dimethomorph	170	160	P/P	28 - 210
2424015	Disulfoton	90.8	98.6	P/P	43 - 133
2424015	Dithiopyr	68.9	51.3	P/P	39 - 116
2424015	EPTC	62.8	48.2	P/P	20 - 78.0

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P432528

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2424015	Ethion	75.4	50.7	P/P	17 - 119
2424015	Ethoprop	90.9	101	P/P	66 - 120
2424015	Etridiazole	79.8	64.8	P/P	28 - 96.0
2424015	Fenamiphos	113	117	P/P	41 - 126
2424015	Fenbuconazole	76.5	77.8	P/P	42 - 169
2424015	Fipronil	91.5	108	P/P	61 - 132
2424015	Fipronil Desulfinyl	80.9	93.1	P/P	56 - 132
2424015	Fipronil Sulfide	92.1	113	P/P	48 - 119
2424015	Fipronil Sulfone	103	99.8	P/P	42 - 131
2424015	Fluazifop-P-butyl	86.8	119	P/P	53 - 131
2424015	Fludioxonil	68.8	78.8	P/P	56 - 127
2424015	Flumioxazin	153	115	P/P	19 - 300
2424015	Flutolanil	90.5	98.0	P/P	41 - 127
2424015	Fluxapyroxad	121	93.2	P/P	42 - 172
2424015	Fonofos	70.3	91.3	P/P	59 - 113
2424015	Hexabromobenzene	109	111	P/P	50 - 150
2424015	Hexazinone	103	101	P/P	66 - 122
2424015	Imazalil	90.7	86.3	P/P	21 - 283
2424015	Iprodione	101	92.8	P/P	43 - 150
2424015	Loratadine	150	140	P/P	23 - 201
2424015	Malathion	75.9	78.4	P/P	58 - 136
2424015	Metalaxyl	97.3	88.7	P/P	55 - 120
2424015	Metribuzin	93.8	99.7	P/P	58 - 294
2424015	Mevinphos	85.3	86.6	P/P	50 - 126
2424015	Molinate	63.9	54.1	P/P	42 - 93.0
2424015	Myclobutanil	99.4	106	P/P	55 - 125
2424015	Naled	33.9	42.4	P/P	18 - 200
2424015	Napropamide	88.3	78.8	P/P	39 - 110
2424015	Norflurazon	97.1	112	P/P	48 - 128
2424015	Octinoxate	103	108	P/P	21 - 159
2424015	Oxybenzone	110	112	P/P	41 - 142
2424015	Oxyfluorfen	128	132	P/P	64 - 153
2424015	Parathion Ethyl	104	101	P/P	69 - 114
2424015	Parathion Methyl	91.4	105	P/P	79 - 139
2424015	PBB-153	106	99.9	P/P	50 - 150
2424015	PBDE-47	104	81.6	P/P	27 - 144
2424015	PBDE-99	97.6	74.3	P/P	18 - 150
2424015	Pendimethalin	95.0	106	P/P	50 - 139
2424015	Pentabromotoluene	92.9	96.8	P/P	50 - 150
2424015	Phenytoin	45.1	21.6	P/P	10 - 146
2424015	Phorate	89.3	100	P/P	54 - 161
2424015	Prodiamine	39.4	50.9	P/P	30 - 161
2424015	Prometon	128	126	P/P	45 - 134
2424015	Prometryn	63.2	56.5	P/P	45 - 137
2424015	Pronamide	113	117	P/P	65 - 133
2424015	Propanil	100	105	P/P	49 - 142
2424015	Propargite	111	84.7	P/P	10 - 203
2424015	Pyraflufen Ethyl	83.8	120	P/P	34 - 153
2424015	Pyriproxyfen	93.6	84.9	P/P	33 - 180
2424015	Simazine	124	126	P/P	51 - 157
2424015	Stirophos	39.0	25.3	P/P	10 - 128
2424015	Sulfentrazone	57.1	67.9	P/P	53 - 186

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P432528

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2424015	Tebuconazole	100	63.0	P/P	10 - 133
2424015	Terbufos	97.0	120	P/P	65 - 139
2424015	Terbutylazine	73.6	89.7	P/P	66 - 117
2424015	Tetradecachloro-m-terphenyl	77.6	105	P/P	70 - 200
2424015	Thiobencarb	93.2	97.9	P/P	51 - 119
2424015	Tri-o-cresyl Phosphate	108	108	P/P	31 - 144
2424015	Triadimefon	94.2	98.9	P/P	48 - 119
2424015	Tris(1-chloro-2-propyl) phosphate (TCPP)	112	118	P/P	50 - 150
2424015	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	96.4	95.6	P/P	50 - 150
2424015	Tris(2-chloroethyl) phosphate (TCEP)	108	111	P/P	70 - 180

Reference Method: EPA 8321B

Batch ID: P432513

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423624	2,4-D	100	90.6	P/P	40 - 150
2423624	2,4,5-T	98.0	87.2	P/P	40 - 150
2423624	Acetaminophen	61.8	58.4	P/P	30 - 150
2423624	Acetamiprid	86.6	88.0	P/P	40 - 150
2423624	Afidopyropen	90.4	84.2	P/P	30 - 150
2423624	Bentazon	111	112	P/P	30 - 150
2423624	Benzovindiflupyr	79.8	80.5	P/P	40 - 150
2423624	Carbamazepine	75.9	64.5	P/P	40 - 150
2423624	Clothianidin	89.3	81.7	P/P	40 - 150
2423624	Dinotefuran	89.6	81.9	P/P	40 - 150
2423624	Diuron	49.9	60.2	P/P	40 - 150
2423624	Fenuron	76.8	74.5	P/P	40 - 150
2423624	Fluridone	88.2	87.6	P/P	40 - 150
2423624	Hydrocodone	82.2	83.3	P/P	40 - 150
2423624	Ibuprofen	75.2	72.0	P/P	40 - 150
2423624	Imazapyr	99.0	87.2	P/P	40 - 150
2423624	Imidacloprid	104	96.7	P/P	40 - 150
2423624	Linuron	64.4	68.5	P/P	40 - 150
2423624	Mandestrobin	85.2	78.6	P/P	40 - 150
2423624	MCPP	108	101	P/P	40 - 150
2423624	Naproxen	65.9	68.3	P/P	40 - 150
2423624	Primidone	71.2	74.2	P/P	40 - 150
2423624	Pyraclostrobin	87.0	83.4	P/P	40 - 150
2423624	Silvex	89.3	91.1	P/P	40 - 150
2423624	Thiamethoxam	71.6	65.3	P/P	40 - 150
2423624	Tolfenpyrad	56.4	50.9	P/P	30 - 150
2423624	Triclopyr	93.3	94.3	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P432522

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423690	Acesulfame K	113	118	P/P	40 - 150
2423690	AMPA	93.3	73.2	P/P	40 - 150
2423690	Endothall	90.6	93.4	P/P	40 - 150
2423690	Glufosinate	67.4	73.6	P/P	40 - 150
2423690	Glyphosate	73.8	74.9	P/P	40 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P432522

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423690	Sucralose	96.3	99.5	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P432544

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423694	Fluoride	101	103	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P432602

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423687	Organic Carbon	93.2	95.5	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P432436

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423694	Color (true)	0.451	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P432432

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423694	Turbidity	2.82	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P432507

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423383	Calcium	1.44	Spike	P	0 - 20
2423383	Iron	0.992	Spike	P	0 - 20
2423383	Magnesium	1.01	Spike	P	0 - 20
2423383	Potassium	0.466	Spike	P	0 - 20
2423383	Sodium	0.514	Spike	P	0 - 20
2423383	Strontium	0.380	Spike	P	0 - 20
2423383	Tin	2.24	Spike	P	0 - 20
2423383	Titanium	2.92	Spike	P	0 - 20
2423383	Vanadium	1.66	Spike	P	0 - 20
2423383	Zinc	1.78	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P432507

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423383	Aluminum	1.38	Spike	P	0 - 20
2423383	Antimony	0.845	Spike	P	0 - 20
2423383	Arsenic	0.275	Spike	P	0 - 20
2423383	Barium	0.167	Spike	P	0 - 20
2423383	Beryllium	0.420	Spike	P	0 - 20
2423383	Boron	0.361	Spike	P	0 - 20
2423383	Cadmium	4.08	Spike	P	0 - 20
2423383	Chromium	1.88	Spike	P	0 - 20
2423383	Cobalt	1.60	Spike	P	0 - 20
2423383	Copper	0.0177	Spike	P	0 - 20
2423383	Lead	0.959	Spike	P	0 - 20
2423383	Manganese	1.31	Spike	P	0 - 20
2423383	Molybdenum	0.270	Spike	P	0 - 20
2423383	Nickel	0.660	Spike	P	0 - 20
2423383	Selenium	0.201	Spike	P	0 - 20
2423383	Silver	0.114	Spike	P	0 - 20
2423383	Thallium	1.61	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432672

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423564	Chloride	1.43	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432675

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423564	Sulfate	1.39	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432641

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423695	Ammonia-N	0.256	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432904

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423687	Kjeldahl Nitrogen	8.43	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432590

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423442	NO2NO3-N	0.506	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432555

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423614	Total-P	1.47	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P432441

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423688	O-Phosphate-P	1.33	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P432528

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2424015	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	14.8	Spike	P	0 - 37
2424015	Acetochlor	0.0708	Spike	P	0 - 28

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P432528

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2424015	Alachlor	5.74	Spike	P	0 - 30
2424015	Ametryn	3.84	Spike	P	0 - 32
2424015	Atrazine	4.49	Spike	P	0 - 41
2424015	Atrazine Desethyl	13.4	Spike	P	0 - 36
2424015	Avobenzone	7.21	Spike	P	0 - 36
2424015	Azinphos Methyl	2.82	Spike	P	0 - 75
2424015	Azoxystrobin	22.4	Spike	P	0 - 39
2424015	Bromacil	2.15	Spike	P	0 - 33
2424015	Butylate	35.9	Spike	P	0 - 44
2424015	Caffeine	7.26	Spike	P	0 - 74
2424015	Carbophenothion	34.6	Spike	F	0 - 25
2424015	Carfentrazone Ethyl	24.8	Spike	P	0 - 27
2424015	Chlorfenapyr	27.9	Spike	F	0 - 24
2424015	Chlorpyrifos Ethyl	2.17	Spike	P	0 - 26
2424015	Chlorpyrifos Methyl	11.1	Spike	P	0 - 26
2424015	Coumaphos	8.28	Spike	P	0 - 28
2424015	Cyanazine	7.55	Spike	P	0 - 48
2424015	Cyprodinil	23.4	Spike	P	0 - 29
2424015	Dechlorane 602	34.1	Spike	F	0 - 30
2424015	Dechlorane 603	14.8	Spike	P	0 - 30
2424015	Dechlorane Plus	1.68	Spike	P	0 - 30
2424015	Demeton	8.43	Spike	P	0 - 33
2424015	Diazinon	22.5	Spike	P	0 - 29
2424015	Difenoconazole	22.3	Spike	P	0 - 34
2424015	Dimethenamid	2.23	Spike	P	0 - 39
2424015	Dimethomorph	5.94	Spike	P	0 - 51
2424015	Disulfoton	8.26	Spike	P	0 - 30
2424015	Dithiopyr	29.3	Spike	F	0 - 26
2424015	EPTC	26.2	Spike	P	0 - 43
2424015	Ethion	39.1	Spike	P	0 - 79
2424015	Ethoprop	10.1	Spike	P	0 - 29
2424015	Etridiazole	20.7	Spike	P	0 - 33
2424015	Fenamiphos	3.28	Spike	P	0 - 40
2424015	Fenbuconazole	1.70	Spike	P	0 - 74
2424015	Fipronil	14.7	Spike	P	0 - 29
2424015	Fipronil Desulfinyl	9.81	Spike	P	0 - 32
2424015	Fipronil Sulfide	14.4	Spike	P	0 - 30
2424015	Fipronil Sulfone	2.33	Spike	P	0 - 33
2424015	Fluazifop-P-butyl	31.3	Spike	P	0 - 38
2424015	Fludioxonil	13.5	Spike	P	0 - 29
2424015	Flumioxazin	28.6	Spike	P	0 - 51
2424015	Flutolanil	7.97	Spike	P	0 - 25
2424015	Fluxapyroxad	14.8	Spike	P	0 - 45
2424015	Fonofos	25.9	Spike	P	0 - 27
2424015	Hexabromobenzene	2.31	Spike	P	0 - 30
2424015	Hexazinone	1.56	Spike	P	0 - 30
2424015	Imazalil	4.95	Spike	P	0 - 100
2424015	Iprodione	8.47	Spike	P	0 - 33
2424015	Loratadine	6.31	Spike	P	0 - 56
2424015	Malathion	3.29	Spike	P	0 - 37
2424015	Metalaxyl	9.26	Spike	P	0 - 40

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P432528

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2424015	Metolachlor	1.35	Spike	P	0 - 29
2424015	Metribuzin	6.07	Spike	P	0 - 45
2424015	Mevinphos	1.46	Spike	P	0 - 29
2424015	Molinate	16.7	Spike	P	0 - 33
2424015	Myclobutanil	4.61	Spike	P	0 - 26
2424015	Naled	22.2	Spike	P	0 - 37
2424015	Napropamide	11.3	Spike	P	0 - 44
2424015	Norflurazon	14.5	Spike	P	0 - 30
2424015	Octinoxate	4.50	Spike	P	0 - 45
2424015	Oxadiazon	0.657	Spike	P	0 - 28
2424015	Oxybenzone	1.34	Spike	P	0 - 46
2424015	Oxyfluorfen	3.23	Spike	P	0 - 28
2424015	Parathion Ethyl	2.68	Spike	P	0 - 31
2424015	Parathion Methyl	13.9	Spike	P	0 - 29
2424015	PBB-153	5.91	Spike	P	0 - 30
2424015	PBDE-47	23.7	Spike	P	0 - 36
2424015	PBDE-99	27.2	Spike	P	0 - 40
2424015	Pendimethalin	11.2	Spike	P	0 - 33
2424015	Pentabromotoluene	4.04	Spike	P	0 - 30
2424015	Phenytoin	70.7	Spike	P	0 - 100
2424015	Phorate	11.3	Spike	P	0 - 36
2424015	Prodiamine	25.5	Spike	P	0 - 71
2424015	Prometon	1.62	Spike	P	0 - 36
2424015	Prometryn	11.2	Spike	P	0 - 28
2424015	Pronamide	3.36	Spike	P	0 - 24
2424015	Propanil	3.74	Spike	P	0 - 28
2424015	Propargite	26.6	Spike	P	0 - 43
2424015	Propiconazole	23.0	Spike	P	0 - 33
2424015	Pyraflufen Ethyl	35.7	Spike	F	0 - 29
2424015	Pyridaben	6.16	Spike	P	0 - 30
2424015	Pyriproxyfen	9.76	Spike	P	0 - 79
2424015	Simazine	1.47	Spike	P	0 - 29
2424015	Stirophos	42.4	Spike	P	0 - 61
2424015	Sulfentrazone	12.0	Spike	P	0 - 33
2424015	Tebuconazole	37.0	Spike	P	0 - 69
2424015	Terbufos	21.6	Spike	P	0 - 29
2424015	Terbuthylazine	19.7	Spike	P	0 - 32
2424015	Tetradecachloro-m-terphenyl	30.4	Spike	F	0 - 30
2424015	Thiobencarb	4.93	Spike	P	0 - 26
2424015	Tri-o-cresyl Phosphate	0.802	Spike	P	0 - 33
2424015	Triadimefon	4.47	Spike	P	0 - 28
2424015	Tris(1-chloro-2-propyl) phosphate (TCPP)	2.01	Spike	P	0 - 30
2424015	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	0.744	Spike	P	0 - 30
2424015	Tris(2-chloroethyl) phosphate (TCEP)	3.16	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P432513

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423624	2,4-D	9.87	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8321B

Batch ID: P432513

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423624	2,4,5-T	11.7	Spike	P	0 - 30
2423624	Acetaminophen	5.63	Spike	P	0 - 30
2423624	Acetamiprid	1.54	Spike	P	0 - 30
2423624	Afidopyropen	7.09	Spike	P	0 - 30
2423624	Bentazon	0.403	Spike	P	0 - 30
2423624	Benzovindiflupyr	0.910	Spike	P	0 - 30
2423624	Carbamazepine	16.2	Spike	P	0 - 30
2423624	Clothianidin	8.82	Spike	P	0 - 30
2423624	Dinotefuran	8.90	Spike	P	0 - 30
2423624	Diuron	18.7	Spike	P	0 - 30
2423624	Fenuron	3.12	Spike	P	0 - 30
2423624	Fluridone	0.668	Spike	P	0 - 30
2423624	Hydrocodone	1.33	Spike	P	0 - 30
2423624	Ibuprofen	4.41	Spike	P	0 - 30
2423624	Imazapyr	12.7	Spike	P	0 - 30
2423624	Imidacloprid	6.98	Spike	P	0 - 30
2423624	Linuron	6.25	Spike	P	0 - 30
2423624	Mandestrobin	8.02	Spike	P	0 - 30
2423624	MCPP	6.52	Spike	P	0 - 30
2423624	Naproxen	3.64	Spike	P	0 - 30
2423624	Primidone	4.10	Spike	P	0 - 30
2423624	Pyraclostrobin	4.19	Spike	P	0 - 30
2423624	Silvex	1.93	Spike	P	0 - 30
2423624	Thiamethoxam	9.16	Spike	P	0 - 30
2423624	Tolfenpyrad	10.3	Spike	P	0 - 30
2423624	Triclopyr	1.12	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P432522

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423690	Acesulfame K	4.04	Spike	P	0 - 30
2423690	AMPA	24.1	Spike	P	0 - 30
2423690	Endothall	3.08	Spike	P	0 - 30
2423690	Glufosinate	8.77	Spike	P	0 - 30
2423690	Glyphosate	1.43	Spike	P	0 - 30
2423690	Sucralose	2.14	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P432542

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423694	Total Alkalinity	1.33	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015

Batch ID: P433062

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: P433062

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423686	TDS	2.17	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P432544

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423694	Fluoride	1.51	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P432602

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423687	Organic Carbon	1.86	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2423690
Field Sample ID: G2CE0226

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	106	P	30 - 160
EPA 8321B	Acetaminophen-d4	57.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	56.7	P	30 - 160
EPA 8321B	Diuron-d6	40.9	P	30 - 160
EPA 8321B	Endothall-d6	97.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	79.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	59.3	P	30 - 160
EPA 8321B	Primidone-d5	71.6	P	30 - 160
EPA 8321B	Sucralose-d6	100	P	30 - 160
EPA 8321B	Sucralose-d6	114	P	30 - 160

Lab Sample ID: 2423692
Field Sample ID: G2CE0226

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	70.0	P	20 - 200
EPA 8270E	Simazine-d10	69.6	P	62 - 142
EPA 8270E	Terbufos-d10	71.1	P	58 - 132
EPA 8270E	Terphenyl-d14	87.9	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A120353

Included Lab Sample IDs: 2423686

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

Reference Method: DEP SOP: NU-094-1

Run ID: A120354

Included Lab Sample IDs: 2423686

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A120355

Included Lab Sample IDs: 2423688

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.0	98.8	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A120412

Included Lab Sample IDs: 2423686

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.5	94.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A120412

Included Lab Sample IDs: 2423686

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

Reference Method: EPA 8321B

Run ID: A120416

Included Lab Sample IDs: 2423690

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	88.3	82.5	P/P	60 - 160
Endothall	88.7	90.9	P/P	60 - 160
Glufosinate	89.9	77.0	P/P	60 - 160
Glyphosate	93.5	89.7	P/P	60 - 160

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A120440

Included Lab Sample IDs: 2423687

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	103	103	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A120443

Included Lab Sample IDs: 2423691

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Antimony	99.7	98.5	P/P	90 - 110
Arsenic	98.7	101	P/P	90 - 110
Barium	99.6	101	P/P	90 - 110
Beryllium	98.1	98.7	P/P	90 - 110
Boron	101	107	P/P	90 - 110
Cadmium	100	98.2	P/P	90 - 110
Chromium	97.5	92.1	P/P	90 - 110
Cobalt	96.3	97.3	P/P	90 - 110
Copper	95.7	96.8	P/P	90 - 110
Lead	90.6	90.6	P/P	90 - 110
Manganese	97.6	94.1	P/P	90 - 110
Molybdenum	98.2	97.9	P/P	90 - 110
Nickel	96.9	98.4	P/P	90 - 110
Selenium	100	101	P/P	90 - 110
Silver	99.0	99.2	P/P	90 - 110
Thallium	99.4	98.4	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A120444

Included Lab Sample IDs: 2423687

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.6	96.1	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A120445

Included Lab Sample IDs: 2423690

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	101	88.5	P/P	50 - 150
2,4,5-T	96.3	98.5	P/P	50 - 150
Acetaminophen	84.7	82.2	P/P	60 - 160
Acetamiprid	114	122	P/P	50 - 150
Afidopyropen	108	104	P/P	50 - 150
Bentazon	146	129	P/P	50 - 160
Benzovindiflupyr	116	107	P/P	50 - 150
Carbamazepine	113	106	P/P	60 - 150
Clothianidin	108	105	P/P	60 - 150
Dinotefuran	122	122	P/P	50 - 150
Diuron	141	112	P/P	60 - 160
Fenuron	113	110	P/P	60 - 150
Fluridone	115	114	P/P	60 - 160
Hydrocodone	109	125	P/P	60 - 150
Ibuprofen	103	86.7	P/P	50 - 160
Imazapyr	98.2	99.4	P/P	50 - 150
Imidacloprid	98.6	98.6	P/P	60 - 150
Linuron	96.3	101	P/P	60 - 150
Mandestrobin	116	108	P/P	50 - 150
MCPP	100	101	P/P	50 - 150
Naproxen	118	134	P/P	50 - 160
Primidone	103	94.0	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A120445
Included Lab Sample IDs: 2423690

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraclostrobin	118	121	P/P	60 - 150
Silvex	105	104	P/P	50 - 150
Thiamethoxam	87.5	104	P/P	50 - 150
Tolfenpyrad	102	107	P/P	60 - 150
Triclopyr	99.5	92.5	P/P	50 - 150

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A120453
Included Lab Sample IDs: 2423687

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	95.5	96.7	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A120476
Included Lab Sample IDs: 2423691

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	102	104	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A120479
Included Lab Sample IDs: 2423686

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

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A120480
Included Lab Sample IDs: 2423691

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	98.8	98.4	P/P	90 - 110
Iron	101	99.4	P/P	90 - 110
Magnesium	100	98.6	P/P	90 - 110
Potassium	99.8	98.8	P/P	90 - 110
Sodium	99.6	99.8	P/P	90 - 110
Strontium	103	102	P/P	90 - 110
Tin	101	101	P/P	90 - 110
Titanium	102	99.8	P/P	90 - 110
Vanadium	102	101	P/P	90 - 110
Zinc	100	99.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A120490
Included Lab Sample IDs: 2423687

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	98.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A120504
Included Lab Sample IDs: 2423690

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	99.5	105	P/P	60 - 160
Sucralose	102	95.5	P/P	60 - 160

Reference Method: EPA 8270E
Run ID: A120546
Included Lab Sample IDs: 2423692

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	88.5		P	80 - 120
Alachlor	92.5		P	80 - 120
Ametryn	98.8		P	80 - 120
Atrazine	92.1		P	80 - 120
Atrazine Desethyl	115		P	80 - 120
Azinphos Methyl	186*		F	80 - 120
Azoxystrobin	98.5		P	80 - 120
Bromacil	99.4		P	80 - 120
Butylate	98.5		P	80 - 120
Caffeine	105		P	80 - 120
Carbophenothion	100		P	80 - 120
Carfentrazone Ethyl	101		P	80 - 120
Chlorfenapyr	86.2		P	80 - 120
Chlorpyrifos Ethyl	90.0		P	80 - 120
Chlorpyrifos Methyl	98.7		P	80 - 120
Coumaphos	98.9		P	80 - 120
Cyanazine	113		P	80 - 120
Cyprodinil	105		P	80 - 120
Demeton	103		P	80 - 120
Diazinon	101		P	80 - 120
Difenoconazole	99.4		P	80 - 120
Dimethenamid	98.5		P	80 - 120
Dimethomorph	90.6		P	80 - 120
Disulfoton	102		P	80 - 120
Dithiopyr	111		P	80 - 120
EPTC	96.4		P	80 - 120
Ethion	90.5		P	80 - 120
Ethoprop	95.2		P	80 - 120
Etridiazole	103		P	80 - 120
Fenamiphos	92.8		P	80 - 120
Fenbuconazole	85.0		P	80 - 120
Fipronil	91.4		P	80 - 120
Fipronil Desulfinyl	101		P	80 - 120
Fipronil Sulfide	107		P	80 - 120
Fipronil Sulfone	101		P	80 - 120
Fluazifop-P-butyl	96.5		P	80 - 120
Fludioxonil	102		P	80 - 120
Flumioxazin	96.0		P	80 - 120
Flutolanil	104		P	80 - 120
Fluxapyroxad	105		P	80 - 120
Fonofos	97.1		P	80 - 120
Hexazinone	102		P	80 - 120
Imazalil	105		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A120546
Included Lab Sample IDs: 2423692

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Iprodione	90.9		P	80 - 120
Loratadine	90.3		P	80 - 120
Malathion	84.9		P	80 - 120
Metalaxyl	95.6		P	80 - 120
Metolachlor	97.8		P	80 - 120
Metribuzin	101		P	80 - 120
Mevinphos	84.5		P	80 - 120
Molinate	82.7		P	80 - 120
Myclobutanil	93.6		P	80 - 120
Naled	106		P	80 - 120
Napropamide	108		P	80 - 120
Norflurazon	106		P	80 - 120
Oxadiazon	103		P	80 - 120
Oxyfluorfen	101		P	80 - 120
Parathion Ethyl	95.8		P	80 - 120
Parathion Methyl	87.1		P	80 - 120
Pendimethalin	98.1		P	80 - 120
Phenytol	100		P	80 - 120
Phorate	99.9		P	80 - 120
Prodiamine	102		P	80 - 120
Prometon	101		P	80 - 120
Prometryn	99.3		P	80 - 120
Pronamide	104		P	80 - 120
Propanil	117		P	80 - 120
Propargite	99.2		P	80 - 120
Propiconazole	87.9		P	80 - 120
Pyraflufen Ethyl	103		P	80 - 120
Pyridaben	99.1		P	80 - 120
Pyriproxyfen	152*		F	80 - 120
Simazine	84.1		P	80 - 120
Stirophos	91.5		P	80 - 120
Sulfentrazone	95.2		P	80 - 120
Tebuconazole	104		P	80 - 120
Terbufos	102		P	80 - 120
Terbuthylazine	90.5		P	80 - 120
Thiobencarb	104		P	80 - 120
Triadimefon	107		P	80 - 120

Reference Method: EPA 8270E
Run ID: A120570
Included Lab Sample IDs: 2423692

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.9		P	80 - 120
Avobenzone	99.1		P	80 - 120
Dechlorane 602	99.0		P	80 - 120
Dechlorane 603	95.4		P	80 - 120
Dechlorane Plus	95.8		P	80 - 120
Hexabromobenzene	96.8		P	80 - 120
Octinoxate	92.3		P	80 - 120
Oxybenzone	95.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A120570
Included Lab Sample IDs: 2423692

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PBB-153	97.4		P	80 - 120
PBDE-47	96.2		P	80 - 120
PBDE-99	97.5		P	80 - 120
Pentabromotoluene	97.0		P	80 - 120
Tetradecachloro-m-terphenyl	125*		F	80 - 120
Tri-o-cresyl Phosphate	100		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	91.2		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	93.0		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	93.0		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A120625
Included Lab Sample IDs: 2423687

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	108	105	P/P	90 - 110

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	101				0.451	
EPA 180.1 Rev. 2.0	Turbidity	99.6				2.82	
EPA 200.7 Rev. 4.4	Calcium	102	105	107			1.44
	Iron	104	107	108			0.992
	Magnesium	104	106	107			1.01
	Potassium	102	109	110			0.466
	Sodium	104	105	106			0.514
	Strontium	102	104	104			0.380
	Tin	99.8	105	103			2.24
	Titanium	99.2	105	102			2.92
	Vanadium	99.9	105	104			1.66
	Zinc	96.9	102	100			1.78
EPA 200.8 Rev. 5.4	Aluminum	101	100	101			1.38
	Antimony	100	101	102			0.845
	Arsenic	99.6	99.0	98.7			0.275
	Barium	102	103	103			0.167
	Beryllium	96.3	97.9	98.3			0.420
	Boron	103	103	104			0.361
	Cadmium	98.1	97.7	102			4.08
	Chromium	94.9	94.8	96.6			1.88
	Cobalt	97.2	95.2	96.7			1.60
	Copper	96.4	97.1	97.1			0.0177
	Lead	91.1	92.9	93.8			0.959
	Manganese	97.4	95.9	97.4			1.31
	Molybdenum	97.8	98.2	97.9			0.270
	Nickel	98.5	96.6	97.3			0.660
	Selenium	102	98.9	98.7			0.201
	Silver	101	102	102			0.114
	Thallium	99.9	101	103			1.61
EPA 300.0 Rev. 2.1	Chloride	103	102	106		1.43	
	Sulfate	99.6	100	93.1		1.39	
EPA 350.1 Rev. 2.0	Ammonia-N	93.6	97.4	97.8			0.256
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	97.1	105	95.1			8.43
EPA 353.2 Rev. 2.0	NO2NO3-N	102	99.0	98.5			0.506
EPA 365.1 Rev. 2.0	Total-P	98.7	103	102			1.47
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.1	97.0	98.3			1.33
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	65.1	108	92.7			14.8
	Acetochlor	92.2	90.5	90.4			0.0708
	Alachlor	81.3	116	123			5.74
	Ametryn	113	113	109			3.84
	Atrazine	85.0					4.49
	Atrazine Desethyl	94.3	88.3	112			13.4
	Avobenzone	126	118	110			7.21
	Azinphos Methyl	50.6	64.2	66.0			2.82
	Azoxystrobin	84.5					22.4
	Bromacil	93.3	104	107			2.15
	Butylate	58.1	75.1	52.2			35.9
	Caffeine	82.6					7.26
	Carbophenothion	90.6	90.8	129			34.6
	Carfentrazone Ethyl	96.6	103	132			24.8
	Chlorfenapyr	82.2	79.2	105			27.9
	Chlorpyrifos Ethyl	97.7	101	104			2.17

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Chlorpyrifos Methyl	96.9	75.8	84.7		11.1
	Coumaphos	52.4	121	132		8.28
	Cyanazine	125	180	194		7.55
	Cyprodinil	95.0	87.2	110		23.4
	Dechlorane 602	80.7	92.1	65.2		34.1
	Dechlorane 603	84.4	88.0	75.9		14.8
	Dechlorane Plus	80.4	72.4	71.2		1.68
	Demeton	79.3	78.5	85.4		8.43
	Diazinon	105	86.5	108		22.5
	Difenoconazole	55.5	130	104		22.3
	Dimethenamid	77.4	74.6	76.3		2.23
	Dimethomorph	72.7	170	160		5.94
	Disulfoton	95.8	90.8	98.6		8.26
	Dithiopyr	102	68.9	51.3		29.3
	EPTC	52.0	62.8	48.2		26.2
	Ethion	82.4	75.4	50.7		39.1
	Ethoprop	91.3	90.9	101		10.1
	Etridiazole	59.8	79.8	64.8		20.7
	Fenamiphos	93.2	113	117		3.28
	Fenbuconazole	29.7	76.5	77.8		1.70
	Fipronil	76.7	91.5	108		14.7
	Fipronil Desulfinyl	96.6	80.9	93.1		9.81
	Fipronil Sulfide	87.5	92.1	113		14.4
	Fipronil Sulfone	83.3	103	99.8		2.33
	Fluazifop-P-butyl	111	86.8	119		31.3
	Fludioxonil	79.2	68.8	78.8		13.5
	Flumioxazin	67.1	153	115		28.6
	Flutolanil	85.6	90.5	98.0		7.97
	Fluxapyroxad	81.0	121	93.2		14.8
	Fonofos	84.3	70.3	91.3		25.9
	Hexabromobenzene	63.3	109	111		2.31
	Hexazinone	101	103	101		1.56
	Imazalil	75.5	90.7	86.3		4.95
	Iprodione	79.9	101	92.8		8.47
	Loratadine	66.9	150	140		6.31
	Malathion	82.3	75.9	78.4		3.29
	Metalaxyl	88.9	97.3	88.7		9.26
	Metolachlor	96.8				1.35
	Metribuzin	125	93.8	99.7		6.07
	Mevinphos	71.3	85.3	86.6		1.46
	Molinate	52.6	63.9	54.1		16.7
	Myclobutanil	90.9	99.4	106		4.61
	Naled	33.1	33.9	42.4		22.2
	Napropamide	91.2	88.3	78.8		11.3
	Norflurazon	83.8	97.1	112		14.5
	Octinoxate	108	103	108		4.50
	Oxadiazon	86.9				0.657
	Oxybenzone	114	110	112		1.34
	Oxyfluorfen	111	128	132		3.23
	Parathion Ethyl	94.5	104	101		2.68
	Parathion Methyl	107	91.4	105		13.9
	PBB-153	77.0	106	99.9		5.91
	PBDE-47	88.9	104	81.6		23.7
	PBDE-99	69.6	97.6	74.3		27.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Pendimethalin	94.9	95.0	106			11.2
	Pentabromotoluene	79.2	92.9	96.8			4.04
	Phenytoin	73.4	45.1	21.6			70.7
	Phorate	89.6	89.3	100			11.3
	Prodiamine	39.3	39.4	50.9			25.5
	Prometon	103	128	126			1.62
	Prometryn	102	63.2	56.5			11.2
	Pronamide	111	113	117			3.36
	Propanil	105	100	105			3.74
	Propargite	90.8	111	84.7			26.6
	Propiconazole	62.2					23.0
	Pyraflufen Ethyl	93.0	83.8	120			35.7
	Pyridaben	51.1					6.16
	Pyriproxyfen	67.4	93.6	84.9			9.76
	Simazine	77.1	124	126			1.47
	Stiropfos	87.8	39.0	25.3			42.4
	Sulfentrazone	71.3	67.9	57.1			12.0
	Tebuconazole	79.4	63.0	100			37.0
	Terbufos	103	120	97.0			21.6
	Terbutylazine	83.7	89.7	73.6			19.7
	Tetradecachloro-m-terphenyl	59.1	77.6	105			30.4
	Thiobencarb	89.2	97.9	93.2			4.93
	Tri-o-cresyl Phosphate	106	108	108			0.802
	Triadimefon	87.8	98.9	94.2			4.47
	Tris(1-chloro-2-propyl) phosphate (TCPP)	125	112	118			2.01
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	98.3	96.4	95.6			0.744
	Tris(2-chloroethyl) phosphate (TCEP)	112	108	111			3.16
EPA 8321B	2,4-D	87.3	100	90.6			9.87
	2,4,5-T	84.5	98.0	87.2			11.7
	Acesulfame K	90.2	113	118			4.04
	Acetaminophen	55.9	61.8	58.4			5.63
	Acetamiprid	58.4	86.6	88.0			1.54
	Afidopyropen	46.8	90.4	84.2			7.09
	AMPA	84.6	93.3	73.2			24.1
	Bentazon	108	111	112			0.403
	Benzovindiflupyr	72.7	79.8	80.5			0.910
	Carbamazepine	68.4	75.9	64.5			16.2
	Clothianidin	82.1	89.3	81.7			8.82
	Dinotefuran	94.7	89.6	81.9			8.90
	Diuron	47.3	49.9	60.2			18.7
	Endothall	87.2	90.6	93.4			3.08
	Fenuron	83.7	76.8	74.5			3.12
	Fluridone	75.4	88.2	87.6			0.668
	Glufosinate	91.6	67.4	73.6			8.77
	Glyphosate	98.1	73.8	74.9			1.43
	Hydrocodone	85.9	82.2	83.3			1.33
	Ibuprofen	63.7	75.2	72.0			4.41
	Imazapyr	76.3	99.0	87.2			12.7
	Imidacloprid	76.5	104	96.7			6.98
	Linuron	69.0	64.4	68.5			6.25
	Mandestrobin	70.9	85.2	78.6			8.02

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8321B	MCCP	88.8	108	101		6.52
	Naproxen	65.6	65.9	68.3		3.64
	Primidone	72.7	71.2	74.2		4.10
	Pyraclostrobin	76.5	87.0	83.4		4.19
	Silvex	85.5	89.3	91.1		1.93
	Sucralose	89.1	96.3	99.5		2.14
	Thiamethoxam	69.7	71.6	65.3		9.16
	Tolfenpyrad	53.5	56.4	50.9		10.3
	Triclopyr	83.1	93.3	94.3		1.12
SM 2320 B-2011	Total Alkalinity	97.7			1.33	
SM 2540 C-2015	TDS	96.5			2.17	
SM 2540 D-2015	TSS	103				
SM 4500-F- C-2011	Fluoride	101	101	103		1.51
SM 5310 B-2011	Organic Carbon	93.0	93.2	95.5		1.86

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2423686
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2423686
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2423691
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2423691
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2423686
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2423686
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2423687
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2423687
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2423687
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2423687
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2423688
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2423692
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2423692
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2423690
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2423686
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2423691
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2423686
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2423686
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2423686
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2423687

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	07/13/2023			07/13/2023 14:50	Samantha L Bates	2423686
EPA 180.1 Rev. 2.0	07/13/2023			07/13/2023 13:01	Alexis Price	2423686
EPA 200.7 Rev. 4.4	07/13/2023	07/14/2023 12:55	George D Taylor	07/18/2023 15:28	Samatha Luckman	2423691
EPA 200.8 Rev. 5.4	07/13/2023	07/14/2023 12:55	George D Taylor	07/17/2023 16:44	Emily M Philpot	2423691
	07/13/2023	07/14/2023 12:55	George D Taylor	07/18/2023 14:20	Emily M Philpot	2423691
EPA 300.0 Rev. 2.1	07/13/2023			07/18/2023 04:52	James L Waggeberby	2423686
EPA 350.1 Rev. 2.0	07/13/2023			07/18/2023 13:05	Khloe J Berg	2423687
EPA 351.2 Rev. 2.0	07/13/2023	07/24/2023 16:09	Dana G. Hughes	07/25/2023 14:23	Samantha L Bates	2423687
EPA 353.2 Rev. 2.0	07/13/2023			07/17/2023 14:54	Judith K. Clark	2423687
EPA 365.1 Rev. 2.0	07/13/2023	07/17/2023 13:00	Alexis Price	07/19/2023 12:07	Simonne.V. Calhoun	2423687
EPA 365.1 Rev. 2.0 dissolved	07/13/2023			07/13/2023 14:59	Elise M. Gillis	2423688
EPA 8270E	07/13/2023	07/18/2023 08:45	Rasheda Ghaffari	07/20/2023 16:50	Vandana T. Nagar	2423692
	07/13/2023	07/18/2023 08:45	Rasheda Ghaffari	07/21/2023 20:20	Arthur Maknenko	2423692
EPA 8321B	07/13/2023	07/15/2023 10:00	Hana Lee	07/15/2023 21:19	Tae K Lee	2423690
	07/13/2023	07/15/2023 10:00	Hana Lee	07/19/2023 03:26	Tae K Lee	2423690
	07/13/2023	07/17/2023 09:00	Hoor Shaik	07/18/2023 09:50	Juyoung Kim	2423690
SM 2320 B-2011	07/13/2023			07/15/2023 02:33	Dale L. Simmons	2423686
SM 2340 B-2011	07/13/2023			07/18/2023 15:28	Samatha Luckman	2423691
SM 2540 C-2015	07/13/2023			07/18/2023 16:04	Yijie Li	2423686
SM 2540 D-2015	07/13/2023			07/18/2023 16:04	Yijie Li	2423686
SM 4500-F- C-2011	07/13/2023			07/15/2023 02:33	Dale L. Simmons	2423686
SM 5310 B-2011	07/13/2023			07/17/2023 14:48	Elise M. Gillis	2423687