

Chemical Analysis Report

NE-DIST-2023-07-21-01

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

Event Description: **Lake LVI No.Lake Asbury**
Request ID: **RQ-2023-07-24-10**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Suite 100
Jacksonville, FL 32256
Attn: Jeremy Parrish

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

Date Certified: 09-AUG-2023 12:03



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: NORTH LAKE ASBURY CENTER

Collection Date/Time: 07/20/2023 09:40

Field ID: G2NE1199

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2425962	DEP SOP: NU-094-1	Color (true)	9.8		PCU	P432873	
	EPA 180.1 Rev. 2.0	Turbidity	1.3		NTU	P432876	
	EPA 300.0 Rev. 2.1	Chloride	16		mg Cl/L	P433122	
		Sulfate	4.5		mg SO4/L	P433125	
	SM 2320 B-2011	Total Alkalinity	36		mg CaCO3/L	P432943	
	SM 2540 C-2015	TDS	70		mg/L	P433338	
	SM 2540 D-2015	TSS	2	I	mg/L	P433188	
	SM 4500-F- C-2011	Fluoride	0.044	I	mg F/L	P432945	
2425963	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P433284	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.33		mg N/L	P432929	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P432992	
	EPA 365.1 Rev. 2.0	Total-P	0.016		mg P/L	P432961	
	SM 5310 B-2011	Organic Carbon	4.0		mg C/L	P432968	
2425964	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P432867	
2425966	EPA 8321B	2,4-D	0.33		ug/L	P432883	
		Acesulfame K	0.10	U	ug/L	P432878	RPD
		2,4,5-T	0.0040	U	ug/L	P432883	
		AMPA	0.10	U	ug/L	P432878	MS
		Acetaminophen	0.0080	U	ug/L	P432883	
		Acetamiprid	0.0020	U	ug/L	P432883	
		Endothall	0.25	U	ug/L	P432878	
		Glufosinate	0.10	U	ug/L	P432878	
		Glyphosate	0.10	U	ug/L	P432878	
		Afidopyropen	0.0020	U	ug/L	P432883	
		Bentazon	0.024		ug/L	P432883	
		Sucralose	1.1		ug/L	P432878	RPD
		Benzovindiflupyr	0.0020	U	ug/L	P432883	
		Carbamazepine	8.0E-04	U	ug/L	P432883	
		Clothianidin	0.0020	U	ug/L	P432883	
		Dinotefuran	0.0020	U	ug/L	P432883	
		Diuron	0.0020	U	ug/L	P432883	MS
		Fenuron	0.032	U	ug/L	P432883	
		Fluridone	0.0021	I	ug/L	P432883	
		Imazapyr	0.0052	I	ug/L	P432883	
		Hydrocodone	0.0020	U	ug/L	P432883	
		Ibuprofen	0.080	U	ug/L	P432883	
		Imidacloprid	0.0020	U	ug/L	P432883	
		Linuron	0.0040	U	ug/L	P432883	
		Mandestrobin	0.0020	U	ug/L	P432883	
		MCP	0.0020	U	ug/L	P432883	
		Naproxen	0.0080	U	ug/L	P432883	
		Primidone	0.0040	U	ug/L	P432883	
		Pyraclostrobin	0.0020	U	ug/L	P432883	

Field ID: G2NE1199

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2425966	EPA 8321B	Silvex	0.0040	U	ug/L	P432883	
		Thiamethoxam	0.0020	U	ug/L	P432883	
		Tolfenpyrad	0.0020	U	ug/L	P432883	
		Triclopyr	0.0040	U	ug/L	P432883	
2425967	EPA 200.7 Rev. 4.4	Calcium	12.5		mg/L	P432914	
		Iron	190		ug/L	P432914	
		Magnesium	2.71		mg/L	P432914	
		Potassium	1.0	I	mg/L	P432914	
		Sodium	9.6		mg/L	P432914	
		Strontium	41.5		ug/L	P432914	
		Tin	3.0	U	ug/L	P432914	
		Titanium	0.75	U	ug/L	P432914	
		Vanadium	2.0	U	ug/L	P432914	
		Zinc	5.0	U	ug/L	P432914	
	EPA 200.8 Rev. 5.4	Aluminum	10	I	ug/L	P432914	
		Antimony	0.050	U	ug/L	P432914	
		Arsenic	4.65		ug/L	P432914	
		Barium	19.1		ug/L	P432914	
		Beryllium	0.010	U	ug/L	P432914	
		Boron	25.2		ug/L	P432914	
		Cadmium	0.020	U	ug/L	P432914	
		Chromium	0.40	U	ug/L	P432914	
		Cobalt	0.020	U	ug/L	P432914	
		Copper	0.73	I	ug/L	P432914	
		Lead	0.29	I	ug/L	P432914	
		Manganese	9.09		ug/L	P432914	
		Molybdenum	0.16	I	ug/L	P432914	
		Nickel	0.50	U	ug/L	P432914	
		Selenium	0.20	U	ug/L	P432914	
		Silver	0.010	U	ug/L	P432914	
		Thallium	0.10	U	ug/L	P432914	
	SM 2340 B-2011	Hardness	42.3		mg/L	P432914	
2425968	EPA 8270E	Oxybenzone**	10	U	ng/L	P432848	
		Acetochlor	0.21	U	ng/L	P432848	
		Octinoxate**	150	U	ng/L	P432848	
		Alachlor	0.41	U	ng/L	P432848	
		Avobenzone**	100	U	ng/L	P432848	
		Ametryn	1.1	U	ng/L	P432848	
		Atrazine	30		ng/L	P432848	
		PBDE-47**	4.1	U	ng/L	P432848	
		Atrazine Desethyl	7.7		ng/L	P432848	
		PBDE-99**	5.1	U	ng/L	P432848	
		Azinphos Methyl	3.1	UJ	ng/L	P432848	CCV
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P432848	
		Azoxystrobin	0.41	I	ng/L	P432848	

Field ID: G2NE1199

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2425968	EPA 8270E	Bromacil	0.62	U	ng/L	P432848	
		2-Ethylhexyl	12	U	ng/L	P432848	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.21	U	ng/L	P432848	
		Dechlorane Plus**	31	U	ng/L	P432848	
		Caffeine**	13	I	ng/L	P432848	MS
		Dechlorane 602**	5.1	U	ng/L	P432848	
		Carbophenothion	0.51	U	ng/L	P432848	
		Dechlorane 603**	4.1	U	ng/L	P432848	
		Carfentrazone Ethyl	0.15	U	ng/L	P432848	
		Hexabromobenzene**	6.2	U	ng/L	P432848	
		Chlorfenapyr	0.31	U	ng/L	P432848	
		PBB-153**	8.2	UJ	ng/L	P432848	LCS
		Chlorpyrifos Ethyl	0.31	U	ng/L	P432848	
		Pentabromotoluene**	3.1	U	ng/L	P432848	
		Chlorpyrifos Methyl	0.10	U	ng/L	P432848	
		Tris(2-chloroethyl) phosphate (TCEP)**	72	U	ng/L	P432848	
		Coumaphos	1.1	U	ng/L	P432848	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	15	U	ng/L	P432848	
		Cyanazine	5.1	U	ng/L	P432848	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P432848	
		Cyprodinil	0.21	U	ng/L	P432848	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P432848	
		Demeton	3.6	U	ng/L	P432848	
		Diazinon	0.13	U	ng/L	P432848	
		Difenoconazole	0.62	U	ng/L	P432848	
		Dimethenamid	0.10	U	ng/L	P432848	
		Dimethomorph	0.31	U	ng/L	P432848	MS
		Disulfoton	0.62	U	ng/L	P432848	
		Dithiopyr	1.0	U	ng/L	P432848	
		EPTC	0.51	U	ng/L	P432848	
		Ethion	0.31	U	ng/L	P432848	
		Ethoprop	0.13	U	ng/L	P432848	
		Etridiazole	0.10	U	ng/L	P432848	
		Fenamiphos	0.46	U	ng/L	P432848	
		Fenbuconazole	0.51	U	ng/L	P432848	
		Fipronil	0.21	U	ng/L	P432848	
		Fipronil Desulfinyl**	0.88		ng/L	P432848	
		Fipronil Sulfide	0.11	I	ng/L	P432848	
		Fipronil Sulfone	1.1		ng/L	P432848	
		Fluazifop-P-butyl	0.10	U	ng/L	P432848	
		Fludioxonil	0.10	U	ng/L	P432848	
		Flumioxazin	3.1	U	ng/L	P432848	
		Flutolanil	0.10	UJ	ng/L	P432848	LCS
		Fluxapyroxad	0.26	U	ng/L	P432848	

Field ID: G2NE1199

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2425968	EPA 8270E	Fonofos	0.15	U	ng/L	P432848	
		Hexazinone	0.51	U	ng/L	P432848	
		Imazalil	0.67	U	ng/L	P432848	
		Iprodione	0.51	U	ng/L	P432848	
		Loratadine**	0.31	U	ng/L	P432848	
		Malathion	0.36	UJ	ng/L	P432848	LCS, MS
		Metalaxyl	0.51	U	ng/L	P432848	
		Metolachlor	0.77	U	ng/L	P432848	
		Metribuzin	0.41	U	ng/L	P432848	
		Mevinphos	1.0	U	ng/L	P432848	
		Molinate	0.26	U	ng/L	P432848	
		Myclobutanil	0.36	U	ng/L	P432848	
		Naled	2.6	U	ng/L	P432848	
		Napropamide	0.72	U	ng/L	P432848	
		Norflurazon	1.0	U	ng/L	P432848	
		Oxadiazon	0.36	U	ng/L	P432848	
		Oxyfluorfen	0.21	U	ng/L	P432848	
		Parathion Ethyl	0.15	U	ng/L	P432848	
		Parathion Methyl	0.21	U	ng/L	P432848	MS
		Pendimethalin	0.77	U	ng/L	P432848	
		Phenytoin**	5.4	U	ng/L	P432848	
		Phorate	0.26	U	ng/L	P432848	
		Prodiamine	0.21	U	ng/L	P432848	
		Prometon	3.1	U	ng/L	P432848	MS
		Prometryn	0.36	U	ng/L	P432848	
		Pronamide	0.10	U	ng/L	P432848	
		Propanil	0.10	U	ng/L	P432848	
		Propargite	0.82	U	ng/L	P432848	
		Propiconazole	3.0	I	ng/L	P432848	
		Pyraflufen Ethyl	0.31	U	ng/L	P432848	
		Pyridaben	1.4	U	ng/L	P432848	
		Pyriproxyfen	0.26	UJ	ng/L	P432848	CCV
		Simazine	2.5		ng/L	P432848	
		Stiophos	0.41	UJ	ng/L	P432848	LCS
		Sulfentrazone	1.4	U	ng/L	P432848	
		Tebuconazole	8.2		ng/L	P432848	
		Terbufos	0.21	U	ng/L	P432848	
		Terbuthylazine	0.21	U	ng/L	P432848	
		Thiobencarb	0.51	UJ	ng/L	P432848	LCS
		Triadimefon	0.15	U	ng/L	P432848	

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 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: P432873

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P432876

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P432914

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: P432914

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: P433122

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: P433125

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

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

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432929

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432992

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432961

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P432867

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

Reference Method: EPA 8270E
Batch ID: P432848

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: P432848

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: P432848

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: P432848

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: P432848

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: P432878

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: P432883

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P432883

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: P432943

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

Reference Method: SM 2540 C-2015

Batch ID: P433338

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P433188

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P432945

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P432968

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: P432873

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.1		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P432876

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	99.7		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P432914

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	96.6		P	85 - 115
Iron	94.6		P	85 - 115
Magnesium	96.5		P	85 - 115
Potassium	98.4		P	85 - 115
Sodium	101		P	85 - 115
Strontium	96.4		P	85 - 115
Tin	96.1		P	85 - 115
Titanium	98.0		P	85 - 115
Vanadium	98.1		P	85 - 115
Zinc	96.9		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P432914

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	102		P	85 - 115
Antimony	101		P	85 - 115
Arsenic	102		P	85 - 115
Barium	102		P	85 - 115
Beryllium	96.3		P	85 - 115
Boron	106		P	85 - 115
Cadmium	99.9		P	85 - 115
Chromium	97.8		P	85 - 115
Cobalt	100		P	85 - 115
Copper	93.9		P	85 - 115
Lead	103		P	85 - 115
Manganese	94.4		P	85 - 115
Molybdenum	100		P	85 - 115
Nickel	102		P	85 - 115
Selenium	100		P	85 - 115
Silver	113		P	85 - 115
Thallium	101		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433122

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: P433125

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

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

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432929

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.8		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432992

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	100		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432961

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P432867

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.8		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P432848

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	157		P	42 - 162
Acetochlor	97.8		P	69 - 123
Alachlor	94.4		P	65 - 118
Ametryn	118		P	58 - 141
Atrazine	90.6		P	73 - 118
Atrazine Desethyl	97.9		P	32 - 125
Avobenzone	153		P	40 - 203
Azinphos Methyl	116		P	36 - 197
Azoxystrobin	96.3		P	58 - 226
Bromacil	78.6		P	48 - 120
Butylate	54.7		P	27 - 85.0
Caffeine	84.0		P	40 - 137
Carbophenothion	109		P	54 - 132
Carfentrazone Ethyl	101		P	60 - 142
Chlorfenapyr	76.2		P	53 - 117
Chlorpyrifos Ethyl	96.7		P	59 - 116

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P432848

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	86.9		P	66 - 119
Coumaphos	171		P	11 - 234
Cyanazine	152		P	61 - 248
Cyprodinil	85.6		P	50 - 147
Dechlorane 602	115		P	50 - 150
Dechlorane 603	142		P	50 - 150
Dechlorane Plus	135		P	47 - 182
Demeton	102		P	30 - 138
Diazinon	117		P	67 - 126
Difenoconazole	128		P	38 - 205
Dimethenamid	88.0		P	57 - 111
Dimethomorph	175		P	16 - 212
Disulfoton	110		P	46 - 126
Dithiopyr	98.4		P	62 - 115
EPTC	56.0		P	28 - 80.0
Ethion	116		P	24 - 122
Ethoprop	88.2		P	62 - 113
Etridiazole	66.8		P	28 - 92.0
Fenamiphos	107		P	57 - 128
Fenbuconazole	88.8		P	52 - 155
Fipronil	103		P	63 - 130
Fipronil Desulfinyl	92.9		P	61 - 130
Fipronil Sulfide	82.7		P	56 - 117
Fipronil Sulfone	116		P	52 - 118
Fluazifop-P-butyl	115		P	61 - 128
Fludioxonil	89.2		P	59 - 129
Flumioxazin	175		P	30 - 250
Flutolanil	29.3		F	53 - 127
Fluxapyroxad	110		P	42 - 132
Fonofos	79.6		P	61 - 110
Hexabromobenzene	141		P	50 - 150
Hexazinone	95.7		P	46 - 139
Imazalil	91.0		P	40 - 139
Iprodione	99.3		P	40 - 146
Loratadine	78.5		P	10 - 224
Malathion	6.00		F	61 - 135
Metalaxyl	101		P	58 - 121
Metolachlor	82.8		P	64 - 118
Metribuzin	95.1		P	45 - 245
Mevinphos	90.1		P	49 - 118
Molinate	59.3		P	42 - 92.0
Myclobutanil	105		P	55 - 127
Naled	34.0		P	10 - 114
Napropamide	53.5		P	39 - 121
Norflurazon	88.6		P	55 - 129
Octinoxate	135		P	26 - 166
Oxadiazon	96.4		P	54 - 115
Oxybenzone	128		P	49 - 135
Oxyfluorfen	109		P	64 - 139
Parathion Ethyl	103		P	70 - 111
Parathion Methyl	129		P	76 - 136
PBB-153	163		F	50 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P432848

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBDE-47	135		P	41 - 148
PBDE-99	145		P	38 - 147
Pendimethalin	97.6		P	52 - 118
Pentabromotoluene	123		P	50 - 150
Phenytoin	81.2		P	10 - 162
Phorate	86.2		P	40 - 122
Prodiamine	44.3		P	26 - 141
Prometon	93.7		P	54 - 122
Prometryn	71.8		P	61 - 128
Pronamide	90.8		P	72 - 121
Propanil	108		P	45 - 144
Propargite	129		P	10 - 199
Propiconazole	70.7		P	56 - 127
Pyraflufen Ethyl	121		P	56 - 140
Pyridaben	150		P	26 - 211
Pyriproxyfen	80.0		P	33 - 194
Simazine	71.3		P	67 - 121
Stirophos	14.8		F	20 - 142
Sulfentrazone	113		P	21 - 144
Tebuconazole	104		P	10 - 122
Terbufos	110		P	60 - 129
Terbutylazine	87.3		P	69 - 113
Tetradecachloro-m-terphenyl	111		P	70 - 200
Thiobencarb	10.2		F	51 - 120
Tri-o-cresyl Phosphate	137		P	49 - 150
Triadimefon	98.2		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	126		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	122		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	152		P	70 - 180

Reference Method: EPA 8321B

Batch ID: P432878

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	94.8		P	40 - 150
AMPA	144		P	40 - 150
Endothall	106		P	40 - 150
Glufosinate	93.4		P	40 - 150
Glyphosate	91.5		P	40 - 150
Sucralose	83.8		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P432883

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	81.8		P	40 - 150
2,4,5-T	70.3		P	40 - 150
Acetaminophen	79.0		P	30 - 150
Acetamiprid	79.5		P	40 - 150
Afidopyropen	57.9		P	30 - 150
Bentazon	126		P	30 - 150
Benzovindiflupyr	78.2		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P432883

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Carbamazepine	69.8		P	40 - 150
Clothianidin	88.8		P	40 - 150
Dinotefuran	88.5		P	40 - 150
Diuron	44.0		P	40 - 150
Fenuron	96.2		P	40 - 150
Fluridone	98.8		P	40 - 150
Hydrocodone	80.8		P	40 - 150
Ibuprofen	72.5		P	40 - 150
Imazapyr	79.8		P	40 - 150
Imidacloprid	73.2		P	40 - 150
Linuron	52.1		P	40 - 150
Mandestrobin	81.4		P	40 - 150
MCPP	86.2		P	40 - 150
Naproxen	69.0		P	40 - 150
Primidone	68.7		P	40 - 150
Pyraclostrobin	74.0		P	40 - 150
Silvex	87.9		P	40 - 150
Thiamethoxam	98.3		P	40 - 150
Tolfenpyrad	56.8		P	30 - 150
Triclopyr	70.8		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P432943

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	93.6		P	92 - 105

Reference Method: SM 2540 C-2015

Batch ID: P433338

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

Reference Method: SM 2540 D-2015

Batch ID: P433188

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	94.9		P	85 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P432945

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.5		P	94 - 106

Reference Method: SM 5310 B-2011

Batch ID: P432968

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P432914

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2425425	Calcium	95.7		P	80 - 120
2425425	Iron	98.7	99.6	P/P	80 - 120
2425425	Magnesium	95.9		P	80 - 120
2425425	Potassium	97.5		P	80 - 120
2425425	Sodium	102		P	80 - 120
2425425	Strontium	99.6	100	P/P	80 - 120
2425425	Tin	94.5	91.5	P/P	80 - 120
2425425	Titanium	95.2	95.3	P/P	80 - 120
2425425	Vanadium	94.3	94.5	P/P	80 - 120
2425425	Zinc	92.7	93.1	P/P	80 - 120
2425967	Calcium	101		P	80 - 120
2425967	Iron	103		P	80 - 120
2425967	Magnesium	104		P	80 - 120
2425967	Potassium	105		P	80 - 120
2425967	Sodium	107		P	80 - 120
2425967	Strontium	105		P	80 - 120
2425967	Tin	98.4		P	80 - 120
2425967	Titanium	100		P	80 - 120
2425967	Vanadium	101		P	80 - 120
2425967	Zinc	97.9		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P432914

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2425425	Aluminum	102	103	P/P	80 - 120
2425425	Antimony	101	101	P/P	80 - 120
2425425	Arsenic	102	102	P/P	80 - 120
2425425	Barium	103	104	P/P	80 - 120
2425425	Beryllium	96.8	98.5	P/P	80 - 120
2425425	Boron	106	108	P/P	80 - 120
2425425	Cadmium	100	101	P/P	80 - 120
2425425	Chromium	99.0	99.2	P/P	80 - 120
2425425	Cobalt	99.1	99.1	P/P	80 - 120
2425425	Copper	91.9	90.7	P/P	80 - 120
2425425	Lead	104	105	P/P	80 - 120
2425425	Manganese	90.9	94.1	P/P	80 - 120
2425425	Molybdenum	99.8	99.8	P/P	80 - 120
2425425	Nickel	101	102	P/P	80 - 120
2425425	Selenium	102	100	P/P	80 - 120
2425425	Silver	110	109	P/P	80 - 120
2425425	Thallium	106	106	P/P	80 - 120
2425967	Aluminum	103		P	80 - 120
2425967	Antimony	102		P	80 - 120
2425967	Arsenic	101		P	80 - 120
2425967	Barium	103		P	80 - 120
2425967	Beryllium	90.6		P	80 - 120
2425967	Boron	108		P	80 - 120
2425967	Cadmium	99.6		P	80 - 120
2425967	Chromium	99.0		P	80 - 120
2425967	Cobalt	98.8		P	80 - 120
2425967	Copper	98.3		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P432914

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2425967	Lead	103		P	80 - 120
2425967	Manganese	93.2		P	80 - 120
2425967	Molybdenum	99.2		P	80 - 120
2425967	Nickel	99.1		P	80 - 120
2425967	Selenium	98.0		P	80 - 120
2425967	Silver	108		P	80 - 120
2425967	Thallium	105		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433122

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2425743	Chloride	102		P	90 - 110
2425805	Chloride	97.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433125

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2425743	Sulfate	97.8		P	90 - 110
2425805	Sulfate	100		P	90 - 110

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

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432929

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2425935	Kjeldahl Nitrogen	94.3	98.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432992

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2425963	NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432961

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426004	Total-P	102	98.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P432867

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2425874	O-Phosphate-P	98.9	99.9	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P432848

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2425976	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	110	104	P/P	26 - 165
2425976	Acetochlor	110	103	P/P	67 - 124
2425976	Alachlor	103	96.8	P/P	60 - 120
2425976	Ametryn	149	140	P/P	54 - 216
2425976	Atrazine Desethyl	105	102	P/P	15 - 122
2425976	Avobenzone	158	150	P/P	37 - 178
2425976	Azinphos Methyl	167	227	P/P	40 - 292
2425976	Azoxystrobin	120	102	P/P	35 - 220
2425976	Bromacil	110	103	P/P	45 - 127
2425976	Butylate	55.7	51.3	P/P	20 - 83.0
2425976	Caffeine	301	338	F/F	10 - 194
2425976	Carbophenothion	121	108	P/P	57 - 127
2425976	Carfentrazone Ethyl	114	93.1	P/P	51 - 141
2425976	Chlorfenapyr	83.7	74.3	P/P	46 - 111
2425976	Chlorpyrifos Ethyl	101	94.6	P/P	52 - 120
2425976	Chlorpyrifos Methyl	90.7	91.4	P/P	63 - 119
2425976	Coumaphos	156	194	P/P	10 - 228
2425976	Cyanazine	176	167	P/P	59 - 241
2425976	Cyprodinil	101	102	P/P	47 - 146
2425976	Dechlorane 602	82.0	76.6	P/P	50 - 150
2425976	Dechlorane 603	113	103	P/P	50 - 150
2425976	Dechlorane Plus	105	98.2	P/P	50 - 150
2425976	Demeton	104	92.8	P/P	40 - 136
2425976	Diazinon	127	122	P/P	69 - 132
2425976	Difenoconazole	142	143	P/P	57 - 258
2425976	Dimethenamid	93.4	85.1	P/P	54 - 110
2425976	Dimethomorph	232	255	F/F	28 - 210
2425976	Disulfoton	116	104	P/P	43 - 133
2425976	Dithiopyr	93.2	92.4	P/P	39 - 116
2425976	EPTC	53.2	48.2	P/P	20 - 78.0
2425976	Ethion	107	97.9	P/P	17 - 119
2425976	Ethoprop	94.1	89.5	P/P	66 - 120
2425976	Etridiazole	75.0	60.0	P/P	28 - 96.0
2425976	Fenamiphos	116	115	P/P	41 - 126
2425976	Fenbuconazole	93.6	85.4	P/P	42 - 169
2425976	Fipronil	121	121	P/P	61 - 132
2425976	Fipronil Desulfinyl	95.5	106	P/P	56 - 132
2425976	Fipronil Sulfide	91.0	87.4	P/P	48 - 119
2425976	Fipronil Sulfone	112	110	P/P	42 - 131
2425976	Fluazifop-P-butyl	123	129	P/P	53 - 131
2425976	Fludioxonil	92.8	87.9	P/P	56 - 127
2425976	Flumioxazin	207	194	P/P	19 - 300
2425976	Flutolanil	59.0	57.8	P/P	41 - 127
2425976	Fluxapyroxad	139	120	P/P	42 - 172
2425976	Fonofos	87.9	84.0	P/P	59 - 113
2425976	Hexabromobenzene	124	117	P/P	50 - 150
2425976	Hexazinone	103	95.7	P/P	66 - 122
2425976	Imazalil	93.5	85.2	P/P	21 - 283
2425976	Iprodione	129	114	P/P	43 - 150
2425976	Loratadine	138	117	P/P	23 - 201
2425976	Malathion	31.6	33.6	F/F	58 - 136
2425976	Metalaxyl	108	101	P/P	55 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P432848

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2425976	Metolachlor	101	94.3	P/P	57 - 121
2425976	Metribuzin	106	106	P/P	58 - 294
2425976	Mevinphos	99.2	90.2	P/P	50 - 126
2425976	Molinate	60.6	56.4	P/P	42 - 93.0
2425976	Myclobutanil	122	109	P/P	55 - 125
2425976	Naled	38.3	35.3	P/P	18 - 200
2425976	Napropamide	86.4	75.1	P/P	39 - 110
2425976	Norflurazon	97.4	76.4	P/P	48 - 128
2425976	Octinoxate	39.2	32.6	P/P	21 - 159
2425976	Oxadiazon	109	95.1	P/P	43 - 112
2425976	Oxybenzone	117	110	P/P	41 - 142
2425976	Oxyfluorfen	114	117	P/P	64 - 153
2425976	Parathion Ethyl	106	106	P/P	69 - 114
2425976	Parathion Methyl	136	139	P/F	79 - 139
2425976	PBB-153	131	122	P/P	50 - 150
2425976	PBDE-47	106	101	P/P	27 - 144
2425976	PBDE-99	103	96.6	P/P	18 - 150
2425976	Pendimethalin	122	127	P/P	50 - 139
2425976	Pentabromotoluene	108	102	P/P	50 - 150
2425976	Phenytoin	53.6	49.8	P/P	10 - 146
2425976	Phorate	87.5	93.0	P/P	54 - 161
2425976	Prodiamine	47.1	47.3	P/P	30 - 161
2425976	Prometon	143	132	F/P	45 - 134
2425976	Prometryn	91.7	81.6	P/P	45 - 137
2425976	Pronamide	104	101	P/P	65 - 133
2425976	Propanil	113	116	P/P	49 - 142
2425976	Propargite	106	94.5	P/P	10 - 203
2425976	Propiconazole	86.3	68.0	P/P	38 - 146
2425976	Pyraflufen Ethyl	139	112	P/P	34 - 153
2425976	Pyridaben	175	164	P/P	12 - 192
2425976	Pyriproxyfen	94.5	157	P/P	33 - 180
2425976	Simazine	97.8	101	P/P	51 - 157
2425976	Stiropfos	21.5	23.4	P/P	10 - 128
2425976	Sulfentrazone	124	112	P/P	53 - 186
2425976	Tebuconazole	95.3	82.8	P/P	10 - 133
2425976	Terbufos	121	116	P/P	65 - 139
2425976	Terbuthylazine	97.1	95.1	P/P	66 - 117
2425976	Tetradecachloro-m-terphenyl	108	104	P/P	70 - 200
2425976	Thiobencarb	54.3	54.6	P/P	51 - 119
2425976	Tri-o-cresyl Phosphate	124	120	P/P	31 - 144
2425976	Triadimefon	101	91.2	P/P	48 - 119
2425976	Tris(1-chloro-2-propyl) phosphate (TCPP)	117	106	P/P	50 - 150
2425976	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	111	109	P/P	50 - 150
2425976	Tris(2-chloroethyl) phosphate (TCEP)	142	135	P/P	70 - 180

Reference Method: EPA 8321B

Batch ID: P432878

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2424967	Acesulfame K	60.0	81.4	P/P	40 - 150
2424967	AMPA	25.0	25.9	F/F	40 - 150
2424967	Endothall	133	124	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P432878

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2424967	Glufosinate	42.6	42.5	P/P	40 - 150
2424967	Glyphosate	79.8	82.6	P/P	40 - 150
2424967	Sucralose	91.2	125	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P432883

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2425633	2,4-D	113	118	P/P	40 - 150
2425633	2,4,5-T	109	104	P/P	40 - 150
2425633	Acetaminophen	99.4	98.4	P/P	30 - 150
2425633	Acetamiprid	60.0	61.8	P/P	40 - 150
2425633	Afidopyropen	66.9	73.3	P/P	30 - 150
2425633	Bentazon	119	117	P/P	30 - 150
2425633	Benzovindiflupyr	80.7	79.7	P/P	40 - 150
2425633	Carbamazepine	50.0	55.9	P/P	40 - 150
2425633	Clothianidin	87.2	84.9	P/P	40 - 150
2425633	Dinotefuran	67.5	82.3	P/P	40 - 150
2425633	Diuron	31.6	34.4	F/F	40 - 150
2425633	Fenuron	61.1	64.6	P/P	40 - 150
2425633	Fluridone	87.9	90.3	P/P	40 - 150
2425633	Hydrocodone	60.2	62.3	P/P	40 - 150
2425633	Ibuprofen	66.2	69.8	P/P	40 - 150
2425633	Imazapyr	95.7	98.5	P/P	40 - 150
2425633	Imidacloprid	115	120	P/P	40 - 150
2425633	Linuron	52.8	50.5	P/P	40 - 150
2425633	Mandestrobin	80.0	85.3	P/P	40 - 150
2425633	MCPP	124	123	P/P	40 - 150
2425633	Naproxen	128	128	P/P	40 - 150
2425633	Primidone	78.0	75.2	P/P	40 - 150
2425633	Pyraclostrobin	77.3	76.6	P/P	40 - 150
2425633	Silvex	116	114	P/P	40 - 150
2425633	Thiamethoxam	76.5	76.7	P/P	40 - 150
2425633	Tolfenpyrad	57.7	56.4	P/P	30 - 150
2425633	Triclopyr	102	103	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P432945

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2425984	Fluoride	99.1	98.6	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P432968

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2425760	Organic Carbon	99.2		P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P432873

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2425813	Color (true)	2.31	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P432876

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2425766	Turbidity	2.09	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P432914

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2425425	Calcium	1.64	Spike	P	0 - 20
2425425	Iron	0.869	Spike	P	0 - 20
2425425	Magnesium	1.73	Spike	P	0 - 20
2425425	Potassium	0.803	Spike	P	0 - 20
2425425	Sodium	0.711	Spike	P	0 - 20
2425425	Strontium	0.522	Spike	P	0 - 20
2425425	Tin	3.17	Spike	P	0 - 20
2425425	Titanium	0.0979	Spike	P	0 - 20
2425425	Vanadium	0.230	Spike	P	0 - 20
2425425	Zinc	0.488	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P432914

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2425425	Aluminum	0.963	Spike	P	0 - 20
2425425	Antimony	0.116	Spike	P	0 - 20
2425425	Arsenic	0.0813	Spike	P	0 - 20
2425425	Barium	0.408	Spike	P	0 - 20
2425425	Beryllium	1.67	Spike	P	0 - 20
2425425	Boron	1.39	Spike	P	0 - 20
2425425	Cadmium	0.480	Spike	P	0 - 20
2425425	Chromium	0.176	Spike	P	0 - 20
2425425	Cobalt	0.0474	Spike	P	0 - 20
2425425	Copper	1.38	Spike	P	0 - 20
2425425	Lead	0.625	Spike	P	0 - 20
2425425	Manganese	1.68	Spike	P	0 - 20
2425425	Molybdenum	0.0305	Spike	P	0 - 20
2425425	Nickel	1.24	Spike	P	0 - 20
2425425	Selenium	1.59	Spike	P	0 - 20
2425425	Silver	0.833	Spike	P	0 - 20
2425425	Thallium	0.528	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433122

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2425743	Chloride	0.246	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433125

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2425743	Sulfate	0.0255	Sample	P	0 - 20

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

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432929

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2425935	Kjeldahl Nitrogen	3.05	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432992

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2425963	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432961

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426004	Total-P	2.75	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P432867

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2425874	O-Phosphate-P	1.01	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P432848

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2425976	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	5.68	Spike	P	0 - 37
2425976	Acetochlor	6.91	Spike	P	0 - 28

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P432848

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2425976	Alachlor	6.53	Spike	P	0 - 30
2425976	Ametryn	6.08	Spike	P	0 - 32
2425976	Atrazine	6.81	Spike	P	0 - 41
2425976	Atrazine Desethyl	2.22	Spike	P	0 - 36
2425976	Avobenzone	5.58	Spike	P	0 - 36
2425976	Azinphos Methyl	30.2	Spike	P	0 - 75
2425976	Azoxystrobin	15.3	Spike	P	0 - 39
2425976	Bromacil	4.76	Spike	P	0 - 33
2425976	Butylate	8.23	Spike	P	0 - 44
2425976	Caffeine	10.0	Spike	P	0 - 74
2425976	Carbophenothion	11.8	Spike	P	0 - 25
2425976	Carfentrazone Ethyl	20.4	Spike	P	0 - 27
2425976	Chlorfenapyr	11.9	Spike	P	0 - 24
2425976	Chlorpyrifos Ethyl	6.37	Spike	P	0 - 26
2425976	Chlorpyrifos Methyl	0.759	Spike	P	0 - 26
2425976	Coumaphos	22.0	Spike	P	0 - 28
2425976	Cyanazine	5.52	Spike	P	0 - 48
2425976	Cyprodinil	1.08	Spike	P	0 - 29
2425976	Dechlorane 602	6.88	Spike	P	0 - 30
2425976	Dechlorane 603	9.74	Spike	P	0 - 30
2425976	Dechlorane Plus	6.42	Spike	P	0 - 30
2425976	Demeton	11.4	Spike	P	0 - 33
2425976	Diazinon	4.38	Spike	P	0 - 29
2425976	Difenoconazole	1.22	Spike	P	0 - 34
2425976	Dimethenamid	9.28	Spike	P	0 - 39
2425976	Dimethomorph	9.21	Spike	P	0 - 51
2425976	Disulfoton	11.0	Spike	P	0 - 30
2425976	Dithiopyr	0.805	Spike	P	0 - 26
2425976	EPTC	9.76	Spike	P	0 - 43
2425976	Ethion	9.33	Spike	P	0 - 79
2425976	Ethoprop	4.98	Spike	P	0 - 29
2425976	Etridiazole	22.2	Spike	P	0 - 33
2425976	Fenamiphos	1.15	Spike	P	0 - 40
2425976	Fenbuconazole	9.19	Spike	P	0 - 74
2425976	Fipronil	0.0573	Spike	P	0 - 29
2425976	Fipronil Desulfinyl	10.0	Spike	P	0 - 32
2425976	Fipronil Sulfide	4.07	Spike	P	0 - 30
2425976	Fipronil Sulfone	1.96	Spike	P	0 - 33
2425976	Fluazifop-P-butyl	4.73	Spike	P	0 - 38
2425976	Fludioxonil	5.45	Spike	P	0 - 29
2425976	Flumioxazin	6.90	Spike	P	0 - 51
2425976	Flutolanil	1.96	Spike	P	0 - 25
2425976	Fluxapyroxad	14.5	Spike	P	0 - 45
2425976	Fonofos	4.59	Spike	P	0 - 27
2425976	Hexabromobenzene	6.18	Spike	P	0 - 30
2425976	Hexazinone	6.06	Spike	P	0 - 30
2425976	Imazalil	9.25	Spike	P	0 - 100
2425976	Iprodione	12.4	Spike	P	0 - 33
2425976	Loratadine	16.6	Spike	P	0 - 56
2425976	Malathion	6.16	Spike	P	0 - 37
2425976	Metalaxyl	4.37	Spike	P	0 - 40

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P432848

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2425976	Metolachlor	5.78	Spike	P	0 - 29
2425976	Metribuzin	0.110	Spike	P	0 - 45
2425976	Mevinphos	9.51	Spike	P	0 - 29
2425976	Molinate	7.15	Spike	P	0 - 33
2425976	Myclobutanil	11.5	Spike	P	0 - 26
2425976	Naled	8.34	Spike	P	0 - 37
2425976	Napropamide	13.9	Spike	P	0 - 44
2425976	Norflurazon	16.6	Spike	P	0 - 30
2425976	Octinoxate	5.44	Spike	P	0 - 45
2425976	Oxadiazon	13.4	Spike	P	0 - 28
2425976	Oxybenzone	6.60	Spike	P	0 - 46
2425976	Oxyfluorfen	2.83	Spike	P	0 - 28
2425976	Parathion Ethyl	0.250	Spike	P	0 - 31
2425976	Parathion Methyl	2.14	Spike	P	0 - 29
2425976	PBB-153	6.74	Spike	P	0 - 30
2425976	PBDE-47	5.53	Spike	P	0 - 36
2425976	PBDE-99	6.31	Spike	P	0 - 40
2425976	Pendimethalin	3.84	Spike	P	0 - 33
2425976	Pentabromotoluene	5.26	Spike	P	0 - 30
2425976	Phenytoin	7.38	Spike	P	0 - 100
2425976	Phorate	6.07	Spike	P	0 - 36
2425976	Prodiamine	0.354	Spike	P	0 - 71
2425976	Prometon	8.22	Spike	P	0 - 36
2425976	Prometryn	11.6	Spike	P	0 - 28
2425976	Pronamide	2.75	Spike	P	0 - 24
2425976	Propanil	2.83	Spike	P	0 - 28
2425976	Propargite	11.8	Spike	P	0 - 43
2425976	Propiconazole	15.2	Spike	P	0 - 33
2425976	Pyraflufen Ethyl	22.2	Spike	P	0 - 29
2425976	Pyridaben	6.62	Spike	P	0 - 30
2425976	Pyriproxyfen	49.9	Spike	P	0 - 79
2425976	Simazine	2.95	Spike	P	0 - 29
2425976	Stirophos	8.31	Spike	P	0 - 61
2425976	Sulfentrazone	10.2	Spike	P	0 - 33
2425976	Tebuconazole	14.0	Spike	P	0 - 69
2425976	Terbufos	4.29	Spike	P	0 - 29
2425976	Terbuthylazine	2.08	Spike	P	0 - 32
2425976	Tetradecachloro-m-terphenyl	3.11	Spike	P	0 - 30
2425976	Thiobencarb	0.519	Spike	P	0 - 26
2425976	Tri-o-cresyl Phosphate	3.78	Spike	P	0 - 33
2425976	Triadimefon	10.5	Spike	P	0 - 28
2425976	Tris(1-chloro-2-propyl) phosphate (TCPP)	9.72	Spike	P	0 - 30
2425976	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.34	Spike	P	0 - 30
2425976	Tris(2-chloroethyl) phosphate (TCEP)	4.89	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P432878

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2424967	Acesulfame K	30.2	Spike	F	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P432878

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2424967	AMPA	2.87	Spike	P	0 - 30
2424967	Endothall	6.61	Spike	P	0 - 30
2424967	Glufosinate	0.199	Spike	P	0 - 30
2424967	Glyphosate	3.46	Spike	P	0 - 30
2424967	Sucralose	30.8	Spike	F	0 - 30

Reference Method: EPA 8321B
Batch ID: P432883

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2425633	2,4-D	4.43	Spike	P	0 - 30
2425633	2,4,5-T	4.92	Spike	P	0 - 30
2425633	Acetaminophen	1.09	Spike	P	0 - 30
2425633	Acetamiprid	3.04	Spike	P	0 - 30
2425633	Afidopyropen	9.12	Spike	P	0 - 30
2425633	Bentazon	1.48	Spike	P	0 - 30
2425633	Benzovindiflupyr	1.21	Spike	P	0 - 30
2425633	Carbamazepine	11.1	Spike	P	0 - 30
2425633	Clothianidin	2.58	Spike	P	0 - 30
2425633	Dinotefuran	19.8	Spike	P	0 - 30
2425633	Diuron	8.62	Spike	P	0 - 30
2425633	Fenuron	5.50	Spike	P	0 - 30
2425633	Fluridone	2.69	Spike	P	0 - 30
2425633	Hydrocodone	3.44	Spike	P	0 - 30
2425633	Ibuprofen	5.32	Spike	P	0 - 30
2425633	Imazapyr	2.90	Spike	P	0 - 30
2425633	Imidacloprid	4.25	Spike	P	0 - 30
2425633	Linuron	4.34	Spike	P	0 - 30
2425633	Mandestrobin	6.39	Spike	P	0 - 30
2425633	MCPP	0.402	Spike	P	0 - 30
2425633	Naproxen	0.122	Spike	P	0 - 30
2425633	Primidone	3.65	Spike	P	0 - 30
2425633	Pyraclostrobin	0.916	Spike	P	0 - 30
2425633	Silvex	2.05	Spike	P	0 - 30
2425633	Thiamethoxam	0.286	Spike	P	0 - 30
2425633	Tolfenpyrad	2.18	Spike	P	0 - 30
2425633	Triclopyr	0.638	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P432943

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2425984	Total Alkalinity	0.713	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P433338

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: P433338

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2425813	TDS	8.45	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P432945

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2425984	Fluoride	0.498	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P432968

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2425760	Organic Carbon	1.63	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2425966
Field Sample ID: G2NE1199

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	116	P	30 - 160
EPA 8321B	Acetaminophen-d4	85.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	54.6	P	30 - 160
EPA 8321B	Diuron-d6	44.9	P	30 - 160
EPA 8321B	Endothall-d6	103	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	77.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	72.7	P	30 - 160
EPA 8321B	Primidone-d5	89.2	P	30 - 160
EPA 8321B	Sucralose-d6	94.7	P	30 - 160

Lab Sample ID: 2425968
Field Sample ID: G2NE1199

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	85.7	P	20 - 200
EPA 8270E	Simazine-d10	82.2	P	62 - 142
EPA 8270E	Terbufos-d10	85.8	P	58 - 132
EPA 8270E	Terphenyl-d14	105	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A120560

Included Lab Sample IDs: 2425964

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	97.9	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A120563

Included Lab Sample IDs: 2425962

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.2	99.3	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A120564

Included Lab Sample IDs: 2425962

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

Reference Method: EPA 8321B

Run ID: A120601

Included Lab Sample IDs: 2425966

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	106	103	P/P	60 - 160
Sucralose	86.2	89.4	P/P	60 - 160

Reference Method: SM 2320 B-2011

Run ID: A120602

Included Lab Sample IDs: 2425962

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.2	92.6	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A120602

Included Lab Sample IDs: 2425962

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

Reference Method: EPA 8321B

Run ID: A120604

Included Lab Sample IDs: 2425966

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	86.3	87.2	P/P	60 - 160
Endothall	110	103	P/P	60 - 160
Glufosinate	99.4	97.8	P/P	60 - 160
Glyphosate	110	98.9	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A120614

Included Lab Sample IDs: 2425963

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.0	99.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A120621

Included Lab Sample IDs: 2425963

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A120632

Included Lab Sample IDs: 2425967

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Antimony	96.9	95.5	P/P	90 - 110
Arsenic	99.4	96.0	P/P	90 - 110
Barium	98.3	95.6	P/P	90 - 110
Boron	97.8	101	P/P	90 - 110
Cadmium	96.7	95.7	P/P	90 - 110
Chromium	97.1	96.5	P/P	90 - 110
Cobalt	96.8	94.9	P/P	90 - 110
Lead	99.1	98.3	P/P	90 - 110
Molybdenum	97.3	94.3	P/P	90 - 110
Nickel	98.2	95.6	P/P	90 - 110
Selenium	98.8	95.7	P/P	90 - 110
Thallium	98.8	97.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A120652

Included Lab Sample IDs: 2425963

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	106	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A120671

Included Lab Sample IDs: 2425967

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	96.4	95.3	P/P	90 - 110
Beryllium	94.8	93.7	P/P	90 - 110
Manganese	95.0	95.8	P/P	90 - 110
Silver	97.0	96.2	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A120686

Included Lab Sample IDs: 2425962

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A120688

Included Lab Sample IDs: 2425963

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A120693

Included Lab Sample IDs: 2425967

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	95.9	97.7	P/P	90 - 110
Iron	94.5	99.4	P/P	90 - 110
Magnesium	94.2	98.8	P/P	90 - 110
Potassium	97.4	103	P/P	90 - 110
Sodium	101	105	P/P	90 - 110
Strontium	105	102	P/P	90 - 110
Tin	99.7	95.5	P/P	90 - 110
Titanium	101	97.1	P/P	90 - 110
Vanadium	101	96.8	P/P	90 - 110
Zinc	101	96.9	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A120694

Included Lab Sample IDs: 2425967

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Copper	96.4	94.0	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A120695

Included Lab Sample IDs: 2425968

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	98.0		P	80 - 120
Avobenzone	95.8		P	80 - 120
Dechlorane 602	101		P	80 - 120
Dechlorane 603	101		P	80 - 120
Dechlorane Plus	100		P	80 - 120
Hexabromobenzene	96.8		P	80 - 120
Octinoxate	95.3		P	80 - 120
Oxybenzone	91.9		P	80 - 120
PBB-153	99.9		P	80 - 120
PBDE-47	97.1		P	80 - 120
PBDE-99	99.5		P	80 - 120
Pentabromotoluene	97.4		P	80 - 120
Tetradecachloro-m-terphenyl	88.7		P	80 - 120
Tri-o-cresyl Phosphate	101		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	93.4		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	98.2		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	96.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A120734
Included Lab Sample IDs: 2425966

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	114	107	P/P	50 - 150
2,4,5-T	109	101	P/P	50 - 150
Acetaminophen	129	127	P/P	60 - 160
Acetamiprid	128	125	P/P	50 - 150
Afidopyropen	113	118	P/P	50 - 150
Bentazon	148	144	P/P	50 - 160
Benzovindiflupyr	124	120	P/P	50 - 150
Carbamazepine	133	137	P/P	60 - 150
Clothianidin	134	139	P/P	60 - 150
Dinotefuran	145	140	P/P	50 - 150
Diuron	124	130	P/P	60 - 160
Fenuron	128	126	P/P	60 - 150
Fluridone	135	135	P/P	60 - 160
Hydrocodone	129	119	P/P	60 - 150
Ibuprofen	103	109	P/P	50 - 160
Imazapyr	115	117	P/P	50 - 150
Imidacloprid	112	106	P/P	60 - 150
Linuron	108	111	P/P	60 - 150
Mandestrobin	133	131	P/P	50 - 150
MCPP	109	117	P/P	50 - 150
Naproxen	112	142	P/P	50 - 160
Primidone	99.1	116	P/P	60 - 150
Pyraclostrobin	127	125	P/P	60 - 150
Silvex	112	112	P/P	50 - 150
Thiamethoxam	130	125	P/P	50 - 150
Tolfenpyrad	121	117	P/P	60 - 150
Triclopyr	95.2	112	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A120745
Included Lab Sample IDs: 2425968

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	86.9		P	80 - 120
Alachlor	94.0		P	80 - 120
Ametryn	101		P	80 - 120
Atrazine	90.9		P	80 - 120
Atrazine Desethyl	99.2		P	80 - 120
Azinphos Methyl	158*		F	80 - 120
Azoxystrobin	103		P	80 - 120
Bromacil	97.9		P	80 - 120
Butylate	97.9		P	80 - 120
Caffeine	106		P	80 - 120
Carbophenothion	91.2		P	80 - 120
Carfentrazone Ethyl	98.8		P	80 - 120
Chlorfenapyr	86.4		P	80 - 120
Chlorpyrifos Ethyl	86.1		P	80 - 120
Chlorpyrifos Methyl	91.6		P	80 - 120
Coumaphos	96.2		P	80 - 120
Cyanazine	96.0		P	80 - 120
Cyprodinil	111		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A120745
Included Lab Sample IDs: 2425968

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Demeton	100		P	80 - 120
Diazinon	98.5		P	80 - 120
Difenoconazole	87.8		P	80 - 120
Dimethenamid	98.5		P	80 - 120
Dimethomorph	94.3		P	80 - 120
Disulfoton	98.7		P	80 - 120
Dithiopyr	100		P	80 - 120
EPTC	100		P	80 - 120
Ethion	102		P	80 - 120
Ethoprop	99.0		P	80 - 120
Etridiazole	99.9		P	80 - 120
Fenamiphos	89.2		P	80 - 120
Fenbuconazole	84.7		P	80 - 120
Fipronil	87.3		P	80 - 120
Fipronil Desulfinyl	95.7		P	80 - 120
Fipronil Sulfide	97.4		P	80 - 120
Fipronil Sulfone	95.8		P	80 - 120
Fluazifop-P-butyl	99.9		P	80 - 120
Fludioxonil	97.8		P	80 - 120
Flumioxazin	93.8		P	80 - 120
Flutolanil	98.6		P	80 - 120
Fluxapyroxad	98.6		P	80 - 120
Fonofos	96.2		P	80 - 120
Hexazinone	99.4		P	80 - 120
Imazalil	94.1		P	80 - 120
Iprodione	81.8		P	80 - 120
Loratadine	93.2		P	80 - 120
Malathion	85.4		P	80 - 120
Metalaxyl	88.1		P	80 - 120
Metolachlor	98.7		P	80 - 120
Metribuzin	96.8		P	80 - 120
Mevinphos	103		P	80 - 120
Molinate	89.8		P	80 - 120
Myclobutanil	90.1		P	80 - 120
Naled	93.7		P	80 - 120
Napropamide	104		P	80 - 120
Norflurazon	99.4		P	80 - 120
Oxadiazon	102		P	80 - 120
Oxyfluorfen	95.9		P	80 - 120
Parathion Ethyl	103		P	80 - 120
Parathion Methyl	102		P	80 - 120
Pendimethalin	101		P	80 - 120
Phenytol	97.6		P	80 - 120
Phorate	98.8		P	80 - 120
Prodiamine	92.4		P	80 - 120
Prometon	94.0		P	80 - 120
Prometryn	101		P	80 - 120
Pronamide	98.0		P	80 - 120
Propanil	108		P	80 - 120
Propargite	97.8		P	80 - 120
Propiconazole	86.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A120745
Included Lab Sample IDs: 2425968

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraflufen Ethyl	100		P	80 - 120
Pyridaben	103		P	80 - 120
Pyriproxyfen	165*		F	80 - 120
Simazine	92.0		P	80 - 120
Stirophos	90.6		P	80 - 120
Sulfentrazone	102		P	80 - 120
Tebuconazole	101		P	80 - 120
Terbufos	98.7		P	80 - 120
Terbuthylazine	88.9		P	80 - 120
Thiobencarb	99.5		P	80 - 120
Triadimefon	101		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A120767
Included Lab Sample IDs: 2425963

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.6	96.6	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)	99.1					2.31	
EPA 180.1 Rev. 2.0	Turbidity	99.7					2.09	
EPA 200.7 Rev. 4.4	Calcium	96.6	95.7	101				1.64
	Iron	94.6	98.7	99.6	103			0.869
	Magnesium	96.5	95.9	104				1.73
	Potassium	98.4	97.5	105				0.803
	Sodium	101	102	107				0.711
	Strontium	96.4	99.6	100	105			0.522
	Tin	96.1	94.5	91.5	98.4			3.17
	Titanium	98.0	95.2	95.3	100			0.0979
	Vanadium	98.1	94.3	94.5	101			0.230
	Zinc	96.9	92.7	93.1	97.9			0.488
EPA 200.8 Rev. 5.4	Aluminum	102	102	103	103			0.963
	Antimony	101	101	101	102			0.116
	Arsenic	102	102	102	101			0.0813
	Barium	102	103	104	103			0.408
	Beryllium	96.3	96.8	98.5	90.6			1.67
	Boron	106	106	108	108			1.39
	Cadmium	99.9	100	101	99.6			0.480
	Chromium	97.8	99.0	99.2	99.0			0.176
	Cobalt	100	99.1	99.1	98.8			0.0474
	Copper	93.9	98.3	91.9	90.7			1.38
	Lead	103	104	105	103			0.625
	Manganese	94.4	90.9	94.1	93.2			1.68
	Molybdenum	100	99.8	99.8	99.2			0.0305
	Nickel	102	101	102	99.1			1.24
	Selenium	100	102	100	98.0			1.59
	Silver	113	110	109	108			0.833
	Thallium	101	106	106	105			0.528
EPA 300.0 Rev. 2.1	Chloride	103	102	97.8			0.246	
	Sulfate	101	97.8	100			0.0255	
EPA 350.1 Rev. 2.0	Ammonia-N	95.2	95.2	99.0				3.33
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.8	94.3	98.0				3.05
EPA 353.2 Rev. 2.0	NO2NO3-N	100	100	100				0.0
EPA 365.1 Rev. 2.0	Total-P	98.8	102	98.6				2.75
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.8	98.9	99.9				1.01
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	157	110	104				5.68
	Acetochlor	97.8	110	103				6.91
	Alachlor	94.4	103	96.8				6.53
	Ametryn	118	149	140				6.08
	Atrazine	90.6						6.81
	Atrazine Desethyl	97.9	105	102				2.22
	Avobenzone	153	158	150				5.58
	Azinphos Methyl	116	167	227				30.2
	Azoxystrobin	96.3	120	102				15.3
	Bromacil	78.6	110	103				4.76
	Butylate	54.7	55.7	51.3				8.23
	Caffeine	84.0	301	338				10.0
	Carbophenothion	109	121	108				11.8
	Carfentrazone Ethyl	101	114	93.1				20.4
	Chlorfenapyr	76.2	83.7	74.3				11.9
	Chlorpyrifos Ethyl	96.7	101	94.6				6.37

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Chlorpyrifos Methyl	86.9	90.7	91.4		0.759
	Coumaphos	171	156	194		22.0
	Cyanazine	152	176	167		5.52
	Cyprodinil	85.6	101	102		1.08
	Dechlorane 602	115	82.0	76.6		6.88
	Dechlorane 603	142	113	103		9.74
	Dechlorane Plus	135	105	98.2		6.42
	Demeton	102	104	92.8		11.4
	Diazinon	117	127	122		4.38
	Difenoconazole	128	142	143		1.22
	Dimethenamid	88.0	93.4	85.1		9.28
	Dimethomorph	175	232	255		9.21
	Disulfoton	110	116	104		11.0
	Dithiopyr	98.4	93.2	92.4		0.805
	EPTC	56.0	53.2	48.2		9.76
	Ethion	116	107	97.9		9.33
	Ethoprop	88.2	94.1	89.5		4.98
	Etridiazole	66.8	75.0	60.0		22.2
	Fenamiphos	107	116	115		1.15
	Fenbuconazole	88.8	93.6	85.4		9.19
	Fipronil	103	121	121		0.0573
	Fipronil Desulfinyl	92.9	95.5	106		10.0
	Fipronil Sulfide	82.7	91.0	87.4		4.07
	Fipronil Sulfone	116	112	110		1.96
	Fluazifop-P-butyl	115	123	129		4.73
	Fludioxonil	89.2	92.8	87.9		5.45
	Flumioxazin	175	194	207		6.90
	Flutolanil	29.3	57.8	59.0		1.96
	Fluxapyroxad	110	120	139		14.5
	Fonofos	79.6	84.0	87.9		4.59
	Hexabromobenzene	141	124	117		6.18
	Hexazinone	95.7	95.7	103		6.06
	Imazalil	91.0	85.2	93.5		9.25
	Iprodione	99.3	114	129		12.4
	Loratadine	78.5	117	138		16.6
	Malathion	6.00	33.6	31.6		6.16
	Metalaxyl	101	101	108		4.37
	Metolachlor	82.8	94.3	101		5.78
	Metribuzin	95.1	106	106		0.110
	Mevinphos	90.1	90.2	99.2		9.51
	Molinate	59.3	56.4	60.6		7.15
	Myclobutanil	105	109	122		11.5
	Naled	34.0	35.3	38.3		8.34
	Napropamide	53.5	75.1	86.4		13.9
	Norflurazon	88.6	76.4	97.4		16.6
	Octinoxate	135	39.2	32.6		5.44
	Oxadiazon	96.4	95.1	109		13.4
	Oxybenzone	128	117	110		6.60
	Oxyfluorfen	109	117	114		2.83
	Parathion Ethyl	103	106	106		0.250
	Parathion Methyl	129	139	136		2.14
	PBB-153	163	131	122		6.74
	PBDE-47	135	106	101		5.53
	PBDE-99	145	103	96.6		6.31

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Pendimethalin	97.6	127	122		3.84
	Pentabromotoluene	123	108	102		5.26
	Phenytoin	81.2	49.8	53.6		7.38
	Phorate	86.2	93.0	87.5		6.07
	Prodiamine	44.3	47.3	47.1		0.354
	Prometon	93.7	132	143		8.22
	Prometryn	71.8	81.6	91.7		11.6
	Pronamide	90.8	101	104		2.75
	Propanil	108	116	113		2.83
	Propargite	129	94.5	106		11.8
	Propiconazole	70.7	68.0	86.3		15.2
	Pyraflufen Ethyl	121	112	139		22.2
	Pyridaben	150	164	175		6.62
	Pyriproxyfen	80.0	157	94.5		49.9
	Simazine	71.3	101	97.8		2.95
	Stiropfos	14.8	23.4	21.5		8.31
	Sulfentrazone	113	112	124		10.2
	Tebuconazole	104	82.8	95.3		14.0
	Terbufos	110	116	121		4.29
	Terbutylazine	87.3	95.1	97.1		2.08
	Tetradecachloro-m-terphenyl	111	108	104		3.11
	Thiobencarb	10.2	54.6	54.3		0.519
	Tri-o-cresyl Phosphate	137	124	120		3.78
	Triadimefon	98.2	91.2	101		10.5
	Tris(1-chloro-2-propyl) phosphate (TCPP)	126	117	106		9.72
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	122	111	109		2.34
	Tris(2-chloroethyl) phosphate (TCEP)	152	142	135		4.89
EPA 8321B	2,4-D	81.8	118	113		4.43
	2,4,5-T	70.3	104	109		4.92
	Acesulfame K	94.8	60.0	81.4		30.2
	Acetaminophen	79.0	99.4	98.4		1.09
	Acetamiprid	79.5	60.0	61.8		3.04
	Afidopyropen	57.9	66.9	73.3		9.12
	AMPA	144	25.0	25.9		2.87
	Bentazon	126	117	119		1.48
	Benzovindiflupyr	78.2	80.7	79.7		1.21
	Carbamazepine	69.8	50.0	55.9		11.1
	Clothianidin	88.8	87.2	84.9		2.58
	Dinotefuran	88.5	67.5	82.3		19.8
	Diuron	44.0	31.6	34.4		8.62
	Endothall	106	133	124		6.61
	Fenuron	96.2	61.1	64.6		5.50
	Fluridone	98.8	87.9	90.3		2.69
	Glufosinate	93.4	42.6	42.5		0.199
	Glyphosate	91.5	79.8	82.6		3.46
	Hydrocodone	80.8	60.2	62.3		3.44
	Ibuprofen	72.5	69.8	66.2		5.32
	Imazapyr	79.8	98.5	95.7		2.90
	Imidacloprid	73.2	115	120		4.25
	Linuron	52.1	52.8	50.5		4.34
	Mandestrobin	81.4	80.0	85.3		6.39

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 8321B	MCP	86.2	123	124		0.402
	Naproxen	69.0	128	128		0.122
	Primidone	68.7	78.0	75.2		3.65
	Pyraclostrobin	74.0	77.3	76.6		0.916
	Silvex	87.9	114	116		2.05
	Sucralose	83.8	91.2	125		30.8
	Thiamethoxam	98.3	76.5	76.7		0.286
	Tolfenpyrad	56.8	57.7	56.4		2.18
	Triclopyr	70.8	103	102		0.638
SM 2320 B-2011	Total Alkalinity	93.6				0.713
SM 2540 C-2015	TDS	98.8				8.45
SM 2540 D-2015	TSS	94.9				
SM 4500-F- C-2011	Fluoride	97.5	99.1	98.6		0.498
SM 5310 B-2011	Organic Carbon	96.2	99.2			1.63

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2425962
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2425962
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2425967
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2425967
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2425962
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2425962
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2425963
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2425963
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2425963
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2425963
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2425964
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2425968
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2425968
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2425966
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2425962
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2425967
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2425962
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2425962
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2425962
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2425963

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	07/21/2023			07/21/2023 14:37	Anna M. Plaviak	2425962
EPA 180.1 Rev. 2.0	07/21/2023			07/21/2023 13:52	Alexis Price	2425962
EPA 200.7 Rev. 4.4	07/21/2023	07/24/2023 12:50	George D Taylor	07/27/2023 20:56	Samatha Luckman	2425967
EPA 200.8 Rev. 5.4	07/21/2023	07/24/2023 12:50	George D Taylor	07/25/2023 22:35	Conrad Hartmann	2425967
	07/21/2023	07/24/2023 12:50	George D Taylor	07/26/2023 17:10	Emily M Philpot	2425967
	07/21/2023	07/24/2023 12:50	George D Taylor	07/27/2023 15:31	Conrad Hartmann	2425967
EPA 300.0 Rev. 2.1	07/21/2023			07/26/2023 12:49	James L Waggeberby	2425962
EPA 350.1 Rev. 2.0	07/21/2023			08/01/2023 12:52	Ping Hua	2425963
EPA 351.2 Rev. 2.0	07/21/2023	07/25/2023 12:24	Simonne.V. Calhoun	07/26/2023 13:38	Ping Hua	2425963
EPA 353.2 Rev. 2.0	07/21/2023			07/25/2023 13:37	Anna M. Plaviak	2425963
EPA 365.1 Rev. 2.0	07/21/2023	07/25/2023 14:03	Alexis Price	07/27/2023 15:08	James L Waggeberby	2425963
EPA 365.1 Rev. 2.0 dissolved	07/21/2023			07/21/2023 14:25	Elise M. Gillis	2425964
EPA 8270E	07/21/2023	07/24/2023 08:30	Rasheda Ghaffari	07/27/2023 18:33	Vandana T. Nagar	2425968
	07/21/2023	07/24/2023 08:30	Rasheda Ghaffari	07/27/2023 22:05	Arthur Maknenko	2425968
EPA 8321B	07/21/2023	07/24/2023 10:00	Hana Lee	07/24/2023 19:12	Tae K Lee	2425966
	07/21/2023	07/24/2023 10:00	Hana Lee	07/25/2023 05:36	Tae K Lee	2425966
	07/21/2023	07/25/2023 14:00	Hoor Shaik	07/25/2023 23:17	Juyoung Kim	2425966
SM 2320 B-2011	07/21/2023			07/25/2023 03:46	Dale L. Simmons	2425962
SM 2340 B-2011	07/21/2023			07/27/2023 20:56	Samatha Luckman	2425967
SM 2540 C-2015	07/21/2023			07/25/2023 15:46	Yijie Li	2425962
SM 2540 D-2015	07/21/2023			07/25/2023 15:46	Yijie Li	2425962
SM 4500-F- C-2011	07/21/2023			07/25/2023 03:46	Dale L. Simmons	2425962
SM 5310 B-2011	07/21/2023			07/25/2023 06:31	Khloe J Berg	2425963