

Chemical Analysis Report

NE-DIST-2023-11-08-02

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

Event Description: **LSJR Hastings 2023**
Request ID: **RQ-2023-11-06-28**
Customer: **NE-DIST**
Project ID: **SMP**

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Certified by: Colin Wright, Program Administrator

Date Certified: 30-NOV-2023 16:03



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: 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: SIXTEEN MILE CREEK AT ASHLEY ST

Collection Date/Time: 11/07/2023 09:55

Field ID: 20030688

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2449910	EPA 8321B	2,4-D	0.0058	I	ug/L	P437576	
		Acesulfame K	0.12	I	ug/L	P437555	
		2,4,5-T	0.0040	U	ug/L	P437576	
		AMPA	0.69		ug/L	P437555	
		Acetaminophen	0.0080	U	ug/L	P437576	
		Acetamiprid	0.0020	U	ug/L	P437576	
		Endothall	0.25	U	ug/L	P437555	
		Glufosinate	0.10	U	ug/L	P437555	
		Glyphosate	0.90		ug/L	P437555	
		Afidopyropen	0.0020	U	ug/L	P437576	
		Bentazon	8.0E-04	U	ug/L	P437576	
		Sucralose	0.20		ug/L	P437555	
		Benzovindiflupyr	0.0020	U	ug/L	P437576	
		Carbamazepine	8.0E-04	U	ug/L	P437576	
		Clothianidin	0.0020	U	ug/L	P437576	
		Dinotefuran	0.0020	U	ug/L	P437576	
		Diuron	0.0020	U	ug/L	P437576	
		Fenuron	0.032	U	ug/L	P437576	
		Fluridone	0.0090		ug/L	P437576	
		Imazapyr	0.16		ug/L	P437576	
		Hydrocodone	0.0020	U	ug/L	P437576	
		Ibuprofen	0.080	U	ug/L	P437576	
		Imidacloprid	0.0061	I	ug/L	P437576	
		Linuron	0.0040	U	ug/L	P437576	
		Mandestrobin	0.0020	U	ug/L	P437576	
		MCPP	0.0020	U	ug/L	P437576	
		Naproxen	0.0080	U	ug/L	P437576	
		Primidone	0.0040	U	ug/L	P437576	
		Pyraclostrobin	0.0020	U	ug/L	P437576	
		Silvex	0.0040	U	ug/L	P437576	
		Thiamethoxam	0.0020	U	ug/L	P437576	
		Tolfenpyrad	0.0020	U	ug/L	P437576	
		Triclopyr	0.0040	U	ug/L	P437576	

Ref. Method and Comment:

EPA 8321B: MS accuracy for imazapyr could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: UNNAMED DITCH AT COWPEN BRANCH RD

Collection Date/Time: 11/07/2023 10:20

Field ID: G2NE1222

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2449909	EPA 8270E	Oxybenzone**	10	U	ng/L	P437464	
		Acetochlor	0.21	U	ng/L	P437464	
		Octinoxate**	160	U	ng/L	P437464	
		Alachlor	0.42	U	ng/L	P437464	
		Avobenzone**	100	U	ng/L	P437464	
		Ametryn	1.1	U	ng/L	P437464	
		Atrazine	0.49	I	ng/L	P437464	
		PBDE-47**	4.2	U	ng/L	P437464	
		Atrazine Desethyl	1.4	U	ng/L	P437464	
		PBDE-99**	5.2	U	ng/L	P437464	
		Azinphos Methyl	3.1	UJ	ng/L	P437464	CCV
		Tri-o-cresyl Phosphate**	6.3	U	ng/L	P437464	
		Azoxystrobin	45		ng/L	P437464	
		Bromacil	0.63	U	ng/L	P437464	
		2-Ethylhexyl	13	U	ng/L	P437464	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.47	U	ng/L	P437464	
		Dechlorane Plus**	31	U	ng/L	P437464	
		Caffeine**	7.8	U	ng/L	P437464	
		Dechlorane 602**	5.2	U	ng/L	P437464	
		Carbophenothion	0.52	U	ng/L	P437464	
		Dechlorane 603**	4.2	U	ng/L	P437464	
		Carfentrazone Ethyl	0.16	U	ng/L	P437464	
		Hexabromobenzene**	6.3	U	ng/L	P437464	
		Chlorfenapyr	0.31	U	ng/L	P437464	
		PBB-153**	6.3	UJ	ng/L	P437464	LCS
		Chlorpyrifos Ethyl	0.31	U	ng/L	P437464	
		Pentabromotoluene**	3.1	U	ng/L	P437464	
		Chlorpyrifos Methyl	0.10	U	ng/L	P437464	MS
		Tris(2-chloroethyl) phosphate (TCEP)**	57	U	ng/L	P437464	
		Coumaphos	1.1	U	ng/L	P437464	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	26	UJ	ng/L	P437464	LCS
		Cyanazine	5.2	U	ng/L	P437464	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P437464	
		Cyprodinil	0.21	U	ng/L	P437464	
		Tetradecachloro-m-terphenyl**	7.8	U	ng/L	P437464	
		Demeton	3.7	U	ng/L	P437464	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	63	U	ng/L	P437464	
		Diazinon	0.13	U	ng/L	P437464	
		Difenoconazole	0.87	I	ng/L	P437464	
		Dimethenamid	0.10	U	ng/L	P437464	
		Dimethomorph	0.31	U	ng/L	P437464	
		Disulfoton	0.63	U	ng/L	P437464	

Field ID: G2NE1222

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2449909	EPA 8270E	Dithiopyr	1.0	U	ng/L	P437464	RPD
		EPTC	0.52	U	ng/L	P437464	
		Ethion	0.31	U	ng/L	P437464	
		Ethoprop	1.9	J	ng/L	P437464	
		Etridiazole	0.10	U	ng/L	P437464	
		Fenamiphos	0.47	U	ng/L	P437464	
		Fenbuconazole	0.52	U	ng/L	P437464	
		Fipronil	1.7		ng/L	P437464	
		Fipronil Desulfinyl**	0.66		ng/L	P437464	RPD
		Fipronil Sulfide	3.8		ng/L	P437464	
		Fipronil Sulfone	16	J	ng/L	P437464	
		Fluazifop-P-butyl	0.10	U	ng/L	P437464	
		Fludioxonil	11	J	ng/L	P437464	MS
		Flumioxazin	3.1	U	ng/L	P437464	
		Flutolanil	0.10	U	ng/L	P437464	
		Fluxapyroxad	0.27	I	ng/L	P437464	
		Fonofos	0.16	U	ng/L	P437464	
		Hexazinone	0.52	U	ng/L	P437464	
		Imazalil	0.68	U	ng/L	P437464	
		Iprodione	0.52	U	ng/L	P437464	
		Loratadine**	0.31	U	ng/L	P437464	
		Malathion	0.37	U	ng/L	P437464	
		Metalaxyl	0.52	U	ng/L	P437464	
		Metolachlor	13		ng/L	P437464	
		Metribuzin	13	J	ng/L	P437464	
		Mevinphos	1.0	U	ng/L	P437464	
		Molinate	0.26	U	ng/L	P437464	
		Myclobutanil	0.37	U	ng/L	P437464	
		Naled	2.6	U	ng/L	P437464	
		Napropamide	0.73	U	ng/L	P437464	
		Norflurazon	1.0	U	ng/L	P437464	
		Oxadiazon	0.37	U	ng/L	P437464	
		Oxyfluorfen	0.21	U	ng/L	P437464	RPD
		Parathion Ethyl	0.16	U	ng/L	P437464	
		Parathion Methyl	0.21	U	ng/L	P437464	RPD
		Pendimethalin	1.8	U	ng/L	P437464	
		Phenytol**	5.5	U	ng/L	P437464	
		Phorate	0.26	U	ng/L	P437464	
		Prodiamine	0.21	U	ng/L	P437464	
		Prometon	3.1	U	ng/L	P437464	
		Prometryn	0.37	U	ng/L	P437464	
		Pronamide	0.10	U	ng/L	P437464	
		Propanil	0.10	U	ng/L	P437464	
		Propargite	0.84	U	ng/L	P437464	
		Propiconazole	18		ng/L	P437464	

Field ID: G2NE1222

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2449909	EPA 8270E	Pyraflufen Ethyl	0.31	U	ng/L	P437464	MS
		Pyridaben	6.5	I	ng/L	P437464	
		Pyriproxyfen	0.26	UJ	ng/L	P437464	CCV, LCS
		Simazine	0.26	U	ng/L	P437464	
		Stirophos	0.42	U	ng/L	P437464	
		Sulfentrazone	1.5	U	ng/L	P437464	
		Tebuconazole	1.5	U	ng/L	P437464	
		Terbufos	0.21	U	ng/L	P437464	
		Terbuthylazine	0.21	U	ng/L	P437464	
		Thiobencarb	0.52	U	ng/L	P437464	
		Triadimefon	0.16	U	ng/L	P437464	

Ref. Method and Comment:
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: Estimated values for ethoprop, metribuzin, fludioxonil, and fipronil sulfone due to internal standard recovery exceeding control limits.
Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: COW CREEK AT PUTNAM COUNTY BLVD

Collection Date/Time: 11/07/2023 10:50

Field ID: G2NE1143

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2449889	DEP SOP: NU-094-1	Color (true)	38		PCU	P437592	
	EPA 180.1 Rev. 2.0	Turbidity	2.2		NTU	P437588	
	EPA 300.0 Rev. 2.1	Chloride	230		mg Cl/L	P437937	
		Sulfate	160		mg SO4/L	P437941	
	SM 2320 B-2011	Total Alkalinity	169		mg CaCO3/L	P437916	
	SM 2540 C-2015	TDS	818		mg/L	P438106	
	SM 2540 D-2015	TSS	3	I	mg/L	P437819	
	SM 4500-F- C-2011	Fluoride	0.34		mg F/L	P437919	
2449890	EPA 350.1 Rev. 2.0	Ammonia-N	0.026		mg N/L	P437984	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.71		mg N/L	P437563	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.14		mg N/L	P437975	
	EPA 365.1 Rev. 2.0	Total-P	0.45		mg P/L	P437713	
	SM 5310 B-2011	Organic Carbon	13		mg C/L	P437785	

Ref. Method and Comment:

DEP SOP: NU-094-1: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P437592

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P437588

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437937

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437941

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P437984

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P437563

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437975

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P437713

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

Reference Method: EPA 8270E
Batch ID: P437464

Component	Result	Code	Units
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	60	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P437464

Component	Result	Code	Units
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.45	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P437464

Component	Result	Code	Units
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	150	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	6.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.7	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytol	5.3	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	25	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	55	U	ng/L

Reference Method: EPA 8321B

Batch ID: P437555

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P437555

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B
Batch ID: P437576

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
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P437916

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

Reference Method: SM 2540 C-2015
Batch ID: P438106

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P437819

Component	Result	Code	Units
TSS	2	U	mg/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 4500-F- C-2011
Batch ID: P437919

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P437785

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: P437592

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P437588

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437937

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	108		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437941

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	108		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P437984

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P437563

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	97.6		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437975

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: P437713

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

Reference Method: EPA 8270E
Batch ID: P437464

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	72.7		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	63.6		P	37 - 154
Acetochlor	77.8		P	64 - 124
Alachlor	86.6		P	61 - 118

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
 Batch ID: P437464

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ametryn	124		P	47 - 158
Atrazine	97.7		P	68 - 121
Atrazine Desethyl	103		P	30 - 119
Avobenzone	158		P	48 - 193
Azinphos Methyl	33.4		P	30 - 194
Azoxystrobin	145		P	58 - 154
Bromacil	80.9		P	47 - 126
Butylate	68.6		P	31 - 83.0
Caffeine	112		P	10 - 180
Carbophenothion	118		P	59 - 133
Carfentrazone Ethyl	123		P	59 - 147
Chlorfenapyr	87.9		P	52 - 118
Chlorpyrifos Ethyl	112		P	59 - 119
Chlorpyrifos Methyl	120		P	65 - 123
Coumaphos	148		P	11 - 223
Cyanazine	159		P	63 - 250
Cyprodinil	132		P	52 - 143
Dechlorane 602	112		P	23 - 142
Dechlorane 603	67.2		P	51 - 171
Dechlorane Plus	96.1		P	46 - 161
Demeton	86.7		P	42 - 119
Diazinon	80.6		P	67 - 132
Difenoconazole	60.7		P	12 - 204
Dimethenamid	73.9		P	53 - 113
Dimethomorph	230		P	13 - 238
Disulfoton	108		P	56 - 126
Dithiopyr	88.2		P	58 - 127
EPTC	62.0		P	31 - 78.0
Ethion	33.1		P	24 - 127
Ethoprop	98.4		P	60 - 118
Etridiazole	78.3		P	32 - 91.0
Fenamiphos	125		P	54 - 129
Fenbuconazole	104		P	31 - 162
Fipronil	82.0		P	56 - 131
Fipronil Desulfinyl	89.7		P	58 - 132
Fipronil Sulfide	96.0		P	51 - 123
Fipronil Sulfone	97.6		P	50 - 125
Fluazifop-P-butyl	82.3		P	52 - 132
Fludioxonil	89.6		P	52 - 129
Flumioxazin	61.1		P	34 - 250
Flutolanil	97.4		P	45 - 128
Fluxapyroxad	62.4		P	31 - 150
Fonofos	115		P	60 - 116
Hexabromobenzene	64.3		P	52 - 165
Hexazinone	92.9		P	59 - 120
Imazalil	118		P	39 - 134
Iprodione	90.5		P	39 - 243
Loratadine	231		P	10 - 240
Malathion	113		P	53 - 145
Metalaxyl	86.0		P	59 - 120
Metolachlor	104		P	64 - 122
Metribuzin	102		P	33 - 128

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P437464

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Mevinphos	108		P	48 - 119
Molinate	66.4		P	42 - 89.0
Myclobutanil	93.1		P	54 - 129
Naled	47.0		P	10 - 138
Napropamide	65.6		P	40 - 122
Norflurazon	85.6		P	49 - 132
Octinoxate	110		P	29 - 176
Oxadiazon	91.5		P	50 - 115
Oxybenzone	121		P	45 - 145
Oxyfluorfen	118		P	62 - 149
Parathion Ethyl	101		P	68 - 119
Parathion Methyl	124		P	68 - 147
PBB-153	37.1		F	42 - 179
PBDE-47	85.3		P	44 - 141
PBDE-99	92.3		P	36 - 141
Pendimethalin	115		P	59 - 158
Pentabromotoluene	78.3		P	58 - 148
Phenytoin	20.4		P	10 - 151
Phorate	101		P	44 - 124
Prodiamine	47.7		P	10 - 136
Prometon	109		P	45 - 131
Prometryn	123		P	52 - 140
Pronamide	109		P	70 - 129
Propanil	81.5		P	54 - 144
Propargite	53.8		P	10 - 191
Propiconazole	88.7		P	49 - 128
Pyraflufen Ethyl	97.6		P	46 - 141
Pyridaben	136		P	29 - 198
Pyriproxyfen	24.2		F	33 - 221
Simazine	99.9		P	62 - 119
Stirophos	53.1		P	13 - 144
Sulfentrazone	35.4		P	12 - 152
Tebuconazole	40.7		P	10 - 135
Terbufos	123		P	67 - 136
Terbuthylazine	104		P	66 - 113
Tetradecachloro-m-terphenyl	135		P	30 - 235
Thiobencarb	87.2		P	51 - 125
Tri-o-cresyl Phosphate	105		P	50 - 150
Triadimefon	87.6		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	165		F	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	137		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	137		P	59 - 166

Reference Method: EPA 8321B

Batch ID: P437555

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	103		P	40 - 150
AMPA	68.3		P	40 - 160
Endothall	90.8		P	40 - 160
Glufosinate	89.3		P	40 - 160
Glyphosate	95.5		P	40 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P437555

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	100		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P437576

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	95.5		P	40 - 150
2,4,5-T	82.6		P	40 - 150
Acetaminophen	86.9		P	30 - 150
Acetamiprid	84.9		P	40 - 150
Afidopyropen	36.6		P	30 - 150
Bentazon	69.4		P	30 - 150
Benzovindiflupyr	82.8		P	40 - 150
Carbamazepine	70.1		P	40 - 150
Clothianidin	90.9		P	40 - 150
Dinotefuran	100		P	40 - 150
Diuron	68.6		P	40 - 150
Fenuron	92.0		P	40 - 150
Fluridone	87.1		P	40 - 150
Hydrocodone	94.5		P	40 - 150
Ibuprofen	64.6		P	40 - 150
Imazapyr	88.2		P	40 - 150
Imidacloprid	89.8		P	40 - 150
Linuron	75.6		P	40 - 150
Mandestrobin	90.7		P	40 - 150
MCPP	81.9		P	40 - 150
Naproxen	60.5		P	40 - 150
Primidone	84.4		P	40 - 150
Pyraclostrobin	82.3		P	40 - 150
Silvex	81.9		P	40 - 150
Thiamethoxam	89.4		P	40 - 150
Tolfenpyrad	51.7		P	30 - 150
Triclopyr	75.4		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P437916

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P438106

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	94.0		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P437819

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	102		P	85 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P437919

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

Reference Method: SM 5310 B-2011
Batch ID: P437785

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437937

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2449657	Chloride	106		P	90 - 110
2449944	Chloride	106		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437941

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2449657	Sulfate	107		P	90 - 110
2449944	Sulfate	107		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P437984

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2449890	Ammonia-N	97.6	98.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P437563

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2449846	Kjeldahl Nitrogen	114	99.8	F/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437975

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2449493	NO2NO3-N	100		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P437713

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2449709	Total-P	104	106	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P437464

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2449426	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	84.3	73.1	P/P	50 - 150
2449426	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	63.9	84.2	P/P	29 - 155
2449426	Acetochlor	72.5	89.7	P/P	60 - 124
2449426	Alachlor	68.7	71.5	P/P	54 - 122
2449426	Ametryn	102	114	P/P	51 - 208
2449426	Atrazine	84.5	85.9	P/P	57 - 131
2449426	Atrazine Desethyl	95.9	87.9	P/P	13 - 124
2449426	Avobenzone	124	142	P/P	35 - 187
2449426	Azinphos Methyl	133	130	P/P	43 - 276
2449426	Azoxystrobin	100	134	P/P	52 - 300
2449426	Bromacil	70.6	91.2	P/P	44 - 134
2449426	Butylate	69.3	64.3	P/P	23 - 82.0
2449426	Caffeine	116	117	P/P	10 - 277
2449426	Carbophenothion	131	112	P/P	47 - 135

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P437464

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2449426	Carfentrazone Ethyl	143	118	P/P	46 - 147
2449426	Chlorfenapyr	76.3	93.5	P/P	43 - 114
2449426	Chlorpyrifos Ethyl	108	97.8	P/P	47 - 124
2449426	Chlorpyrifos Methyl	125	146	P/F	60 - 135
2449426	Coumaphos	91.7	153	P/P	10 - 222
2449426	Cyanazine	146	160	P/P	10 - 257
2449426	Cyprodinil	131	111	P/P	42 - 148
2449426	Dechlorane 602	97.4	94.2	P/P	14 - 133
2449426	Dechlorane 603	80.8	89.2	P/P	18 - 191
2449426	Dechlorane Plus	79.8	85.9	P/P	23 - 154
2449426	Demeton	96.3	87.2	P/P	41 - 137
2449426	Diazinon	93.7	107	P/P	64 - 139
2449426	Difenoconazole	72.1	93.4	P/P	46 - 254
2449426	Dimethenamid	73.3	91.8	P/P	47 - 117
2449426	Dimethomorph	194	225	P/P	14 - 255
2449426	Disulfoton	99.8	111	P/P	52 - 130
2449426	Dithiopyr	69.5	100	P/P	40 - 121
2449426	EPTC	56.4	56.8	P/P	19 - 78.0
2449426	Ethion	53.6	70.0	P/P	12 - 124
2449426	Ethoprop	109	95.7	P/P	68 - 144
2449426	Etridiazole	57.1	67.2	P/P	26 - 96.0
2449426	Fenamiphos	104	104	P/P	41 - 129
2449426	Fenbuconazole	66.7	94.7	P/P	26 - 169
2449426	Fipronil	71.5	105	P/P	46 - 145
2449426	Fipronil Desulfinyl	72.5	107	P/P	47 - 136
2449426	Fipronil Sulfide	83.2	111	P/P	41 - 127
2449426	Fipronil Sulfone	74.2	111	P/P	35 - 133
2449426	Fluazifop-P-butyl	70.9	100	P/P	46 - 131
2449426	Fludioxonil	45.1	56.6	F/P	51 - 124
2449426	Flumioxazin	103	127	P/P	10 - 289
2449426	Flutolanil	97.2	90.0	P/P	34 - 130
2449426	Fluxapyroxad	152	77.9	P/P	10 - 197
2449426	Fonofos	109	97.6	P/P	42 - 131
2449426	Hexabromobenzene	79.0	83.7	P/P	47 - 178
2449426	Hexazinone	108	99.4	P/P	64 - 125
2449426	Imazalil	117	131	P/P	37 - 252
2449426	Iprodione	165	107	P/P	34 - 265
2449426	Loratadine	197	214	P/P	20 - 231
2449426	Malathion	122	108	P/P	34 - 164
2449426	Metalaxyl	75.8	97.1	P/P	49 - 125
2449426	Metolachlor	116	115	P/P	54 - 125
2449426	Metribuzin	92.0	89.6	P/P	51 - 139
2449426	Mevinphos	94.9	100	P/P	46 - 130
2449426	Molinate	75.0	66.3	P/P	39 - 93.0
2449426	Myclobutanil	73.8	96.5	P/P	50 - 130
2449426	Naled	24.9	28.7	P/P	10 - 150
2449426	Napropamide	75.1	96.9	P/P	10 - 109
2449426	Norflurazon	94.9	91.0	P/P	36 - 134
2449426	Octinoxate	116	121	P/P	18 - 170
2449426	Oxadiazon	71.6	90.1	P/P	43 - 112
2449426	Oxybenzone	119	130	P/P	33 - 154
2449426	Oxyfluorfen	89.4	129	P/P	62 - 154

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P437464

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2449426	Parathion Ethyl	99.6	109	P/P	65 - 120
2449426	Parathion Methyl	97.8	156	P/P	77 - 185
2449426	PBB-153	64.8	81.4	P/P	23 - 193
2449426	PBDE-47	101	109	P/P	31 - 139
2449426	PBDE-99	85.7	85.9	P/P	24 - 138
2449426	Pendimethalin	104	123	P/P	50 - 146
2449426	Pentabromotoluene	87.9	95.8	P/P	54 - 152
2449426	Phenytoin	34.2	43.5	P/P	10 - 157
2449426	Phorate	142	105	P/P	54 - 161
2449426	Prodiamine	47.6	61.8	P/P	29 - 160
2449426	Prometon	94.2	84.8	P/P	38 - 145
2449426	Prometryn	128	141	P/P	32 - 151
2449426	Pronamide	94.3	107	P/P	61 - 140
2449426	Propanil	68.6	85.4	P/P	50 - 147
2449426	Propargite	92.0	77.4	P/P	10 - 190
2449426	Propiconazole	128	94.1	P/P	30 - 146
2449426	Pyraflufen Ethyl	161	96.2	F/P	30 - 147
2449426	Pyridaben	43.9	84.0	P/P	15 - 195
2449426	Pyriproxyfen	101	53.8	P/P	31 - 218
2449426	Simazine	90.9	97.3	P/P	45 - 139
2449426	Stiropfos	54.3	52.7	P/P	10 - 134
2449426	Sulfentrazone	145	87.8	P/P	53 - 186
2449426	Tebuconazole	87.2	65.6	P/P	10 - 133
2449426	Terbufos	115	102	P/P	65 - 151
2449426	Terbutylazine	81.2	86.6	P/P	62 - 117
2449426	Tetradecachloro-m-terphenyl	95.2	112	P/P	10 - 260
2449426	Thiobencarb	77.2	81.8	P/P	48 - 122
2449426	Tri-o-cresyl Phosphate	111	122	P/P	32 - 151
2449426	Triadimefon	82.9	103	P/P	46 - 124
2449426	Tris(1-chloro-2-propyl) phosphate (TCPP)	123	111	P/P	51 - 154
2449426	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	103	99.0	P/P	59 - 147
2449426	Tris(2-chloroethyl) phosphate (TCEP)	105	99.5	P/P	65 - 156

Reference Method: EPA 8321B

Batch ID: P437555

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2449881	Acesulfame K	118	119	P/P	40 - 150
2449881	AMPA	68.2	75.0	P/P	40 - 160
2449881	Endothall	84.0	98.6	P/P	40 - 160
2449881	Glufosinate	88.2	87.5	P/P	40 - 160
2449881	Glyphosate	88.6	96.5	P/P	40 - 160
2449881	Sucralose	106	114	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P437576

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2449966	2,4-D	105	117	P/P	40 - 150
2449966	2,4,5-T	80.7	90.1	P/P	40 - 150
2449966	Acetaminophen	110	112	P/P	30 - 150
2449966	Acetamiprid	81.4	91.8	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P437576

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2449966	Afidopyropen	68.3	79.2	P/P	30 - 150
2449966	Bentazon	40.9	40.2	P/P	30 - 150
2449966	Benzovindiflupyr	86.2	88.7	P/P	40 - 150
2449966	Carbamazepine	64.0	65.5	P/P	40 - 150
2449966	Clothianidin	105	109	P/P	40 - 150
2449966	Dinotefuran	107	112	P/P	40 - 150
2449966	Diuron	61.0	65.3	P/P	40 - 150
2449966	Fenuron	74.6	77.4	P/P	40 - 150
2449966	Fluridone	85.5	88.2	P/P	40 - 150
2449966	Hydrocodone	84.6	88.4	P/P	40 - 150
2449966	Ibuprofen	66.4	72.3	P/P	40 - 150
2449966	Imidacloprid	123	134	P/P	40 - 150
2449966	Linuron	69.8	73.9	P/P	40 - 150
2449966	Mandestrobin	93.1	99.6	P/P	40 - 150
2449966	MCP	88.6	94.9	P/P	40 - 150
2449966	Naproxen	71.8	73.4	P/P	40 - 150
2449966	Primidone	92.4	94.7	P/P	40 - 150
2449966	Pyraclostrobin	84.7	87.2	P/P	40 - 150
2449966	Silvex	93.1	96.0	P/P	40 - 150
2449966	Thiamethoxam	102	105	P/P	40 - 150
2449966	Tolfenpyrad	57.7	61.1	P/P	30 - 150
2449966	Triclopyr	87.7	91.7	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P437919

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2449973	Fluoride	102	101	P/P	94 - 106

Reference Method: SM 5310 B-2011

Batch ID: P437785

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2449462	Organic Carbon	98.1	98.4	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P437588

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2449762	Turbidity	3.62	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437937

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2449657	Chloride	1.55	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437941

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2449657	Sulfate	1.86	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P437984

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2449890	Ammonia-N	0.798	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P437563

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2449846	Kjeldahl Nitrogen	9.07	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437975

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2449493	NO2NO3-N	3.11	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P437713

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2449709	Total-P	1.67	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P437464

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2449426	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	11.7	Spike	P	0 - 30
2449426	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	27.3	Spike	P	0 - 35

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P437464

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2449426	Acetochlor	21.3	Spike	P	0 - 28
2449426	Alachlor	4.03	Spike	P	0 - 30
2449426	Ametryn	11.9	Spike	P	0 - 32
2449426	Atrazine	0.893	Spike	P	0 - 33
2449426	Atrazine Desethyl	7.37	Spike	P	0 - 36
2449426	Avobenzone	14.0	Spike	P	0 - 35
2449426	Azinphos Methyl	2.31	Spike	P	0 - 62
2449426	Azoxystrobin	28.8	Spike	P	0 - 39
2449426	Bromacil	25.4	Spike	P	0 - 33
2449426	Butylate	7.49	Spike	P	0 - 51
2449426	Caffeine	0.207	Spike	P	0 - 100
2449426	Carbophenothion	15.2	Spike	P	0 - 34
2449426	Carfentrazone Ethyl	19.8	Spike	P	0 - 33
2449426	Chlorfenapyr	20.2	Spike	P	0 - 28
2449426	Chlorpyrifos Ethyl	9.54	Spike	P	0 - 31
2449426	Chlorpyrifos Methyl	15.5	Spike	P	0 - 27
2449426	Coumaphos	49.8	Spike	P	0 - 62
2449426	Cyanazine	9.13	Spike	P	0 - 48
2449426	Cyprodinil	16.2	Spike	P	0 - 29
2449426	Dechlorane 602	3.33	Spike	P	0 - 60
2449426	Dechlorane 603	9.95	Spike	P	0 - 40
2449426	Dechlorane Plus	7.44	Spike	P	0 - 38
2449426	Demeton	9.93	Spike	P	0 - 33
2449426	Diazinon	13.3	Spike	P	0 - 32
2449426	Difenoconazole	25.8	Spike	P	0 - 71
2449426	Dimethenamid	22.4	Spike	P	0 - 60
2449426	Dimethomorph	15.2	Spike	P	0 - 61
2449426	Disulfoton	10.7	Spike	P	0 - 30
2449426	Dithiopyr	36.3	Spike	F	0 - 28
2449426	EPTC	0.740	Spike	P	0 - 56
2449426	Ethion	26.5	Spike	P	0 - 79
2449426	Ethoprop	13.1	Spike	P	0 - 31
2449426	Etridiazole	16.3	Spike	P	0 - 43
2449426	Fenamiphos	0.250	Spike	P	0 - 43
2449426	Fenbuconazole	34.8	Spike	P	0 - 79
2449426	Fipronil	37.9	Spike	P	0 - 46
2449426	Fipronil Desulfinyl	38.0	Spike	F	0 - 36
2449426	Fipronil Sulfide	28.6	Spike	P	0 - 34
2449426	Fipronil Sulfone	39.9	Spike	P	0 - 47
2449426	Fluazifop-P-butyl	34.1	Spike	P	0 - 38
2449426	Fludioxonil	15.2	Spike	P	0 - 29
2449426	Flumioxazin	20.7	Spike	P	0 - 63
2449426	Flutolanil	7.63	Spike	P	0 - 36
2449426	Fluxapyroxad	64.7	Spike	P	0 - 65
2449426	Fonofos	11.1	Spike	P	0 - 35
2449426	Hexabromobenzene	5.86	Spike	P	0 - 41
2449426	Hexazinone	7.95	Spike	P	0 - 31
2449426	Imazalil	11.1	Spike	P	0 - 52
2449426	Iprodione	43.1	Spike	P	0 - 49
2449426	Loratadine	8.32	Spike	P	0 - 59
2449426	Malathion	12.1	Spike	P	0 - 77

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P437464

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2449426	Metalaxyl	24.5	Spike	P	0 - 76
2449426	Metolachlor	1.59	Spike	P	0 - 29
2449426	Metribuzin	2.63	Spike	P	0 - 51
2449426	Mevinphos	5.23	Spike	P	0 - 31
2449426	Molinate	12.4	Spike	P	0 - 39
2449426	Myclobutanil	26.7	Spike	P	0 - 34
2449426	Naled	14.2	Spike	P	0 - 37
2449426	Napropamide	25.4	Spike	P	0 - 100
2449426	Norflurazon	4.16	Spike	P	0 - 54
2449426	Octinoxate	3.90	Spike	P	0 - 35
2449426	Oxadiazon	22.9	Spike	P	0 - 34
2449426	Oxybenzone	8.59	Spike	P	0 - 35
2449426	Oxyfluorfen	36.3	Spike	F	0 - 28
2449426	Parathion Ethyl	9.20	Spike	P	0 - 31
2449426	Parathion Methyl	45.7	Spike	F	0 - 29
2449426	PBB-153	22.6	Spike	P	0 - 49
2449426	PBDE-47	8.18	Spike	P	0 - 36
2449426	PBDE-99	0.204	Spike	P	0 - 46
2449426	Pendimethalin	16.9	Spike	P	0 - 31
2449426	Pentabromotoluene	8.60	Spike	P	0 - 16
2449426	Phenytoin	24.0	Spike	P	0 - 100
2449426	Phorate	29.9	Spike	P	0 - 36
2449426	Prodiamine	26.0	Spike	P	0 - 68
2449426	Prometon	10.5	Spike	P	0 - 35
2449426	Prometryn	10.0	Spike	P	0 - 33
2449426	Pronamide	12.8	Spike	P	0 - 24
2449426	Propanil	21.8	Spike	P	0 - 28
2449426	Propargite	17.2	Spike	P	0 - 53
2449426	Propiconazole	30.7	Spike	P	0 - 44
2449426	Pyraflufen Ethyl	50.7	Spike	P	0 - 61
2449426	Pyridaben	33.9	Spike	P	0 - 43
2449426	Pyriproxyfen	60.8	Spike	P	0 - 82
2449426	Simazine	6.80	Spike	P	0 - 29
2449426	Stirophos	2.84	Spike	P	0 - 100
2449426	Sulfentrazone	49.0	Spike	P	0 - 64
2449426	Tebuconazole	28.2	Spike	P	0 - 76
2449426	Terbufos	11.8	Spike	P	0 - 29
2449426	Terbuthylazine	6.45	Spike	P	0 - 28
2449426	Tetradecachloro-m-terphenyl	16.2	Spike	P	0 - 42
2449426	Thiobencarb	5.77	Spike	P	0 - 26
2449426	Tri-o-cresyl Phosphate	9.31	Spike	P	0 - 24
2449426	Triadimefon	21.9	Spike	P	0 - 40
2449426	Tris(1-chloro-2-propyl) phosphate (TCPP)	10.1	Spike	P	0 - 30
2449426	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	3.93	Spike	P	0 - 22
2449426	Tris(2-chloroethyl) phosphate (TCEP)	5.08	Spike	P	0 - 15

Reference Method: EPA 8321B

Batch ID: P437555

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P437555

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2449881	Acesulfame K	0.668	Spike	P	0 - 30
2449881	AMPA	8.78	Spike	P	0 - 30
2449881	Endothall	16.0	Spike	P	0 - 30
2449881	Glufosinate	0.823	Spike	P	0 - 30
2449881	Glyphosate	8.19	Spike	P	0 - 30
2449881	Sucralose	7.76	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P437576

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2449966	2,4-D	10.7	Spike	P	0 - 30
2449966	2,4,5-T	11.0	Spike	P	0 - 30
2449966	Acetaminophen	2.15	Spike	P	0 - 30
2449966	Acetamiprid	12.0	Spike	P	0 - 30
2449966	Afidopyropen	14.8	Spike	P	0 - 30
2449966	Bentazon	1.79	Spike	P	0 - 30
2449966	Benzovindiflupyr	2.95	Spike	P	0 - 30
2449966	Carbamazepine	2.42	Spike	P	0 - 30
2449966	Clothianidin	3.46	Spike	P	0 - 30
2449966	Dinotefuran	4.98	Spike	P	0 - 30
2449966	Diuron	6.74	Spike	P	0 - 30
2449966	Fenuron	3.71	Spike	P	0 - 30
2449966	Fluridone	3.06	Spike	P	0 - 30
2449966	Hydrocodone	4.31	Spike	P	0 - 30
2449966	Ibuprofen	8.52	Spike	P	0 - 30
2449966	Imazapyr	0.603	Spike	P	0 - 30
2449966	Imidacloprid	8.58	Spike	P	0 - 30
2449966	Linuron	5.62	Spike	P	0 - 30
2449966	Mandestrobin	6.65	Spike	P	0 - 30
2449966	MCPP	6.81	Spike	P	0 - 30
2449966	Naproxen	2.13	Spike	P	0 - 30
2449966	Primidone	2.52	Spike	P	0 - 30
2449966	Pyraclostrobin	2.97	Spike	P	0 - 30
2449966	Silvex	3.13	Spike	P	0 - 30
2449966	Thiamethoxam	2.97	Spike	P	0 - 30
2449966	Tolfenpyrad	5.64	Spike	P	0 - 30
2449966	Triclopyr	4.40	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P437916

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2449973	Total Alkalinity	0.00966	Sample	P	0 - 3.9

Quality Assurance Report Precision

Reference Method: SM 2540 C-2015
Batch ID: P438106

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2449420	TDS	6.99	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P437919

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2449973	Fluoride	0.467	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P437785

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2449462	Organic Carbon	0.168	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2449909
Field Sample ID: G2NE1222

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	72.3	P	20 - 200
EPA 8270E	Simazine-d10	102	P	58 - 137
EPA 8270E	Terbufos-d10	90.9	P	50 - 134
EPA 8270E	Terphenyl-d14	111	P	44 - 134

Lab Sample ID: 2449910
Field Sample ID: 20030688

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	69.0	P	30 - 160
EPA 8321B	Acetaminophen-d4	62.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	43.8	P	30 - 160
EPA 8321B	Diuron-d6	36.8	P	30 - 160
EPA 8321B	Endothall-d6	114	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	92.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	62.1	P	30 - 160
EPA 8321B	Primidone-d5	43.8	P	30 - 160
EPA 8321B	Sucralose-d6	103	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A122607
Included Lab Sample IDs: 2449910

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	72.4	80.1	P/P	60 - 160
Endothall	90.0	91.2	P/P	60 - 160
Glufosinate	88.9	83.3	P/P	60 - 160
Glyphosate	85.6	85.1	P/P	60 - 160

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A122634
Included Lab Sample IDs: 2449889

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	100	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1
Run ID: A122635
Included Lab Sample IDs: 2449889

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.4	99.1	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A122684
Included Lab Sample IDs: 2449910

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	115	127	P/P	60 - 160
Sucralose	105	114	P/P	60 - 160

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A122697
Included Lab Sample IDs: 2449890

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.6	99.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A122714
Included Lab Sample IDs: 2449890

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.4	98.9	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A122724
Included Lab Sample IDs: 2449890

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.5	96.4	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A122727
Included Lab Sample IDs: 2449910

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	93.2	90.2	P/P	50 - 150
2,4,5-T	93.4	88.1	P/P	50 - 150
Acetaminophen	107	108	P/P	60 - 160
Acetamiprid	109	109	P/P	50 - 150
Afidopyropen	98.6	105	P/P	50 - 150
Bentazon	94.0	89.8	P/P	50 - 160
Benzovindiflupyr	105	107	P/P	50 - 150
Carbamazepine	104	102	P/P	60 - 150
Clothianidin	109	111	P/P	60 - 150
Dinotefuran	110	113	P/P	50 - 150
Diuron	107	99.7	P/P	60 - 160
Fenuron	106	105	P/P	60 - 150
Fluridone	110	112	P/P	60 - 160
Hydrocodone	112	112	P/P	60 - 150
Ibuprofen	99.5	98.1	P/P	50 - 160
Imazapyr	89.5	91.9	P/P	50 - 150
Imidacloprid	102	103	P/P	60 - 150
Linuron	90.8	94.2	P/P	60 - 150
Mandestrobin	110	111	P/P	50 - 150
MCPP	94.2	93.6	P/P	50 - 150
Naproxen	95.9	87.4	P/P	50 - 160
Primidone	99.8	92.4	P/P	60 - 150
Pyraclostrobin	105	106	P/P	60 - 150
Silvex	91.2	95.8	P/P	50 - 150
Thiamethoxam	111	113	P/P	50 - 150
Tolfenpyrad	97.7	99.1	P/P	60 - 150
Triclopyr	93.3	91.9	P/P	50 - 150

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A122736
Included Lab Sample IDs: 2449889

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	104	104	P/P	90 - 110
Sulfate	104	105	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A122774
Included Lab Sample IDs: 2449889

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	102	97.9	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A122774
Included Lab Sample IDs: 2449889

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	103	102	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A122800

Included Lab Sample IDs: 2449890

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A122806

Included Lab Sample IDs: 2449890

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.0	99.4	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A122821

Included Lab Sample IDs: 2449909

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	93.6		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	92.9		P	80 - 120
Avobenzone	97.5		P	80 - 120
Dechlorane 602	97.2		P	80 - 120
Dechlorane 603	98.8		P	80 - 120
Dechlorane Plus	103		P	80 - 120
Hexabromobenzene	89.0		P	80 - 120
Octinoxate	92.7		P	80 - 120
Oxybenzone	95.8		P	80 - 120
PBB-153	90.2		P	80 - 120
PBDE-47	90.6		P	80 - 120
PBDE-99	93.5		P	80 - 120
Pentabromotoluene	93.5		P	80 - 120
Tetradecachloro-m-terphenyl	98.3		P	80 - 120
Tri-o-cresyl Phosphate	93.1		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	90.0		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	93.1		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	84.4		P	80 - 120

Reference Method: EPA 8270E

Run ID: A122923

Included Lab Sample IDs: 2449909

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	87.4		P	80 - 120
Alachlor	83.1		P	80 - 120
Ametryn	96.6		P	80 - 120
Atrazine	95.6		P	80 - 120
Atrazine Desethyl	103		P	80 - 120
Azinphos Methyl	157*		F	80 - 120
Azoxystrobin	102		P	80 - 120
Bromacil	99.9		P	80 - 120
Butylate	103		P	80 - 120
Caffeine	107		P	80 - 120
Carbophenothion	91.9		P	80 - 120
Carfentrazone Ethyl	91.2		P	80 - 120
Chlorfenapyr	91.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122923
Included Lab Sample IDs: 2449909

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlorpyrifos Ethyl	89.8		P	80 - 120
Chlorpyrifos Methyl	94.7		P	80 - 120
Coumaphos	110		P	80 - 120
Cyanazine	102		P	80 - 120
Cyprodinil	93.8		P	80 - 120
Demeton	95.4		P	80 - 120
Diazinon	98.2		P	80 - 120
Difenoconazole	90.6		P	80 - 120
Dimethenamid	94.9		P	80 - 120
Dimethomorph	89.4		P	80 - 120
Disulfoton	96.4		P	80 - 120
Dithiopyr	91.5		P	80 - 120
EPTC	100		P	80 - 120
Ethion	88.8		P	80 - 120
Ethoprop	96.4		P	80 - 120
Etridiazole	93.4		P	80 - 120
Fenamiphos	92.4		P	80 - 120
Fenbuconazole	88.6		P	80 - 120
Fipronil	86.8		P	80 - 120
Fipronil Desulfinyl	95.3		P	80 - 120
Fipronil Sulfide	94.1		P	80 - 120
Fipronil Sulfone	115		P	80 - 120
Fluazifop-P-butyl	99.3		P	80 - 120
Fludioxonil	107		P	80 - 120
Flumioxazin	102		P	80 - 120
Flutolanil	107		P	80 - 120
Fluxapyroxad	82.7		P	80 - 120
Fonofos	94.7		P	80 - 120
Hexazinone	102		P	80 - 120
Imazalil	108		P	80 - 120
Iprodione	90.3		P	80 - 120
Loratadine	94.9		P	80 - 120
Malathion	89.7		P	80 - 120
Metaxyl	93.8		P	80 - 120
Metolachlor	105		P	80 - 120
Metribuzin	94.2		P	80 - 120
Mevinphos	97.3		P	80 - 120
Molinate	89.8		P	80 - 120
Myclobutanil	88.5		P	80 - 120
Naled	103		P	80 - 120
Napropamide	102		P	80 - 120
Norflurazon	101		P	80 - 120
Oxadiazon	98.8		P	80 - 120
Oxyfluorfen	102		P	80 - 120
Parathion Ethyl	95.6		P	80 - 120
Parathion Methyl	92.2		P	80 - 120
Pendimethalin	103		P	80 - 120
Phenytol	110		P	80 - 120
Phorate	94.7		P	80 - 120
Prodiamine	106		P	80 - 120
Prometon	98.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122923
Included Lab Sample IDs: 2449909

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Prometryn	102		P	80 - 120
Pronamide	95.1		P	80 - 120
Propanil	107		P	80 - 120
Propargite	97.6		P	80 - 120
Propiconazole	90.3		P	80 - 120
Pyraflufen Ethyl	99.7		P	80 - 120
Pyridaben	101		P	80 - 120
Pyriproxyfen	173*		F	80 - 120
Simazine	92.3		P	80 - 120
Stirophos	83.5		P	80 - 120
Sulfentrazone	90.1		P	80 - 120
Tebuconazole	93.4		P	80 - 120
Terbufos	98.7		P	80 - 120
Terbutylazine	86.1		P	80 - 120
Thiobencarb	100		P	80 - 120
Triadimefon	103		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	98.4					
EPA 180.1 Rev. 2.0	Turbidity	104				3.62	
EPA 300.0 Rev. 2.1	Chloride	108	106	106		1.55	
	Sulfate	108	107	107		1.86	
EPA 350.1 Rev. 2.0	Ammonia-N	99.6	97.6	98.8			0.798
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	97.6	114	99.8			9.07
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	102	100				3.11
EPA 365.1 Rev. 2.0	Total-P	100	104	106			1.67
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntylphenol (UV-328)	72.7	84.3	73.1			11.7
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	63.6	63.9	84.2			27.3
	Acetochlor	77.8	72.5	89.7			21.3
	Alachlor	86.6	68.7	71.5			4.03
	Ametryn	124	102	114			11.9
	Atrazine	97.7	84.5	85.9			0.893
	Atrazine Desethyl	103	95.9	87.9			7.37
	Avobenzone	158	124	142			14.0
	Azinphos Methyl	33.4	133	130			2.31
	Azoxystrobin	145	100	134			28.8
	Bromacil	80.9	70.6	91.2			25.4
	Butylate	68.6	69.3	64.3			7.49
	Caffeine	112	116	117			0.207
	Carbophenothion	118	131	112			15.2
	Carfentrazone Ethyl	123	143	118			19.8
	Chlorfenapyr	87.9	76.3	93.5			20.2
	Chlorpyrifos Ethyl	112	108	97.8			9.54
	Chlorpyrifos Methyl	120	125	146			15.5
	Coumaphos	148	91.7	153			49.8
	Cyanazine	159	146	160			9.13
	Cyprodinil	132	131	111			16.2
	Dechlorane 602	112	97.4	94.2			3.33
	Dechlorane 603	67.2	80.8	89.2			9.95
	Dechlorane Plus	96.1	79.8	85.9			7.44
	Demeton	86.7	96.3	87.2			9.93
	Diazinon	80.6	93.7	107			13.3
	Difenoconazole	60.7	72.1	93.4			25.8
	Dimethenamid	73.9	73.3	91.8			22.4
	Dimethomorph	230	194	225			15.2
	Disulfoton	108	99.8	111			10.7
	Dithiopyr	88.2	69.5	100			36.3
	EPTC	62.0	56.4	56.8			0.740
	Ethion	33.1	53.6	70.0			26.5
	Ethoprop	98.4	109	95.7			13.1
	Etridiazole	78.3	57.1	67.2			16.3
	Fenamiphos	125	104	104			0.250
	Fenbuconazole	104	66.7	94.7			34.8
	Fipronil	82.0	71.5	105			37.9
	Fipronil Desulfinyl	89.7	72.5	107			38.0
	Fipronil Sulfide	96.0	83.2	111			28.6
	Fipronil Sulfone	97.6	74.2	111			39.9
	Fluazifop-P-butyl	82.3	70.9	100			34.1
	Fludioxonil	89.6	45.1	56.6			15.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Flumioxazin	61.1	103	127		20.7
	Flutolanil	97.4	97.2	90.0		7.63
	Fluxapyroxad	62.4	152	77.9		64.7
	Fonofos	115	109	97.6		11.1
	Hexabromobenzene	64.3	79.0	83.7		5.86
	Hexazinone	92.9	108	99.4		7.95
	Imazalil	118	117	131		11.1
	Iprodione	90.5	165	107		43.1
	Loratadine	231	197	214		8.32
	Malathion	113	122	108		12.1
	Metalaxyl	86.0	75.8	97.1		24.5
	Metolachlor	104	116	115		1.59
	Metribuzin	102	92.0	89.6		2.63
	Mevinphos	108	94.9	100		5.23
	Molinate	66.4	75.0	66.3		12.4
	Myclobutanil	93.1	73.8	96.5		26.7
	Naled	47.0	24.9	28.7		14.2
	Napropamide	65.6	75.1	96.9		25.4
	Norflurazon	85.6	94.9	91.0		4.16
	Octinoxate	110	121	116		3.90
	Oxadiazon	91.5	71.6	90.1		22.9
	Oxybenzone	121	130	119		8.59
	Oxyfluorfen	118	89.4	129		36.3
	Parathion Ethyl	101	99.6	109		9.20
	Parathion Methyl	124	97.8	156		45.7
	PBB-153	37.1	64.8	81.4		22.6
	PBDE-47	85.3	101	109		8.18
	PBDE-99	92.3	85.7	85.9		0.204
	Pendimethalin	115	104	123		16.9
	Pentabromotoluene	78.3	87.9	95.8		8.60
	Phenytol	20.4	34.2	43.5		24.0
	Phorate	101	142	105		29.9
	Prodiamine	47.7	47.6	61.8		26.0
	Prometon	109	94.2	84.8		10.5
	Prometryn	123	128	141		10.0
	Pronamide	109	94.3	107		12.8
	Propanil	81.5	68.6	85.4		21.8
	Propargite	53.8	92.0	77.4		17.2
	Propiconazole	88.7	128	94.1		30.7
	Pyraflufen Ethyl	97.6	161	96.2		50.7
	Pyridaben	136	43.9	84.0		33.9
	Pyriproxyfen	24.2	101	53.8		60.8
	Simazine	99.9	90.9	97.3		6.80
	Stirophos	53.1	54.3	52.7		2.84
	Sulfentrazone	35.4	145	87.8		49.0
	Tebuconazole	40.7	87.2	65.6		28.2
	Terbufos	123	115	102		11.8
	Terbuthylazine	104	81.2	86.6		6.45
	Tetradecachloro-m-terphenyl	135	95.2	112		16.2
	Thiobencarb	87.2	77.2	81.8		5.77
	Tri-o-cresyl Phosphate	105	111	122		9.31
	Triadimefon	87.6	82.9	103		21.9
	Tris(1-chloro-2-propyl) phosphate (TCPP)	165	123	111		10.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8270E	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	137	103	99.0		3.93
	Tris(2-chloroethyl) phosphate (TCEP)	137	105	99.5		5.08
EPA 8321B	2,4-D	95.5	105	117		10.7
	2,4,5-T	82.6	80.7	90.1		11.0
	Acesulfame K	103	118	119		0.668
	Acetaminophen	86.9	110	112		2.15
	Acetamiprid	84.9	81.4	91.8		12.0
	Afidopyropen	36.6	68.3	79.2		14.8
	AMPA	68.3	68.2	75.0		8.78
	Bentazon	69.4	40.9	40.2		1.79
	Benzovindiflupyr	82.8	86.2	88.7		2.95
	Carbamazepine	70.1	64.0	65.5		2.42
	Clothianidin	90.9	105	109		3.46
	Dinotefuran	100	107	112		4.98
	Diuron	68.6	61.0	65.3		6.74
	Endothall	90.8	84.0	98.6		16.0
	Fenuron	92.0	74.6	77.4		3.71
	Fluridone	87.1	85.5	88.2		3.06
	Glufosinate	89.3	88.2	87.5		0.823
	Glyphosate	95.5	88.6	96.5		8.19
	Hydrocodone	94.5	84.6	88.4		4.31
	Ibuprofen	64.6	66.4	72.3		8.52
	Imazapyr	88.2				0.603
	Imidacloprid	89.8	123	134		8.58
	Linuron	75.6	69.8	73.9		5.62
	Mandestrobin	90.7	93.1	99.6		6.65
	MCPP	81.9	88.6	94.9		6.81
	Naproxen	60.5	71.8	73.4		2.13
	Primidone	84.4	92.4	94.7		2.52
	Pyraclostrobin	82.3	84.7	87.2		2.97
	Silvex	81.9	93.1	96.0		3.13
	Sucralose	100	106	114		7.76
	Thiamethoxam	89.4	102	105		2.97
	Tolfenpyrad	51.7	57.7	61.1		5.64
	Triclopyr	75.4	87.7	91.7		4.40
SM 2320 B-2011	Total Alkalinity	101			0.0096	
SM 2540 C-2015	TDS	94.0			6.99	
SM 2540 D-2015	TSS	102				
SM 4500-F- C-2011	Fluoride	103	102	101		0.467
SM 5310 B-2011	Organic Carbon	95.6	98.1	98.4		0.168

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2449889
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2449889
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2449889
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2449889
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2449890
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2449890
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2449890

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2449890
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2449909
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2449909
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2449910
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2449889
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2449889
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2449889
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2449889
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2449890

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	11/08/2023			11/08/2023 15:33	Anna M. Plaviak	2449889
EPA 180.1 Rev. 2.0	11/08/2023			11/08/2023 14:13	Samantha L Bates	2449889
EPA 300.0 Rev. 2.1	11/08/2023			11/16/2023 09:17	James L Waggeberby	2449889
EPA 350.1 Rev. 2.0	11/08/2023			11/17/2023 14:58	Khloe J Berg	2449890
EPA 351.2 Rev. 2.0	11/08/2023	11/09/2023 11:24	Simonne.V. Calhoun	11/13/2023 15:24	Samantha L Bates	2449890
EPA 353.2 Rev. 2.0	11/08/2023			11/17/2023 12:10	Fadila Guebre	2449890
EPA 365.1 Rev. 2.0	11/08/2023	11/14/2023 15:38	Adam P Silver	11/14/2023 19:20	James L Waggeberby	2449890
EPA 8270E	11/08/2023	11/11/2023 08:00	Fe-Val Siddell	11/16/2023 20:26	Arthur Maknenko	2449909
	11/08/2023	11/11/2023 08:00	Fe-Val Siddell	11/16/2023 21:53	Vandana T. Nagar	2449909
EPA 8321B	11/08/2023	11/08/2023 16:00	Hana Lee	11/08/2023 23:03	Tae K Lee	2449910
	11/08/2023	11/08/2023 16:00	Hana Lee	11/09/2023 19:12	Tae K Lee	2449910
	11/08/2023	11/13/2023 09:00	Hoor Shaik	11/14/2023 21:53	Juyoung Kim	2449910
SM 2320 B-2011	11/08/2023			11/16/2023 01:02	Dale L. Simmons	2449889
SM 2540 C-2015	11/08/2023			11/09/2023 13:42	Yijie Li	2449889
SM 2540 D-2015	11/08/2023			11/09/2023 13:42	Yijie Li	2449889
SM 4500-F- C-2011	11/08/2023			11/16/2023 01:02	Dale L. Simmons	2449889
SM 5310 B-2011	11/08/2023			11/13/2023 21:10	Khloe J Berg	2449890