

Chemical Analysis Report

SE-DIST-2022-08-10-01

Florida Department of Environmental Protection
Central Laboratory
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Tallahassee, FL 32399-2400
DOH Accreditation E31780

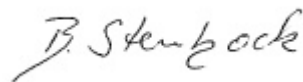
Event Description: **SE Okeechobee**
Request ID: **RQ-2022-08-08-27**
Customer: **SE-DIST**
Project ID: **SMP**

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

Date Certified: 31-AUG-2022 17:07



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: SFWMD C2444 @ Bean City

Collection Date/Time: 08/09/2022 10:45

Field ID: G5SE0029

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2347822	DEP SOP: NU-094-1	Color (true)	70	A	PCU	P417920	
	EPA 180.1 Rev. 2.0	Turbidity	3.5		NTU	P417930	
	EPA 300.0 Rev. 2.1	Chloride	55		mg Cl/L	P418211	
		Sulfate	27		mg SO4/L	P418214	
	SM 2320 B-2011	Total Alkalinity	133		mg CaCO3/L	P418288	
	SM 2540 C-2011	TDS	289		mg/L	P418393	
	SM 2540 D-2011	TSS	4	I	mg/L	P418319	
	SM 4500-F- C-2011	Fluoride	0.21		mg F/L	P418594	
2347823	EPA 350.1 Rev. 2.0	Ammonia-N	0.075		mg N/L	P418166	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P418182	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.020		mg N/L	P418108	
	EPA 365.1 Rev. 2.0	Total-P	0.062		mg P/L	P417992	
	SM 5310 B-2011	Organic Carbon	17		mg C/L	P418225	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

SM 4500-F- C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: West Palm Beach Canal @ Twenty-mile Bend Collection Date/Time: 08/09/2022 11:35

Field ID: G5SE0058

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2347827	EPA 8270E	Aldrin	0.67	U	ng/L	P418171	LCS, MS
		Alpha-BHC	0.10	UJ	ng/L	P418171	
		Alpha-Chlordane	0.21	U	ng/L	P418171	
		PCB-1016	2.1	U	ng/L	P418171	
		Beta-BHC	0.10	U	ng/L	P418171	
		PCB-1221	2.1	U	ng/L	P418171	
		Beta-Cyfluthrin	1.3	U	ng/L	P418171	
		PCB-1232	2.1	U	ng/L	P418171	
		Bifenthrin	0.52	U	ng/L	P418171	
		PCB-1242	2.1	U	ng/L	P418171	
		Carbophenothion	0.93	U	ng/L	P418171	
		PCB-1248	2.1	U	ng/L	P418171	
		Chlorothalonil	1.3	U	ng/L	P418171	
		PCB-1254	2.1	U	ng/L	P418171	
		Cis-Nonachlor	0.21	U	ng/L	P418171	
		PCB-1260	2.1	U	ng/L	P418171	
		Cypermethrin	1.5	U	ng/L	P418171	
		Dacthal	0.15	U	ng/L	P418171	
		DDD-p,p'	0.29	I	ng/L	P418171	
		DDE-p,p'	0.21	U	ng/L	P418171	
		DDT-p,p'	0.28	I	ng/L	P418171	
		Delta-BHC	0.41	U	ng/L	P418171	
		Deltamethrin	1.3	U	ng/L	P418171	
		Dichlobenil	0.26	U	ng/L	P418171	
		Dicofol	1.3	U	ng/L	P418171	
		Dieldrin	0.41	U	ng/L	P418171	
		Endosulfan I	0.41	U	ng/L	P418171	
		Endosulfan II	0.41	U	ng/L	P418171	
		Endosulfan Sulfate	0.31	U	ng/L	P418171	
		Endrin	0.41	U	ng/L	P418171	
		Endrin Aldehyde	0.77	U	ng/L	P418171	
		Endrin Ketone	0.41	U	ng/L	P418171	
		Esfenvalerate	0.77	U	ng/L	P418171	
		Ethalfuralin	0.15	U	ng/L	P418171	
		Fenpropathrin	0.26	U	ng/L	P418171	
		Gamma-BHC	0.13	U	ng/L	P418171	
		Gamma-Chlordane	0.21	U	ng/L	P418171	
		Heptachlor	0.21	U	ng/L	P418171	
		Heptachlor Epoxide	0.26	U	ng/L	P418171	
		Hexachlorobenzene**	1.0	U	ng/L	P418171	
		Kepone	5.2	UJ	ng/L	P418171	CCV
		Lambda-Cyhalothrin	0.77	U	ng/L	P418171	
		Methoprene	0.77	U	ng/L	P418171	
		Methoxychlor	0.31	UJ	ng/L	P418171	CCV

Field ID: G5SE0058

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2347827	EPA 8270E	MGK-264	0.21	U	ng/L	P418171	
		Mirex	0.36	U	ng/L	P418171	
		Oxychlordane	0.31	U	ng/L	P418171	
		Permethrin	1.6	U	ng/L	P418171	
		Phenothrin	0.93	U	ng/L	P418171	
		Piperonyl Butoxide	0.47	I	ng/L	P418171	
		Prallethrin	2.1	U	ng/L	P418171	
		Tau-Fluvalinate	0.26	U	ng/L	P418171	
		Tetramethrin	0.77	U	ng/L	P418171	
		Trans-Nonachlor	0.21	U	ng/L	P418171	
		Triclosan Methyl	0.15	U	ng/L	P418171	
		Trifluralin	0.21	U	ng/L	P418171	
	EPA 8276	Chlordane	2.6	U	ng/L	P418171	
		Toxaphene	15	U	ng/L	P418171	

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

Sample Location: WCA1 near culvert

Collection Date/Time: 08/09/2022 12:28

Field ID: G5SE0117

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2347829	EPA 8321B	2,4-D	0.0041	I	ug/L	P417988	
		Acesulfame K	0.10	U	ug/L	P417915	
		2,4,5-T	0.0040	U	ug/L	P417988	
		AMPA	0.10	U	ug/L	P417915	
		Acetaminophen	0.0080	U	ug/L	P417988	
		Acetamiprid	0.0020	U	ug/L	P417988	
		Endothall	0.25	U	ug/L	P417915	
		Glufosinate	0.10	U	ug/L	P417915	
		Glyphosate	0.10	U	ug/L	P417915	
		Afidopyropen	0.0020	U	ug/L	P417988	
		Bentazon	0.056		ug/L	P417988	
		Sucralose	0.055		ug/L	P417915	
		Benzovindiflupyr	0.0020	U	ug/L	P417988	
		Carbamazepine	8.0E-04	U	ug/L	P417988	
		Clothianidin	0.0020	U	ug/L	P417988	
		Dinotefuran	0.0020	U	ug/L	P417988	
		Diuron	0.0020	U	ug/L	P417988	
		Fenuron	0.032	U	ug/L	P417988	
		Fluridone	0.0035		ug/L	P417988	
		Imazapyr	0.098		ug/L	P417988	
		Hydrocodone	0.0020	U	ug/L	P417988	
		Ibuprofen	0.080	U	ug/L	P417988	
		Imidacloprid	0.0026	I	ug/L	P417988	MS
		Linuron	0.0040	U	ug/L	P417988	
		Mandestrobin	0.0020	U	ug/L	P417988	
		MCPP	0.0040	U	ug/L	P417988	
		Naproxen	0.0080	U	ug/L	P417988	
		Primidone	0.0040	U	ug/L	P417988	
		Pyraclostrobin	0.0020	U	ug/L	P417988	
		Silvex	0.0040	U	ug/L	P417988	
		Thiamethoxam	0.0020	U	ug/L	P417988	MS
		Tolfenpyrad	0.0020	U	ug/L	P417988	
		Triclopyr	0.0040	U	ug/L	P417988	

Sample Location: FB

Collection Date/Time: 08/09/2022 12:30

Field ID: FB_08092022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2347830	EPA 8321B	2,4-D	0.0020	U	ug/L	P417988	
		Acesulfame K	0.10	U	ug/L	P417915	
		2,4,5-T	0.0040	U	ug/L	P417988	
		AMPA	0.10	U	ug/L	P417915	
		Acetaminophen	0.0080	U	ug/L	P417988	
		Acetamiprid	0.0020	U	ug/L	P417988	
		Endothall	0.25	U	ug/L	P417915	
		Glufosinate	0.10	U	ug/L	P417915	
		Glyphosate	0.10	U	ug/L	P417915	
		Afidopyropen	0.0020	U	ug/L	P417988	
		Bentazon	8.0E-04	U	ug/L	P417988	
		Sucralose	0.010	U	ug/L	P417915	
		Benzovindiflupyr	0.0020	U	ug/L	P417988	
		Carbamazepine	8.0E-04	U	ug/L	P417988	
		Clothianidin	0.0020	U	ug/L	P417988	
		Dinotefuran	0.0020	U	ug/L	P417988	
		Diuron	0.0020	U	ug/L	P417988	
		Fenuron	0.032	U	ug/L	P417988	
		Fluridone	8.0E-04	U	ug/L	P417988	
		Imazapyr	0.0040	U	ug/L	P417988	
		Hydrocodone	0.0020	U	ug/L	P417988	
		Ibuprofen	0.080	U	ug/L	P417988	
		Imidacloprid	0.0020	U	ug/L	P417988	MS
		Linuron	0.0040	U	ug/L	P417988	
		Mandestrobin	0.0020	U	ug/L	P417988	
		MCPP	0.0040	U	ug/L	P417988	
		Naproxen	0.0080	U	ug/L	P417988	
		Primidone	0.0040	U	ug/L	P417988	
		Pyraclostrobin	0.0020	U	ug/L	P417988	
		Silvex	0.0040	U	ug/L	P417988	
		Thiamethoxam	0.0020	U	ug/L	P417988	MS
		Tolfenpyrad	0.0020	U	ug/L	P417988	
		Triclopyr	0.0040	U	ug/L	P417988	

Sample Location: Farm Canal @ Hwy 98 and SR 717

Collection Date/Time: 08/09/2022 10:00

Field ID: G5SE0091

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2347828	EPA 8270E	Aldrin	0.66	U	ng/L	P418171	LCS, MS
		Alpha-BHC	0.10	UJ	ng/L	P418171	
		Alpha-Chlordane	0.20	U	ng/L	P418171	
		PCB-1016	2.0	U	ng/L	P418171	
		Beta-BHC	0.92		ng/L	P418171	
		PCB-1221	2.0	U	ng/L	P418171	
		Beta-Cyfluthrin	1.3	U	ng/L	P418171	
		PCB-1232	2.0	U	ng/L	P418171	
		Bifenthrin	0.51	U	ng/L	P418171	
		PCB-1242	2.0	U	ng/L	P418171	
		Carbophenothion	0.92	U	ng/L	P418171	
		PCB-1248	2.0	U	ng/L	P418171	
		Chlorothalonil	1.3	U	ng/L	P418171	
		PCB-1254	2.0	U	ng/L	P418171	
		Cis-Nonachlor	0.22	I	ng/L	P418171	
		PCB-1260	2.0	U	ng/L	P418171	
		Cypermethrin	1.5	U	ng/L	P418171	
		Dacthal	0.15	U	ng/L	P418171	
		DDD-p,p'	0.25	U	ng/L	P418171	
		DDE-p,p'	0.24	I	ng/L	P418171	
		DDT-p,p'	0.32	I	ng/L	P418171	
		Delta-BHC	0.41	U	ng/L	P418171	
		Deltamethrin	1.5	I	ng/L	P418171	
		Dichlobenil	0.25	U	ng/L	P418171	
		Dicofol	1.3	U	ng/L	P418171	
		Dieldrin	0.41	U	ng/L	P418171	
		Endosulfan I	0.41	U	ng/L	P418171	
		Endosulfan II	0.41	U	ng/L	P418171	
		Endosulfan Sulfate	0.31	U	ng/L	P418171	
		Endrin	0.41	U	ng/L	P418171	
		Endrin Aldehyde	0.76	U	ng/L	P418171	
		Endrin Ketone	0.41	U	ng/L	P418171	
		Esfenvalerate	0.90	I	ng/L	P418171	
		Ethalfuralin	0.15	U	ng/L	P418171	
		Fenpropathrin	0.25	U	ng/L	P418171	
		Gamma-BHC	0.13	U	ng/L	P418171	
		Gamma-Chlordane	0.20	U	ng/L	P418171	
		Heptachlor	0.20	U	ng/L	P418171	
		Heptachlor Epoxide	0.25	U	ng/L	P418171	
		Hexachlorobenzene**	1.0	U	ng/L	P418171	
		Kepone	5.1	UJ	ng/L	P418171	CCV
		Lambda-Cyhalothrin	0.76	U	ng/L	P418171	
		Methoprene	0.76	U	ng/L	P418171	
		Methoxychlor	0.31	UJ	ng/L	P418171	CCV

Field ID: G5SE0091

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2347828	EPA 8270E	MGK-264	0.20	U	ng/L	P418171	CCV
		Mirex	0.36	U	ng/L	P418171	
		Oxychlordane	0.31	U	ng/L	P418171	
		Permethrin	1.6	U	ng/L	P418171	
		Phenothrin	0.92	U	ng/L	P418171	
		Piperonyl Butoxide	0.15	U	ng/L	P418171	
		Prallethrin	2.0	U	ng/L	P418171	
		Tau-Fluvalinate	0.25	U	ng/L	P418171	
		Tetramethrin	0.76	UJ	ng/L	P418171	
		Trans-Nonachlor	0.20	U	ng/L	P418171	
		Triclosan Methyl	0.15	U	ng/L	P418171	
		Trifluralin	0.20	U	ng/L	P418171	
	EPA 8276	Chlordane	12	I	ng/L	P418171	
		Toxaphene	15	U	ng/L	P418171	

Ref. Method and Comment:
EPA 8270E: 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: P417920

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P417930

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418211

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418214

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418166

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418182

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418108

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417992

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

Reference Method: EPA 8270E
Batch ID: P418171

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P418171

Component	Result	Code	Units
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Carbophenothion	0.90	U	ng/L
Carbophenothion	0.90	U	ng/L
Chlorothalonil	1.2	U	ng/L
Chlorothalonil	1.2	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P418171

Component	Result	Code	Units
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P418171

Component	Result	Code	Units
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276

Batch ID: P418171

Component	Result	Code	Units
Chlordane	2.5	U	ng/L
Chlordane	2.5	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: EPA 8321B

Batch ID: P417915

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: P417988

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	0.0040	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P417988

Component	Result	Code	Units
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: P418288

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

Reference Method: SM 2540 C-2011
Batch ID: P418393

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P418319

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P418594

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P418225

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: P417920

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P417930

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418211

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418214

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418166

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418182

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418108

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	97.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417992

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

Reference Method: EPA 8270E
Batch ID: P418171

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	38.6		P	10 - 92.0
Alpha-BHC	74.6		F	75 - 107
Alpha-Chlordane	55.6		P	50 - 108
Beta-BHC	95.4		P	36 - 138

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P418171

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Beta-Cyfluthrin	45.1		P	20 - 161
Bifenthrin	45.6		P	10 - 119
Carbophenothion	35.1		P	19 - 94.0
Chlorothalonil	104		P	26 - 186
Cis-Nonachlor	47.7		P	42 - 119
Cypermethrin	47.1		P	22 - 150
Dacthal	72.1		P	72 - 119
DDD-p,p'	56.3		P	45 - 107
DDE-p,p'	54.4		P	48 - 106
DDT-p,p'	59.9		P	48 - 110
Delta-BHC	102		P	54 - 140
Deltamethrin	57.6		P	22 - 189
Dichlobenil	64.2		P	36 - 117
Dicofol	72.0		P	46 - 155
Dieldrin	60.7		P	54 - 110
Endosulfan I	68.6		P	59 - 105
Endosulfan II	59.3		P	51 - 118
Endosulfan Sulfate	68.5		P	57 - 121
Endrin	59.5		P	10 - 120
Endrin Aldehyde	63.9		P	34 - 118
Endrin Ketone	73.7		P	69 - 177
Esfenvalerate	42.9		P	23 - 168
Ethalfuralin	61.6		P	49 - 99.0
Fenpropathrin	46.7		P	34 - 117
Gamma-BHC	83.4		P	72 - 117
Gamma-Chlordane	53.1		P	43 - 106
Heptachlor	53.4		P	41 - 98.0
Heptachlor Epoxide	64.0		P	57 - 106
Hexachlorobenzene	58.7		P	36 - 99.0
Kepone	110		P	16 - 215
Lambda-Cyhalothrin	35.9		P	21 - 177
Methoprene	30.3		P	10 - 119
Methoxychlor	101		P	60 - 112
MGK-264	63.2		P	26 - 122
Mirex	37.4		P	10 - 169
Oxychlordane	63.6		P	43 - 105
PCB-1016	91.3		P	48 - 112
PCB-1260	91.2		P	44 - 118
Permethrin	44.4		P	24 - 148
Phenothrin	25.5		P	10 - 106
Piperonyl Butoxide	85.4		P	10 - 139
Prallethrin	56.2		P	17 - 109
Tau-Fluvalinate	35.1		P	13 - 131
Tetramethrin	77.7		P	10 - 132
Trans-Nonachlor	51.8		P	44 - 106
Triclosan Methyl	62.6		P	59 - 109
Trifluralin	62.5		P	44 - 101

Reference Method: EPA 8276
Batch ID: P418171

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8276

Batch ID: P418171

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	94.3		P	61 - 116
Toxaphene	90.9		P	48 - 124

Reference Method: EPA 8321B

Batch ID: P417915

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	107		P	40 - 150
AMPA	94.7		P	40 - 150
Endothall	112		P	40 - 150
Glufosinate	105		P	40 - 150
Glyphosate	99.8		P	40 - 150
Sucralose	104		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P417988

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	87.5		P	40 - 150
2,4,5-T	82.5		P	40 - 150
Acetaminophen	94.0		P	30 - 150
Acetamiprid	92.1		P	40 - 150
Afidopyropen	86.6		P	30 - 150
Bentazon	104		P	30 - 150
Benzovindiflupyr	94.9		P	40 - 150
Carbamazepine	105		P	40 - 150
Clothianidin	114		P	40 - 150
Dinotefuran	108		P	40 - 150
Diuron	102		P	40 - 150
Fenuron	122		P	40 - 150
Fluridone	115		P	40 - 150
Hydrocodone	106		P	40 - 150
Ibuprofen	72.8		P	40 - 150
Imazapyr	104		P	40 - 150
Imidacloprid	86.8		P	40 - 150
Linuron	101		P	40 - 150
Mandestrobin	113		P	40 - 150
MCPP	95.7		P	40 - 150
Naproxen	104		P	40 - 150
Primidone	79.8		P	40 - 150
Pyraclostrobin	90.1		P	40 - 150
Silvex	76.4		P	40 - 150
Thiamethoxam	101		P	40 - 150
Tolfenpyrad	42.2		P	30 - 150
Triclopyr	79.6		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P418288

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.6		P	94 - 106

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P418594

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.7		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P418225

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418211

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2347680	Chloride	98.3		P	90 - 110
2347714	Chloride	98.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418214

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2347680	Sulfate	99.2		P	90 - 110
2347714	Sulfate	99.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418166

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2347681	Ammonia-N	101	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418182

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2347718	Kjeldahl Nitrogen	105	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418108

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2347716	NO2NO3-N	98.0	97.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417992

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2347716	Total-P	108	105	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P418171

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348185	PCB-1016	80.4	68.9	P/P	46 - 111
2348185	PCB-1260	78.7	69.6	P/P	45 - 114
2348248	Aldrin	47.3	51.5	P/P	20 - 82.0
2348248	Alpha-BHC	69.6	81.4	F/P	71 - 109
2348248	Alpha-Chlordane	42.9	45.5	P/P	42 - 106
2348248	Beta-BHC	99.7	110	P/P	69 - 180
2348248	Beta-Cyfluthrin	61.4	58.6	P/P	18 - 175
2348248	Bifenthrin	75.9	60.2	P/P	21 - 128
2348248	Carbophenothion	43.6	47.2	P/P	10 - 126
2348248	Chlorothalonil	166	190	P/P	10 - 300
2348248	Cis-Nonachlor	42.4	41.9	P/P	34 - 106
2348248	Cypermethrin	63.1	61.3	P/P	22 - 158
2348248	Dacthal	62.4	67.2	P/P	54 - 116
2348248	DDD-p,p'	44.2	43.2	P/P	34 - 107

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P418171

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348248	DDE-p,p'	39.3	40.2	P/P	33 - 110
2348248	DDT-p,p'	56.7	59.5	P/P	50 - 122
2348248	Delta-BHC	115	126	P/P	77 - 193
2348248	Deltamethrin	80.3	75.5	P/P	10 - 195
2348248	Dichlobenil	42.1	41.3	P/P	25 - 113
2348248	Dicofol	105	90.5	P/P	38 - 247
2348248	Dieldrin	47.1	46.9	P/P	45 - 118
2348248	Endosulfan I	59.4	60.8	P/P	51 - 106
2348248	Endosulfan II	45.2	43.4	P/P	37 - 122
2348248	Endosulfan Sulfate	49.5	50.3	P/P	43 - 132
2348248	Endrin	50.8	49.6	P/P	29 - 101
2348248	Endrin Aldehyde	40.2	36.5	P/P	19 - 110
2348248	Endrin Ketone	81.2	76.7	P/P	60 - 140
2348248	Esfenvalerate	67.5	64.3	P/P	26 - 199
2348248	Ethalfuralin	64.0	68.8	P/P	45 - 99.0
2348248	Fenpropathrin	50.1	49.6	P/P	35 - 120
2348248	Gamma-BHC	94.0	110	P/P	63 - 128
2348248	Gamma-Chlordane	51.6	53.0	P/P	40 - 104
2348248	Heptachlor	54.2	58.0	P/P	36 - 97.0
2348248	Heptachlor Epoxide	58.5	59.4	P/P	49 - 184
2348248	Hexachlorobenzene	63.6	69.8	P/P	39 - 96.0
2348248	Kepone	83.7	74.4	P/P	10 - 217
2348248	Lambda-Cyhalothrin	62.6	62.0	P/P	21 - 193
2348248	Methoprene	50.1	61.1	P/P	20 - 106
2348248	Methoxychlor	103	80.8	P/P	53 - 118
2348248	MGK-264	57.7	66.3	P/P	40 - 118
2348248	Mirex	42.2	40.8	P/P	26 - 92.0
2348248	Oxychlordane	68.8	64.1	P/P	44 - 99.0
2348248	Permethrin	62.5	62.1	P/P	33 - 182
2348248	Phenothrin	52.3	56.0	P/P	10 - 129
2348248	Piperonyl Butoxide	77.0	83.5	P/P	10 - 211
2348248	Prallethrin	55.7	57.5	P/P	24 - 113
2348248	Tau-Fluvalinate	60.9	58.1	P/P	14 - 149
2348248	Tetramethrin	64.0	56.0	P/P	17 - 151
2348248	Trans-Nonachlor	47.3	48.0	P/P	42 - 102
2348248	Triclosan Methyl	50.2	51.3	P/P	48 - 108
2348248	Trifluralin	63.5	66.7	P/P	47 - 96.0

Reference Method: EPA 8276

Batch ID: P418171

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348185	Chlordane	82.5	67.8	P/P	53 - 126
2348185	Toxaphene	89.5	77.1	P/P	56 - 211

Reference Method: EPA 8321B

Batch ID: P417915

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2347977	Acesulfame K	94.2	91.1	P/P	40 - 150
2347977	AMPA	95.3	93.9	P/P	40 - 150
2347977	Endothall	112	112	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P417915

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2347977	Glufosinate	105	101	P/P	40 - 150
2347977	Glyphosate	92.8	90.4	P/P	40 - 150
2347977	Sucralose	106	102	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P417988

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2347749	2,4-D	96.2	89.7	P/P	40 - 150
2347749	2,4,5-T	72.7	66.5	P/P	40 - 150
2347749	Acetaminophen	83.8	82.1	P/P	30 - 150
2347749	Acetamiprid	109	94.7	P/P	40 - 150
2347749	Afidopyropen	98.2	79.5	P/P	30 - 150
2347749	Bentazon	67.5	75.3	P/P	30 - 150
2347749	Benzovindiflupyr	81.3	87.7	P/P	40 - 150
2347749	Carbamazepine	116	98.7	P/P	40 - 150
2347749	Clothianidin	100	97.8	P/P	40 - 150
2347749	Dinotefuran	114	115	P/P	40 - 150
2347749	Diuron	81.2	72.5	P/P	40 - 150
2347749	Fenuron	98.5	101	P/P	40 - 150
2347749	Fluridone	98.2	79.3	P/P	40 - 150
2347749	Hydrocodone	105	102	P/P	40 - 150
2347749	Ibuprofen	94.6	94.8	P/P	40 - 150
2347749	Imazapyr	114	114	P/P	40 - 150
2347749	Imidacloprid	143	152	P/F	40 - 150
2347749	Linuron	108	96.9	P/P	40 - 150
2347749	Mandestrobin	83.6	85.0	P/P	40 - 150
2347749	MCP	89.6	85.0	P/P	40 - 150
2347749	Naproxen	74.7	62.9	P/P	40 - 150
2347749	Primidone	81.5	106	P/P	40 - 150
2347749	Pyraclostrobin	81.1	80.9	P/P	40 - 150
2347749	Silvex	82.1	82.5	P/P	40 - 150
2347749	Thiamethoxam	162	162	F/F	40 - 150
2347749	Tolfenpyrad	41.9	40.2	P/P	30 - 150
2347749	Triclopyr	86.1	78.4	P/P	40 - 150

Reference Method: SM 5310 B-2011
Batch ID: P418225

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2347731	Organic Carbon	96.2	96.9	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P417920

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2347822	Color (true)	1.64	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P417930

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2347715	Turbidity	5.87	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418211

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2347680	Chloride	1.76	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418214

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2347680	Sulfate	1.62	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418166

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2347681	Ammonia-N	0.507	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418182

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2347718	Kjeldahl Nitrogen	0.965	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418108

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2347716	NO2NO3-N	0.512	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417992

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2347716	Total-P	2.08	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P418171

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348185	PCB-1016	15.4	Spike	P	0 - 32
2348185	PCB-1260	12.3	Spike	P	0 - 31
2348248	Aldrin	8.53	Spike	P	0 - 41
2348248	Alpha-BHC	15.7	Spike	P	0 - 25
2348248	Alpha-Chlordane	5.00	Spike	P	0 - 33
2348248	Beta-BHC	9.44	Spike	P	0 - 36
2348248	Beta-Cyfluthrin	4.65	Spike	P	0 - 42
2348248	Bifenthrin	23.0	Spike	P	0 - 53
2348248	Carbophenothion	7.89	Spike	P	0 - 49
2348248	Chlorothalonil	13.2	Spike	P	0 - 71
2348248	Cis-Nonachlor	1.10	Spike	P	0 - 29
2348248	Cypermethrin	2.93	Spike	P	0 - 40
2348248	Dacthal	7.47	Spike	P	0 - 26
2348248	DDD-p,p'	2.31	Spike	P	0 - 39
2348248	DDE-p,p'	1.96	Spike	P	0 - 33
2348248	DDT-p,p'	4.55	Spike	P	0 - 40
2348248	Delta-BHC	9.24	Spike	P	0 - 37
2348248	Deltamethrin	6.22	Spike	P	0 - 100
2348248	Dichlobenil	2.08	Spike	P	0 - 40
2348248	Dicofol	14.7	Spike	P	0 - 31
2348248	Dieldrin	0.407	Spike	P	0 - 27
2348248	Endosulfan I	2.34	Spike	P	0 - 23
2348248	Endosulfan II	4.02	Spike	P	0 - 28
2348248	Endosulfan Sulfate	1.59	Spike	P	0 - 38
2348248	Endrin	2.50	Spike	P	0 - 63
2348248	Endrin Aldehyde	9.74	Spike	P	0 - 60
2348248	Endrin Ketone	5.64	Spike	P	0 - 37
2348248	Esfenvalerate	4.98	Spike	P	0 - 52
2348248	Ethalfuralin	7.17	Spike	P	0 - 23
2348248	Fenpropathrin	1.18	Spike	P	0 - 32
2348248	Gamma-BHC	15.7	Spike	P	0 - 17
2348248	Gamma-Chlordane	2.66	Spike	P	0 - 40
2348248	Heptachlor	6.73	Spike	P	0 - 29
2348248	Heptachlor Epoxide	1.51	Spike	P	0 - 25
2348248	Hexachlorobenzene	9.37	Spike	P	0 - 36
2348248	Kepone	11.8	Spike	P	0 - 93
2348248	Lambda-Cyhalothrin	0.985	Spike	P	0 - 55
2348248	Methoprene	19.8	Spike	P	0 - 53
2348248	Methoxychlor	24.3	Spike	P	0 - 29
2348248	MGK-264	13.8	Spike	P	0 - 35
2348248	Mirex	3.46	Spike	P	0 - 46
2348248	Oxychlordane	7.12	Spike	P	0 - 29
2348248	Permethrin	0.592	Spike	P	0 - 44
2348248	Phenothrin	6.87	Spike	P	0 - 56
2348248	Piperonyl Butoxide	7.28	Spike	P	0 - 100
2348248	Prallethrin	3.21	Spike	P	0 - 42
2348248	Tau-Fluvalinate	4.69	Spike	P	0 - 54
2348248	Tetramethrin	13.3	Spike	P	0 - 51
2348248	Trans-Nonachlor	1.34	Spike	P	0 - 37
2348248	Triclosan Methyl	2.23	Spike	P	0 - 31
2348248	Trifluralin	4.86	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P418171

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348185	Chlordane	19.6	Spike	P	0 - 25
2348185	Toxaphene	14.9	Spike	P	0 - 26

Reference Method: EPA 8321B
Batch ID: P417915

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2347977	Acesulfame K	3.35	Spike	P	0 - 30
2347977	AMPA	1.51	Spike	P	0 - 30
2347977	Endothall	0.539	Spike	P	0 - 30
2347977	Glufosinate	3.71	Spike	P	0 - 30
2347977	Glyphosate	2.63	Spike	P	0 - 30
2347977	Sucralose	4.19	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P417988

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2347749	2,4-D	6.57	Spike	P	0 - 30
2347749	2,4,5-T	8.88	Spike	P	0 - 30
2347749	Acetaminophen	2.11	Spike	P	0 - 30
2347749	Acetamiprid	14.4	Spike	P	0 - 30
2347749	Afidopyropen	21.0	Spike	P	0 - 30
2347749	Bentazon	6.99	Spike	P	0 - 30
2347749	Benzovindiflupyr	7.65	Spike	P	0 - 30
2347749	Carbamazepine	15.8	Spike	P	0 - 30
2347749	Clothianidin	2.31	Spike	P	0 - 30
2347749	Dinotefuran	1.17	Spike	P	0 - 30
2347749	Diuron	11.3	Spike	P	0 - 30
2347749	Fenuron	2.93	Spike	P	0 - 30
2347749	Fluridone	19.2	Spike	P	0 - 30
2347749	Hydrocodone	2.35	Spike	P	0 - 30
2347749	Ibuprofen	0.155	Spike	P	0 - 30
2347749	Imazapyr	0.130	Spike	P	0 - 30
2347749	Imidacloprid	6.00	Spike	P	0 - 30
2347749	Linuron	10.9	Spike	P	0 - 30
2347749	Mandestrobin	1.69	Spike	P	0 - 30
2347749	MCPP	5.22	Spike	P	0 - 30
2347749	Naproxen	17.2	Spike	P	0 - 30
2347749	Primidone	26.3	Spike	P	0 - 30
2347749	Pyraclostrobin	0.257	Spike	P	0 - 30
2347749	Silvex	0.482	Spike	P	0 - 30
2347749	Thiamethoxam	0.135	Spike	P	0 - 30
2347749	Tolfenpyrad	4.01	Spike	P	0 - 30
2347749	Triclopyr	9.33	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P418288

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2347762	Total Alkalinity	0.143	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P418393

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2347321	TDS	4.03	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P418594

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2347814	Fluoride	0.476	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P418225

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2347731	Organic Carbon	0.570	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2347827

Field Sample ID: G5SE0058

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	75.4	P	29 - 130
EPA 8270E	Decachlorobiphenyl	45.9	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	50.9	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	57.0	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	58.5	P	30 - 101
EPA 8276	PCNB	71.0	P	48 - 121

Lab Sample ID: 2347828

Field Sample ID: G5SE0091

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	86.0	P	29 - 130
EPA 8270E	Decachlorobiphenyl	34.4	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	55.4	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	58.7	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	66.6	P	30 - 101
EPA 8276	PCNB	73.1	P	48 - 121

Lab Sample ID: 2347829

Field Sample ID: G5SE0117

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	90.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	52.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	92.5	P	30 - 160
EPA 8321B	Diuron-d6	77.9	P	30 - 160
EPA 8321B	Endothall-d6	94.8	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	86.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	128	P	30 - 160
EPA 8321B	Primidone-d5	77.1	P	30 - 160
EPA 8321B	Sucralose-d6	61.6	P	30 - 160

Lab Sample ID: 2347830

Field Sample ID: FB_08092022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	92.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	52.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	117	P	30 - 160
EPA 8321B	Diuron-d6	92.4	P	30 - 160
EPA 8321B	Endothall-d6	98.3	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	99.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	82.5	P	30 - 160
EPA 8321B	Primidone-d5	90.5	P	30 - 160
EPA 8321B	Sucralose-d6	105	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A114011

Included Lab Sample IDs: 2347822

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	104	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A114012

Included Lab Sample IDs: 2347822

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A114090

Included Lab Sample IDs: 2347823

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	96.5	97.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A114095

Included Lab Sample IDs: 2347829, 2347830

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	92.7	96.3	P/P	60 - 160
Endothall	92.8	93.8	P/P	60 - 160
Glufosinate	95.2	89.9	P/P	60 - 160
Glyphosate	96.4	96.5	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A114101

Included Lab Sample IDs: 2347823

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A114126

Included Lab Sample IDs: 2347823

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.7	100	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A114138

Included Lab Sample IDs: 2347829, 2347830

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	104	97.3	P/P	60 - 160
Acesulfame K	91.4	89.4	P/P	60 - 160
Sucralose	98.7	96.4	P/P	60 - 160
Sucralose	99.1	99.2	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A114142

Included Lab Sample IDs: 2347822

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.7	102	P/P	90 - 110
Sulfate	99.5	103	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A114152

Included Lab Sample IDs: 2347823

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.2	97.7	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A114177

Included Lab Sample IDs: 2347822

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.2	97.4	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A114182

Included Lab Sample IDs: 2347827

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	97.3		P	80 - 120
Alpha-BHC	97.0		P	80 - 120
Alpha-Chlordane	95.9		P	80 - 120
Beta-BHC	99.8		P	80 - 120
Beta-Cyfluthrin	88.6		P	80 - 120
Bifenthrin	100		P	80 - 120
Carbophenothion	89.7		P	80 - 120
Chlorothalonil	119		P	80 - 120
Cis-Nonachlor	94.2		P	80 - 120
Cypermethrin	89.1		P	80 - 120
Dacthal	98.0		P	80 - 120
DDD-p,p'	96.4		P	80 - 120
DDE-p,p'	96.8		P	80 - 120
DDT-p,p'	99.9		P	80 - 120
Delta-BHC	99.3		P	80 - 120
Deltamethrin	86.5		P	80 - 120
Dichlobenil	93.0		P	80 - 120
Dicofol	85.1		P	80 - 120
Dieldrin	96.4		P	80 - 120
Endosulfan I	100		P	80 - 120
Endosulfan II	94.4		P	80 - 120
Endosulfan Sulfate	84.8		P	80 - 120
Endrin	95.4		P	80 - 120
Endrin Aldehyde	91.0		P	80 - 120
Endrin Ketone	98.4		P	80 - 120
Esfenvalerate	91.6		P	80 - 120
Ethalfuralin	100		P	80 - 120
Fenpropathrin	97.0		P	80 - 120
Gamma-BHC	118		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A114182
Included Lab Sample IDs: 2347827

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Gamma-Chlordane	96.1		P	80 - 120
Heptachlor	92.1		P	80 - 120
Heptachlor Epoxide	98.9		P	80 - 120
Hexachlorobenzene	99.3		P	80 - 120
Kepone	50.6*		F	80 - 120
Lambda-Cyhalothrin	92.8		P	80 - 120
Methoprene	94.6		P	80 - 120
Methoxychlor	137*		F	80 - 120
MGK-264	91.3		P	80 - 120
Mirex	98.0		P	80 - 120
Oxychlordane	98.4		P	80 - 120
Permethrin	92.4		P	80 - 120
Phenothrin	89.7		P	80 - 120
Piperonyl Butoxide	91.7		P	80 - 120
Prallethrin	87.0		P	80 - 120
Tau-Fluvalinate	89.4		P	80 - 120
Tetramethrin	114		P	80 - 120
Trans-Nonachlor	97.7		P	80 - 120
Triclosan Methyl	99.6		P	80 - 120
Trifluralin	98.2		P	80 - 120

Reference Method: EPA 8270E
Run ID: A114183
Included Lab Sample IDs: 2347827, 2347828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	98.9		P	80 - 120
PCB-1260	98.3		P	80 - 120

Reference Method: EPA 8276
Run ID: A114201
Included Lab Sample IDs: 2347827, 2347828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	101		P	80 - 120
Toxaphene	106		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A114226
Included Lab Sample IDs: 2347823

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.0	98.9	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A114281
Included Lab Sample IDs: 2347828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	95.5		P	80 - 120
Alpha-BHC	103		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A114281
Included Lab Sample IDs: 2347828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Alpha-Chlordane	104		P	80 - 120
Beta-BHC	89.7		P	80 - 120
Beta-Cyfluthrin	93.1		P	80 - 120
Bifenthrin	112		P	80 - 120
Carbophenothion	104		P	80 - 120
Chlorothalonil	87.2		P	80 - 120
Cis-Nonachlor	104		P	80 - 120
Cypermethrin	94.9		P	80 - 120
Dacthal	99.0		P	80 - 120
DDD-p,p'	100		P	80 - 120
DDE-p,p'	97.1		P	80 - 120
DDT-p,p'	99.4		P	80 - 120
Delta-BHC	92.2		P	80 - 120
Deltamethrin	89.0		P	80 - 120
Dichlobenil	93.4		P	80 - 120
Dicofol	100		P	80 - 120
Dieldrin	99.9		P	80 - 120
Endosulfan I	99.8		P	80 - 120
Endosulfan II	97.8		P	80 - 120
Endosulfan Sulfate	91.5		P	80 - 120
Endrin	100		P	80 - 120
Endrin Aldehyde	95.1		P	80 - 120
Endrin Ketone	104		P	80 - 120
Esfenvalerate	91.0		P	80 - 120
Ethalfuralin	97.3		P	80 - 120
Fenpropathrin	108		P	80 - 120
Gamma-BHC	96.6		P	80 - 120
Gamma-Chlordane	98.5		P	80 - 120
Heptachlor	97.3		P	80 - 120
Heptachlor Epoxide	104		P	80 - 120
Hexachlorobenzene	95.8		P	80 - 120
Kepone	76.4*		F	80 - 120
Lambda-Cyhalothrin	94.5		P	80 - 120
Methoprene	94.9		P	80 - 120
Methoxychlor	122*		F	80 - 120
MGK-264	96.0		P	80 - 120
Mirex	97.8		P	80 - 120
Oxychlordane	95.9		P	80 - 120
Permethrin	92.5		P	80 - 120
Phenothrin	91.8		P	80 - 120
Piperonyl Butoxide	98.5		P	80 - 120
Prallethrin	97.3		P	80 - 120
Tau-Fluvalinate	93.4		P	80 - 120
Tetramethrin	121*		F	80 - 120
Trans-Nonachlor	106		P	80 - 120
Triclosan Methyl	101		P	80 - 120
Trifluralin	98.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: SM 4500-F- C-2011

Run ID: A114295

Included Lab Sample IDs: 2347822

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.5	98.6	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A114372

Included Lab Sample IDs: 2347829, 2347830

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	102	112	P/P	50 - 150
2,4,5-T	106	119	P/P	50 - 150
Acetaminophen	74.0	60.2	P/P	60 - 160
Acetamiprid	117	113	P/P	50 - 150
Afidopyropen	90.9	120	P/P	50 - 150
Bentazon	109	128	P/P	50 - 160
Benzovindiflupyr	108	106	P/P	50 - 150
Carbamazepine	112	118	P/P	60 - 150
Clothianidin	115	120	P/P	60 - 150
Dinotefuran	75.1	68.9	P/P	50 - 150
Diuron	89.2	104	P/P	60 - 160
Fenuron	101	106	P/P	60 - 150
Fluridone	119	109	P/P	60 - 160
Hydrocodone	80.5	72.0	P/P	60 - 150
Ibuprofen	95.9	134	P/P	50 - 160
Imazapyr	102	88.7	P/P	50 - 150
Imidacloprid	106	101	P/P	60 - 150
Linuron	127	101	P/P	60 - 150
Mandestrobin	102	106	P/P	50 - 150
MCPP	117	121	P/P	50 - 150
Naproxen	108	140	P/P	50 - 160
Primidone	90.9	95.9	P/P	60 - 150
Pyraclostrobin	103	105	P/P	60 - 150
Silvex	126	127	P/P	50 - 150
Thiamethoxam	102	89.9	P/P	50 - 150
Tolfenpyrad	105	109	P/P	60 - 150
Triclopyr	119	114	P/P	50 - 150

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
DEP SOP: NU-094-1	Color (true)	101				1.64
EPA 180.1 Rev. 2.0	Turbidity	96.4				5.87
EPA 300.0 Rev. 2.1	Chloride	100	98.3	98.2		1.76
	Sulfate	100	99.2	99.7		1.62
EPA 350.1 Rev. 2.0	Ammonia-N	97.6	101	102		
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.4	105	103		0.507
EPA 353.2 Rev. 2.0	NO2NO3-N	97.0	98.0	97.5		0.512
EPA 365.1 Rev. 2.0	Total-P	105	108	105		2.08
EPA 8270E	Aldrin	38.6	47.3	51.5		8.53
	Alpha-BHC	74.6	69.6	81.4		15.7
	Alpha-Chlordane	55.6	42.9	45.5		5.00
	Beta-BHC	95.4	99.7	110		9.44
	Beta-Cyfluthrin	45.1	61.4	58.6		4.65
	Bifenthrin	45.6	75.9	60.2		23.0
	Carbophenothion	35.1	43.6	47.2		7.89
	Chlorothalonil	104	166	190		13.2
	Cis-Nonachlor	47.7	42.4	41.9		1.10
	Cypermethrin	47.1	63.1	61.3		2.93
	Dacthal	72.1	62.4	67.2		7.47
	DDD-p,p'	56.3	44.2	43.2		2.31
	DDE-p,p'	54.4	39.3	40.2		1.96
	DDT-p,p'	59.9	56.7	59.5		4.55
	Delta-BHC	102	115	126		9.24
	Deltamethrin	57.6	80.3	75.5		6.22
	Dichlobenil	64.2	42.1	41.3		2.08
	Dicofol	72.0	105	90.5		14.7
	Dieldrin	60.7	47.1	46.9		0.407
	Endosulfan I	68.6	59.4	60.8		2.34
	Endosulfan II	59.3	45.2	43.4		4.02
	Endosulfan Sulfate	68.5	49.5	50.3		1.59
	Endrin	59.5	50.8	49.6		2.50
	Endrin Aldehyde	63.9	40.2	36.5		9.74
	Endrin Ketone	73.7	81.2	76.7		5.64
	Esfenvalerate	42.9	67.5	64.3		4.98
	Ethalfuralin	61.6	64.0	68.8		7.17
	Fenpropathrin	46.7	50.1	49.6		1.18
	Gamma-BHC	83.4	94.0	110		15.7
	Gamma-Chlordane	53.1	51.6	53.0		2.66
	Heptachlor	53.4	54.2	58.0		6.73
	Heptachlor Epoxide	64.0	58.5	59.4		1.51
	Hexachlorobenzene	58.7	63.6	69.8		9.37
	Kepone	110	83.7	74.4		11.8
	Lambda-Cyhalothrin	35.9	62.6	62.0		0.985
	Methoprene	30.3	50.1	61.1		19.8
	Methoxychlor	101	103	80.8		24.3
	MGK-264	63.2	57.7	66.3		13.8
	Mirex	37.4	42.2	40.8		3.46
	Oxychlordane	63.6	68.8	64.1		7.12
	PCB-1016	91.3	80.4	68.9		15.4
	PCB-1260	91.2	78.7	69.6		12.3
	Permethrin	44.4	62.5	62.1		0.592
	Phenothrin	25.5	52.3	56.0		6.87
	Piperonyl Butoxide	85.4	77.0	83.5		7.28
	Prallethrin	56.2	55.7	57.5		3.21

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Tau-Fluvalinate	35.1	60.9	58.1			4.69
	Tetramethrin	77.7	64.0	56.0			13.3
	Trans-Nonachlor	51.8	47.3	48.0			1.34
	Triclosan Methyl	62.6	50.2	51.3			2.23
	Trifluralin	62.5	63.5	66.7			4.86
EPA 8276	Chlordane	94.3	82.5	67.8			19.6
	Toxaphene	90.9	89.5	77.1			14.9
EPA 8321B	2,4-D	87.5	96.2	89.7			6.57
	2,4,5-T	82.5	72.7	66.5			8.88
	Acesulfame K	107	94.2	91.1			3.35
	Acetaminophen	94.0	83.8	82.1			2.11
	Acetamiprid	92.1	109	94.7			14.4
	Afidopyropen	86.6	98.2	79.5			21.0
	AMPA	94.7	95.3	93.9			1.51
	Bentazon	104	67.5	75.3			6.99
	Benzovindiflupyr	94.9	81.3	87.7			7.65
	Carbamazepine	105	116	98.7			15.8
	Clothianidin	114	100	97.8			2.31
	Dinotefuran	108	114	115			1.17
	Diuron	102	81.2	72.5			11.3
	Endothall	112	112	112			0.539
	Fenuron	122	98.5	101			2.93
	Fluridone	115	98.2	79.3			19.2
	Glufosinate	105	105	101			3.71
	Glyphosate	99.8	92.8	90.4			2.63
	Hydrocodone	106	105	102			2.35
	Ibuprofen	72.8	94.6	94.8			0.155
	Imazapyr	104	114	114			0.130
	Imidacloprid	86.8	143	152			6.00
	Linuron	101	108	96.9			10.9
	Mandestrobin	113	83.6	85.0			1.69
	MCPP	95.7	89.6	85.0			5.22
	Naproxen	104	74.7	62.9			17.2
	Primidone	79.8	81.5	106			26.3
	Pyraclostrobin	90.1	81.1	80.9			0.257
	Silvex	76.4	82.1	82.5			0.482
	Sucralose	104	106	102			4.19
	Thiamethoxam	101	162	162			0.135
	Tolfenpyrad	42.2	41.9	40.2			4.01
	Triclopyr	79.6	86.1	78.4			9.33
SM 2320 B-2011	Total Alkalinity	99.6				0.143	
SM 2540 C-2011	TDS					4.03	
SM 4500-F- C-2011	Fluoride	97.7					0.476
SM 5310 B-2011	Organic Carbon	95.2	96.2	96.9			0.570

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2347822
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2347822
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2347822
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2347822
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2347823

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2347823
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2347823
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2347823
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2347827, 2347828
EPA 8270E	PCBs in water matrices by GC/MS/MS	2347827, 2347828
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2347827, 2347828
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2347829, 2347830
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2347822
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2347822
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2347822
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2347822
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2347823

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	08/10/2022			08/10/2022 15:26	Samantha L Bates	2347822
EPA 180.1 Rev. 2.0	08/10/2022			08/10/2022 14:48	Khloe J Berg	2347822
EPA 300.0 Rev. 2.1	08/10/2022			08/17/2022 04:25	Anna M. Plaviak	2347822
EPA 350.1 Rev. 2.0	08/10/2022			08/16/2022 13:44	Judith K. Clark	2347823
EPA 351.2 Rev. 2.0	08/10/2022	08/17/2022 14:08	Samantha L Bates	08/19/2022 14:03	Alexandra J Mattheus	2347823
EPA 353.2 Rev. 2.0	08/10/2022			08/15/2022 10:14	Beverly Y. Sanders	2347823
EPA 365.1 Rev. 2.0	08/10/2022	08/12/2022 15:00	Simonne.V. Calhoun	08/15/2022 12:33	James L Waggeberby	2347823
EPA 8270E	08/10/2022	08/15/2022 08:30	Rasheda Ghaffari	08/17/2022 20:24	Vandana T. Nagar	2347827
	08/10/2022	08/15/2022 08:30	Rasheda Ghaffari	08/17/2022 23:11	Julie Wi	2347827
	08/10/2022	08/15/2022 08:30	Rasheda Ghaffari	08/17/2022 23:41	Julie Wi	2347828
	08/10/2022	08/15/2022 08:30	Rasheda Ghaffari	08/24/2022 01:41	Vandana T. Nagar	2347828
EPA 8276	08/10/2022	08/15/2022 08:30	Rasheda Ghaffari	08/18/2022 07:48	Arthur Maknenko	2347827
	08/10/2022	08/15/2022 08:30	Rasheda Ghaffari	08/18/2022 08:43	Arthur Maknenko	2347828
EPA 8321B	08/10/2022	08/12/2022 09:00	Umesh Chiluwal	08/12/2022 18:14	Umesh Chiluwal	2347830
	08/10/2022	08/12/2022 09:00	Umesh Chiluwal	08/13/2022 03:44	Umesh Chiluwal	2347829
	08/10/2022	08/12/2022 09:00	Umesh Chiluwal	08/13/2022 12:37	Umesh Chiluwal	2347829
	08/10/2022	08/12/2022 09:00	Umesh Chiluwal	08/13/2022 12:50	Umesh Chiluwal	2347830
	08/10/2022	08/16/2022 09:00	June Rhew	08/17/2022 05:05	Juyoung Kim	2347829
	08/10/2022	08/16/2022 09:00	June Rhew	08/17/2022 05:26	Juyoung Kim	2347830
SM 2320 B-2011	08/10/2022			08/17/2022 04:05	Adam P Silver	2347822
SM 2540 C-2011	08/10/2022			08/12/2022 15:21	Yijie Li	2347822
SM 2540 D-2011	08/10/2022			08/12/2022 15:21	Yijie Li	2347822
SM 4500-F- C-2011	08/10/2022			08/24/2022 03:37	Dale L. Simmons	2347822
SM 5310 B-2011	08/10/2022			08/16/2022 05:39	Khloe J Berg	2347823