

Chemical Analysis Report

NE-DIST-2023-09-27-01

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

Event Description: **LSJR Southside 2023**
Request ID: **RQ-2023-09-18-28**
Customer: **NE-DIST**
Project ID: **SMP**

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

Date Certified: 20-OCT-2023 17:09



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: BIG POTTSBURG CR BOWDEN RD

Collection Date/Time: 09/26/2023 09:50

Field ID: 20030068

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2440601	EPA 8270E	Aldrin	0.67	U	ng/L	P435653	
		Alpha-BHC	0.13	I	ng/L	P435653	
		Alpha-Chlordane	0.21	U	ng/L	P435653	
		PCB-1016	2.1	U	ng/L	P435653	
		Beta-BHC	0.13	I	ng/L	P435653	
		PCB-1221	2.1	U	ng/L	P435653	
		Beta-Cyfluthrin	1.3	U	ng/L	P435653	
		PCB-1232	2.1	U	ng/L	P435653	
		Bifenthrin	0.51	U	ng/L	P435653	
		PCB-1242	2.1	U	ng/L	P435653	
		Carbophenothion	0.92	U	ng/L	P435653	
		PCB-1248	2.1	U	ng/L	P435653	
		Chlorothalonil	3.7	U	ng/L	P435653	
		PCB-1254	2.1	U	ng/L	P435653	
		Cis-Nonachlor	0.21	U	ng/L	P435653	
		PCB-1260	2.1	U	ng/L	P435653	
		Cypermethrin	1.5	U	ng/L	P435653	
		Dacthal	0.15	U	ng/L	P435653	
		DDD-p,p'	0.26	U	ng/L	P435653	
		DDE-p,p'	0.21	U	ng/L	P435653	
		DDT-p,p'	0.82	U	ng/L	P435653	
		Delta-BHC	0.41	U	ng/L	P435653	
		Deltamethrin	1.3	U	ng/L	P435653	
		Dichlobenil	0.26	U	ng/L	P435653	
		Dicofol	1.3	U	ng/L	P435653	
		Dieldrin	0.41	U	ng/L	P435653	
		Endosulfan I	0.41	U	ng/L	P435653	
		Endosulfan II	0.92	U	ng/L	P435653	
		Endosulfan Sulfate	0.31	U	ng/L	P435653	
		Endrin	0.92	U	ng/L	P435653	
		Endrin Aldehyde	0.77	U	ng/L	P435653	
		Endrin Ketone	0.41	U	ng/L	P435653	
		Esfenvalerate	0.77	U	ng/L	P435653	
		Ethalfuralin	0.15	U	ng/L	P435653	
		Fenpropathrin	0.26	U	ng/L	P435653	
		Gamma-BHC	0.13	U	ng/L	P435653	RPD
		Gamma-Chlordane	0.23	I	ng/L	P435653	
		Heptachlor	0.21	U	ng/L	P435653	
		Heptachlor Epoxide	0.26	U	ng/L	P435653	
		Hexachlorobenzene**	1.0	U	ng/L	P435653	
		Kepone	14	U	ng/L	P435653	
		Lambda-Cyhalothrin	0.77	U	ng/L	P435653	
		Methoprene	0.77	U	ng/L	P435653	
		Methoxychlor	0.31	U	ng/L	P435653	

Field ID: 20030068

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2440601	EPA 8270E	MGK-264	0.21	U	ng/L	P435653	
		Mirex	0.36	U	ng/L	P435653	
		Oxychlordane	0.31	U	ng/L	P435653	
		Permethrin	1.6	U	ng/L	P435653	
		Phenothrin	0.92	U	ng/L	P435653	
		Piperonyl Butoxide	0.15	U	ng/L	P435653	
		Prallethrin	2.1	U	ng/L	P435653	
		Tau-Fluvalinate	0.26	U	ng/L	P435653	
		Tetramethrin	0.77	U	ng/L	P435653	
		Trans-Nonachlor	0.21	U	ng/L	P435653	
		Triclosan Methyl	0.15	U	ng/L	P435653	
		Trifluralin	0.21	U	ng/L	P435653	
	EPA 8276	Chlordane	2.1	U	ng/L	P435653	
		Toxaphene	15	U	ng/L	P435653	

Sample Location: CHRISTOPHER CR AT SAN JOSE BLVD SR 13 Collection Date/Time: 09/26/2023 10:30

Field ID: 20030863

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2440585	DEP SOP: NU-094-1	Color (true)	65		PCU	P435606	
	EPA 180.1 Rev. 2.0	Turbidity	5.6		NTU	P435617	
	EPA 300.0 Rev. 2.1	Chloride	1.6E+03		mg Cl/L	P436046	
		Sulfate	250		mg SO4/L	P436049	
	SM 2320 B-2011	Total Alkalinity	72		mg CaCO3/L	P435768	
	SM 2540 C-2015	TDS	2.70E+03		mg/L	P436283	
	SM 2540 D-2015	TSS	6	I	mg/L	P436015	
	SM 4500-F- C-2011	Fluoride	0.22		mg F/L	P436092	
2440587	EPA 350.1 Rev. 2.0	Ammonia-N	0.026		mg N/L	P435864	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.76		mg N/L	P435773	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.089		mg N/L	P436205	
	EPA 365.1 Rev. 2.0	Total-P	0.091		mg P/L	P435778	
	SM 5310 B-2011	Organic Carbon	12		mg C/L	P435847	

Ref. Method and Comment:

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

Sample Location: GOODBYS CREEK AT SANCHEZ RD

Collection Date/Time: 09/26/2023 11:00

Field ID: 20030594

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2440602	EPA 8270E	Aldrin	0.69	U	ng/L	P435653	
		Alpha-BHC	0.11	U	ng/L	P435653	
		Alpha-Chlordane	0.21	U	ng/L	P435653	
		PCB-1016	2.1	U	ng/L	P435653	
		Beta-BHC	0.11	U	ng/L	P435653	
		PCB-1221	2.1	U	ng/L	P435653	
		Beta-Cyfluthrin	1.3	U	ng/L	P435653	
		PCB-1232	2.1	U	ng/L	P435653	
		Bifenthrin	0.53	U	ng/L	P435653	
		PCB-1242	2.1	U	ng/L	P435653	
		PCB-1248	2.1	U	ng/L	P435653	
		Chlorothalonil	3.8	U	ng/L	P435653	
		PCB-1254	2.1	U	ng/L	P435653	
		Cis-Nonachlor	0.21	U	ng/L	P435653	
		PCB-1260	2.1	U	ng/L	P435653	
		Cypermethrin	1.6	U	ng/L	P435653	
		Dacthal	0.16	U	ng/L	P435653	
		DDD-p,p'	0.26	U	ng/L	P435653	
		DDE-p,p'	0.21	U	ng/L	P435653	
		DDT-p,p'	0.84	U	ng/L	P435653	
		Delta-BHC	0.42	U	ng/L	P435653	
		Deltamethrin	1.3	U	ng/L	P435653	
		Dichlobenil	0.26	U	ng/L	P435653	
		Dicofol	1.3	U	ng/L	P435653	
		Dieldrin	0.42	U	ng/L	P435653	
		Endosulfan I	0.42	U	ng/L	P435653	
		Endosulfan II	0.95	U	ng/L	P435653	
		Endosulfan Sulfate	0.32	U	ng/L	P435653	
		Endrin	0.95	U	ng/L	P435653	
		Endrin Aldehyde	0.79	U	ng/L	P435653	
		Endrin Ketone	0.42	U	ng/L	P435653	
		Esfenvalerate	0.79	U	ng/L	P435653	
		Ethalfuralin	0.16	U	ng/L	P435653	
		Fenpropathrin	0.26	U	ng/L	P435653	
		Gamma-BHC	0.13	U	ng/L	P435653	RPD
		Gamma-Chlordane	0.28	I	ng/L	P435653	
		Heptachlor	0.21	U	ng/L	P435653	
		Heptachlor Epoxide	0.26	U	ng/L	P435653	
		Hexachlorobenzene**	1.1	U	ng/L	P435653	
		Kepone	14	U	ng/L	P435653	
		Lambda-Cyhalothrin	0.79	U	ng/L	P435653	
		Methoprene	0.79	U	ng/L	P435653	
		Methoxychlor	0.32	U	ng/L	P435653	
		MGK-264	0.21	U	ng/L	P435653	

Field ID: 20030594

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2440602	EPA 8270E	Mirex	0.37	U	ng/L	P435653	
		Oxychlordane	0.32	U	ng/L	P435653	
		Permethrin	1.7	U	ng/L	P435653	
		Phenothrin	0.95	U	ng/L	P435653	
		Piperonyl Butoxide	1.3		ng/L	P435653	
		Prallethrin	2.1	U	ng/L	P435653	
		Tau-Fluvalinate	0.26	U	ng/L	P435653	
		Tetramethrin	0.79	U	ng/L	P435653	
		Trans-Nonachlor	0.21	U	ng/L	P435653	
		Triclosan Methyl	0.16	U	ng/L	P435653	
		Trifluralin	0.21	U	ng/L	P435653	
	EPA 8276	Chlordane	2.1	U	ng/L	P435653	
		Toxaphene	16	U	ng/L	P435653	

Sample Location: OLDFIELD CREEK AT TAR KILN RD

Collection Date/Time: 09/26/2023 11:45

Field ID: G2NE1174

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2440586	DEP SOP: NU-094-1	Color (true)	33		PCU	P435606	
	EPA 180.1 Rev. 2.0	Turbidity	5.0	A	NTU	P435618	
	EPA 300.0 Rev. 2.1	Chloride	36		mg Cl/L	P436046	
		Sulfate	30		mg SO4/L	P436049	
	SM 2320 B-2011	Total Alkalinity	73		mg CaCO3/L	P435768	
	SM 2540 C-2015	TDS	183		mg/L	P436283	
	SM 2540 D-2015	TSS	2	I	mg/L	P436015	
	SM 4500-F- C-2011	Fluoride	0.11		mg F/L	P435770	
2440588	EPA 350.1 Rev. 2.0	Ammonia-N	0.029		mg N/L	P435751	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.38		mg N/L	P435774	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.21		mg N/L	P436261	
	EPA 365.1 Rev. 2.0	Total-P	0.075		mg P/L	P435710	
	SM 5310 B-2011	Organic Carbon	6.1		mg C/L	P435847	

Ref. Method and Comment:

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

Sample Location: CORMORANT BRANCH AT MARBON RD

Collection Date/Time: 09/26/2023 12:10

Field ID: 20030852

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2440583	DEP SOP: NU-094-1	Color (true)	52		PCU	P435606	
	EPA 180.1 Rev. 2.0	Turbidity	5.3		NTU	P435617	
	EPA 300.0 Rev. 2.1	Chloride	22		mg Cl/L	P436046	
		Sulfate	14		mg SO4/L	P436049	
	SM 2320 B-2011	Total Alkalinity	62		mg CaCO3/L	P435768	
	SM 2540 C-2015	TDS	136		mg/L	P436283	
	SM 2540 D-2015	TSS	2	I	mg/L	P436015	
	SM 4500-F- C-2011	Fluoride	0.091	I	mg F/L	P435770	
2440584	EPA 350.1 Rev. 2.0	Ammonia-N	0.034		mg N/L	P435751	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.42		mg N/L	P435774	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.17		mg N/L	P436261	
	EPA 365.1 Rev. 2.0	Total-P	0.087		mg P/L	P435915	
	SM 5310 B-2011	Organic Carbon	6.5		mg C/L	P435847	
2440604	EPA 8321B	2,4-D	0.013		ug/L	P435737	
		Acesulfame K	0.10	U	ug/L	P435496	
		2,4,5-T	0.0040	U	ug/L	P435567	
		AMPA	0.20	I	ug/L	P435496	
		Acetaminophen	0.0080	U	ug/L	P435567	
		Acetamiprid	0.0020	U	ug/L	P435567	
		Endothall	0.25	U	ug/L	P435496	MS
		Glufosinate	0.10	U	ug/L	P435496	
		Glyphosate	0.10	U	ug/L	P435496	
		Afidopyropen	0.0020	U	ug/L	P435567	
		Bentazon	0.017		ug/L	P435567	
		Sucralose	0.16		ug/L	P435496	
		Benzovindiflupyr	0.0020	U	ug/L	P435567	
		Carbamazepine	8.0E-04	U	ug/L	P435567	
		Clothianidin	0.0022	I	ug/L	P435567	
		Dinotefuran	0.0020	U	ug/L	P435567	
		Diuron	0.016		ug/L	P435567	
		Fenuron	0.032	U	ug/L	P435567	
		Fluridone	0.0085		ug/L	P435567	MS
		Imazapyr	1.0		ug/L	P435567	
		Hydrocodone	0.0020	U	ug/L	P435567	
		Ibuprofen	0.080	U	ug/L	P435567	
		Imidacloprid	0.014		ug/L	P435567	
		Linuron	0.0040	U	ug/L	P435567	
		Mandestrobin	0.0020	U	ug/L	P435567	
		MCP	0.0020	U	ug/L	P435567	
		Naproxen	0.0080	U	ug/L	P435567	
		Primidone	0.0040	U	ug/L	P435567	
		Pyraclostrobin	0.0020	U	ug/L	P435567	
		Silvex	0.0040	U	ug/L	P435567	
		Thiamethoxam	0.0020	U	ug/L	P435567	

Field ID: 20030852

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2440604	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P435567	
		Triclopyr	0.0040	U	ug/L	P435567	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: MS accuracy for imazapyr could not be assessed due to high concentration of parameter in the spiked sample.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P435606

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435617

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435618

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436046

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436049

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435751

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435864

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435773

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435774

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436205

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436261

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435710

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435778

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435915

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

Reference Method: EPA 8270E
Batch ID: P435653

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Carbophenothion	0.90	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.80	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P435653

Component	Result	Code	Units
Endrin	0.90	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	14	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276

Batch ID: P435653

Component	Result	Code	Units
Chlordane	2.0	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: EPA 8321B

Batch ID: P435496

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P435567

Component	Result	Code	Units
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: EPA 8321B
Batch ID: P435737

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P435768

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

Reference Method: SM 2540 C-2015
Batch ID: P436283

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P436015

Component	Result	Code	Units
TSS	2	U	mg/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 4500-F- C-2011
Batch ID: P435770

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P436092

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P435847

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: P435606

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.8		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435617

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435618

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436046

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436049

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435751

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435864

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435773

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	95.7		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435774

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	96.2		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436205

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436261

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435710

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435778

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435915

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

Reference Method: EPA 8270E
Batch ID: P435653

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	52.2		P	30 - 96.0
Alpha-BHC	77.4		P	70 - 109
Alpha-Chlordane	88.3		P	45 - 107
Beta-BHC	73.8		P	64 - 138
Beta-Cyfluthrin	77.8		P	17 - 141
Bifenthrin	54.3		P	10 - 113
Carbophenothion	50.2		P	24 - 91.0
Chlorothalonil	107		P	26 - 180
Cis-Nonachlor	70.4		P	37 - 102
Cypermethrin	69.5		P	20 - 133
Dacthal	99.0		P	69 - 114
DDD-p,p'	61.9		P	42 - 105
DDE-p,p'	68.2		P	42 - 106
DDT-p,p'	56.4		P	42 - 107
Delta-BHC	103		P	67 - 144
Deltamethrin	76.9		P	15 - 149
Dichlobenil	74.7		P	46 - 117
Dicofol	67.4		P	34 - 114
Dieldrin	74.6		P	50 - 108
Endosulfan I	76.2		P	55 - 104
Endosulfan II	93.6		P	51 - 111
Endosulfan Sulfate	83.1		P	56 - 121

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P435653

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endrin	77.6		P	10 - 106
Endrin Aldehyde	62.1		P	34 - 114
Endrin Ketone	94.7		P	63 - 177
Esfenvalerate	64.6		P	29 - 143
Ethalfuralin	73.9		P	46 - 96.0
Fenpropathrin	71.8		P	28 - 115
Gamma-BHC	79.0		P	65 - 121
Gamma-Chlordane	73.4		P	39 - 103
Heptachlor	56.5		P	39 - 94.0
Heptachlor Epoxide	74.6		P	54 - 104
Hexachlorobenzene	78.3		P	36 - 100
Kepone	140		P	10 - 225
Lambda-Cyhalothrin	56.8		P	10 - 135
Methoprene	48.4		P	10 - 109
Methoxychlor	74.2		P	52 - 112
MGK-264	60.6		P	44 - 117
Mirex	64.9		P	20 - 90.0
Oxychlordane	70.1		P	44 - 102
PCB-1016	77.3		P	45 - 107
PCB-1260	89.1		P	40 - 118
Permethrin	73.3		P	18 - 135
Phenothrin	55.1		P	10 - 102
Piperonyl Butoxide	81.5		P	28 - 156
Prallethrin	71.7		P	28 - 113
Tau-Fluvalinate	68.8		P	10 - 123
Tetramethrin	65.5		P	18 - 158
Trans-Nonachlor	71.0		P	39 - 104
Triclosan Methyl	66.1		P	54 - 108
Trifluralin	69.8		P	46 - 97.0

Reference Method: EPA 8276

Batch ID: P435653

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	92.2		P	52 - 117
Toxaphene	99.8		P	44 - 125

Reference Method: EPA 8321B

Batch ID: P435496

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	95.9		P	40 - 150
AMPA	76.6		P	40 - 150
Endothall	99.7		P	40 - 150
Glufosinate	126		P	40 - 150
Glyphosate	72.5		P	40 - 150
Sucralose	99.3		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P435567

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

Reference Method: EPA 8321B
Batch ID: P435567

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4,5-T	119		P	40 - 150
Acetaminophen	98.9		P	30 - 150
Acetamiprid	92.1		P	40 - 150
Afidopyropen	48.0		P	30 - 150
Bentazon	93.0		P	30 - 150
Benzovindiflupyr	91.2		P	40 - 150
Carbamazepine	95.8		P	40 - 150
Clothianidin	110		P	40 - 150
Dinotefuran	116		P	40 - 150
Diuron	90.0		P	40 - 150
Fenuron	98.1		P	40 - 150
Fluridone	79.7		P	40 - 150
Hydrocodone	97.7		P	40 - 150
Ibuprofen	74.8		P	40 - 150
Imazapyr	98.0		P	40 - 150
Imidacloprid	96.6		P	40 - 150
Linuron	71.1		P	40 - 150
Mandestrobin	90.9		P	40 - 150
MCPP	110		P	40 - 150
Naproxen	70.8		P	40 - 150
Primidone	97.3		P	40 - 150
Pyraclostrobin	88.9		P	40 - 150
Silvex	85.4		P	40 - 150
Thiamethoxam	108		P	40 - 150
Tolfenpyrad	59.2		P	30 - 150
Triclopyr	114		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P435737

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	130		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P435768

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.4		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P436283

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	94.8		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P436015

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	94.6		P	85 - 106

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P435770

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.3		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P436092

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P435847

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436046

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440524	Chloride	105		P	90 - 110
2440730	Chloride	104		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436049

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440524	Sulfate	103		P	90 - 110
2440730	Sulfate	103		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435751

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440588	Ammonia-N	99.0	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435864

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440587	Ammonia-N	100	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435773

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440516	Kjeldahl Nitrogen	100	98.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435774

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440436	Kjeldahl Nitrogen	105	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436205

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440067	NO2NO3-N	101	99.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436261

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2438460	NO2NO3-N	98.5	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435710

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440540	Total-P	102	104	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435778

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440587	Total-P	109	109	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435915

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441328	Total-P	107	107	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P435653

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440340	PCB-1016	78.1	85.7	P/P	45 - 107
2440340	PCB-1260	78.4	88.8	P/P	40 - 112
2441048	Aldrin	63.9	65.3	P/P	24 - 81.0
2441048	Alpha-BHC	96.5	83.3	P/P	65 - 110
2441048	Alpha-Chlordane	91.1	76.7	P/P	43 - 119
2441048	Beta-BHC	83.7	89.6	P/P	54 - 165
2441048	Beta-Cyfluthrin	94.0	105	P/P	27 - 165
2441048	Bifenthrin	71.4	60.2	P/P	17 - 117
2441048	Carbophenothion	77.0	66.1	P/P	21 - 108
2441048	Chlorothalonil	11.8	12.1	P/P	10 - 255
2441048	Cis-Nonachlor	72.0	79.4	P/P	34 - 98.0
2441048	Cypermethrin	94.0	101	P/P	25 - 143
2441048	Dacthal	97.2	84.7	P/P	55 - 139
2441048	DDD-p,p'	59.8	64.8	P/P	30 - 109
2441048	DDE-p,p'	68.4	57.5	P/P	35 - 106
2441048	DDT-p,p'	58.6	61.1	P/P	41 - 101
2441048	Delta-BHC	150	117	P/P	58 - 165
2441048	Deltamethrin	119	118	P/P	10 - 194
2441048	Dichlobenil	50.7	52.3	P/P	22 - 114
2441048	Dicofol	86.9	76.9	P/P	17 - 133
2441048	Dieldrin	85.4	72.7	P/P	45 - 129
2441048	Endosulfan I	99.7	86.7	P/P	49 - 104
2441048	Endosulfan II	90.0	88.7	P/P	37 - 117
2441048	Endosulfan Sulfate	83.9	77.4	P/P	38 - 128
2441048	Endrin	89.0	76.2	P/P	35 - 116
2441048	Endrin Aldehyde	54.9	55.9	P/P	19 - 108
2441048	Endrin Ketone	96.9	102	P/P	44 - 134
2441048	Esfenvalerate	106	99.0	P/P	27 - 176
2441048	Ethalfuralin	78.3	63.7	P/P	49 - 100
2441048	Fenpropathrin	82.5	75.7	P/P	34 - 117
2441048	Gamma-BHC	119	88.7	P/P	59 - 129
2441048	Gamma-Chlordane	90.6	71.9	P/P	33 - 107
2441048	Heptachlor	85.0	67.2	P/P	37 - 94.0
2441048	Heptachlor Epoxide	94.2	70.6	P/P	38 - 118
2441048	Hexachlorobenzene	73.0	66.5	P/P	35 - 97.0
2441048	Kepone	119	116	P/P	10 - 221
2441048	Lambda-Cyhalothrin	96.9	107	P/P	23 - 190
2441048	Methoprene	50.1	53.5	P/P	21 - 109
2441048	Methoxychlor	115	97.9	P/P	46 - 118
2441048	MGK-264	64.3	63.9	P/P	39 - 122

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P435653

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441048	Mirex	73.5	71.6	P/P	25 - 90.0
2441048	Oxychlordane	81.6	66.7	P/P	42 - 100
2441048	Permethrin	80.1	99.1	P/P	33 - 181
2441048	Phenothrin	71.6	103	P/P	12 - 125
2441048	Piperonyl Butoxide	86.4	78.1	P/P	10 - 178
2441048	Prallethrin	80.3	82.0	P/P	24 - 122
2441048	Tau-Fluvalinate	103	100	P/P	13 - 151
2441048	Tetramethrin	84.7	93.5	P/P	16 - 172
2441048	Trans-Nonachlor	96.9	75.3	P/P	39 - 100
2441048	Triclosan Methyl	79.0	79.6	P/P	43 - 110
2441048	Trifluralin	74.0	70.2	P/P	45 - 94.0

Reference Method: EPA 8276

Batch ID: P435653

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440340	Chlordane	72.0	67.8	P/P	43 - 123
2440340	Toxaphene	82.9	76.9	P/P	27 - 156

Reference Method: EPA 8321B

Batch ID: P435496

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440366	Acesulfame K	88.0	87.9	P/P	40 - 150
2440366	AMPA	64.6	64.3	P/P	40 - 150
2440366	Endothall	155	156	F/F	40 - 150
2440366	Glufosinate	119	108	P/P	40 - 150
2440366	Glyphosate	115	96.5	P/P	40 - 150
2440366	Sucralose	96.9	108	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P435567

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440342	2,4,5-T	93.3	86.5	P/P	40 - 150
2440342	Acetaminophen	116	111	P/P	30 - 150
2440342	Acetamiprid	65.1	66.9	P/P	40 - 150
2440342	Afidopyropen	51.3	57.3	P/P	30 - 150
2440342	Bentazon	37.7	37.6	P/P	30 - 150
2440342	Benzovindiflupyr	83.3	80.2	P/P	40 - 150
2440342	Carbamazepine	67.4	65.1	P/P	40 - 150
2440342	Clothianidin	83.2	79.4	P/P	40 - 150
2440342	Dinotefuran	95.6	87.5	P/P	40 - 150
2440342	Diuron	56.3	56.0	P/P	40 - 150
2440342	Fenuron	57.0	55.5	P/P	40 - 150
2440342	Fluridone	44.9	39.9	P/F	40 - 150
2440342	Hydrocodone	59.4	55.5	P/P	40 - 150
2440342	Ibuprofen	50.8	60.8	P/P	40 - 150
2440342	Imidacloprid	116	108	P/P	40 - 150
2440342	Linuron	50.8	46.9	P/P	40 - 150
2440342	Mandestrobin	69.7	66.7	P/P	40 - 150
2440342	MCPP	91.5	85.3	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P435567

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440342	Naproxen	55.5	60.3	P/P	40 - 150
2440342	Primidone	75.1	68.6	P/P	40 - 150
2440342	Pyraclostrobin	81.2	77.0	P/P	40 - 150
2440342	Silvex	83.1	72.3	P/P	40 - 150
2440342	Thiamethoxam	82.7	78.2	P/P	40 - 150
2440342	Tolfenpyrad	60.0	61.2	P/P	30 - 150
2440342	Triclopyr	99.1	93.7	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P435737

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441446	2,4-D	93.5	90.8	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P435770

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441080	Fluoride	104	103	P/P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P436092

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2442786	Fluoride	100	99.6	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P435847

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440525	Organic Carbon	97.2	97.7	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P435606

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440539	Color (true)	0.617	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435617

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440433	Turbidity	2.28	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435618

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440586	Turbidity	3.77	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436046

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440524	Chloride	0.376	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436049

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440524	Sulfate	0.189	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435751

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440588	Ammonia-N	1.40	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435864

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440587	Ammonia-N	0.652	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435773

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440516	Kjeldahl Nitrogen	1.78	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435774

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440436	Kjeldahl Nitrogen	1.17	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436205

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440067	NO2NO3-N	1.01	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436261

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438460	NO2NO3-N	1.51	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435710

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440540	Total-P	2.28	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435778

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440587	Total-P	0.399	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435915

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441328	Total-P	0.327	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P435653

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440340	PCB-1016	9.27	Spike	P	0 - 25
2440340	PCB-1260	12.5	Spike	P	0 - 30
2441048	Aldrin	2.25	Spike	P	0 - 41
2441048	Alpha-BHC	14.6	Spike	P	0 - 25
2441048	Alpha-Chlordane	17.2	Spike	P	0 - 32
2441048	Beta-BHC	6.78	Spike	P	0 - 33
2441048	Beta-Cyfluthrin	11.5	Spike	P	0 - 43
2441048	Bifenthrin	17.0	Spike	P	0 - 52
2441048	Carbophenothion	15.2	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P435653

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441048	Chlorothalonil	2.54	Spike	P	0 - 82
2441048	Cis-Nonachlor	9.80	Spike	P	0 - 33
2441048	Cypermethrin	7.34	Spike	P	0 - 51
2441048	Dacthal	13.7	Spike	P	0 - 27
2441048	DDD-p,p'	7.97	Spike	P	0 - 39
2441048	DDE-p,p'	17.3	Spike	P	0 - 31
2441048	DDT-p,p'	4.24	Spike	P	0 - 29
2441048	Delta-BHC	25.0	Spike	P	0 - 35
2441048	Deltamethrin	0.276	Spike	P	0 - 100
2441048	Dichlobenil	3.01	Spike	P	0 - 40
2441048	Dicofol	12.3	Spike	P	0 - 37
2441048	Dieldrin	16.1	Spike	P	0 - 27
2441048	Endosulfan I	14.0	Spike	P	0 - 23
2441048	Endosulfan II	1.45	Spike	P	0 - 34
2441048	Endosulfan Sulfate	7.99	Spike	P	0 - 36
2441048	Endrin	15.5	Spike	P	0 - 45
2441048	Endrin Aldehyde	1.87	Spike	P	0 - 76
2441048	Endrin Ketone	5.33	Spike	P	0 - 43
2441048	Esfenvalerate	7.02	Spike	P	0 - 51
2441048	Ethalfuralin	20.6	Spike	P	0 - 22
2441048	Fenpropathrin	8.62	Spike	P	0 - 49
2441048	Gamma-BHC	29.3	Spike	F	0 - 28
2441048	Gamma-Chlordane	23.0	Spike	P	0 - 40
2441048	Heptachlor	23.4	Spike	P	0 - 29
2441048	Heptachlor Epoxide	28.6	Spike	P	0 - 33
2441048	Hexachlorobenzene	9.29	Spike	P	0 - 36
2441048	Kepone	3.04	Spike	P	0 - 85
2441048	Lambda-Cyhalothrin	9.76	Spike	P	0 - 55
2441048	Methoprene	6.67	Spike	P	0 - 53
2441048	Methoxychlor	15.8	Spike	P	0 - 50
2441048	MGK-264	0.739	Spike	P	0 - 43
2441048	Mirex	2.68	Spike	P	0 - 40
2441048	Oxychlordane	20.1	Spike	P	0 - 31
2441048	Permethrin	21.2	Spike	P	0 - 50
2441048	Phenothrin	36.3	Spike	P	0 - 58
2441048	Piperonyl Butoxide	10.1	Spike	P	0 - 100
2441048	Prallethrin	2.10	Spike	P	0 - 39
2441048	Tau-Fluvalinate	2.18	Spike	P	0 - 54
2441048	Tetramethrin	9.88	Spike	P	0 - 51
2441048	Trans-Nonachlor	25.1	Spike	P	0 - 39
2441048	Triclosan Methyl	0.814	Spike	P	0 - 31
2441048	Trifluralin	5.26	Spike	P	0 - 22

Reference Method: EPA 8276

Batch ID: P435653

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440340	Chlordane	5.59	Spike	P	0 - 28
2440340	Toxaphene	7.50	Spike	P	0 - 27

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P435496

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440366	Acesulfame K	0.157	Spike	P	0 - 30
2440366	AMPA	0.354	Spike	P	0 - 30
2440366	Endothall	0.668	Spike	P	0 - 30
2440366	Glufosinate	9.58	Spike	P	0 - 30
2440366	Glyphosate	17.4	Spike	P	0 - 30
2440366	Sucralose	10.5	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P435567

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440342	2,4,5-T	7.48	Spike	P	0 - 30
2440342	Acetaminophen	5.12	Spike	P	0 - 30
2440342	Acetamiprid	2.84	Spike	P	0 - 30
2440342	Afidopyropen	11.1	Spike	P	0 - 30
2440342	Bentazon	0.151	Spike	P	0 - 30
2440342	Benzovindiflupyr	3.79	Spike	P	0 - 30
2440342	Carbamazepine	3.44	Spike	P	0 - 30
2440342	Clothianidin	4.66	Spike	P	0 - 30
2440342	Dinotefuran	8.80	Spike	P	0 - 30
2440342	Diuron	0.585	Spike	P	0 - 30
2440342	Fenuron	2.57	Spike	P	0 - 30
2440342	Fluridone	11.8	Spike	P	0 - 30
2440342	Hydrocodone	6.74	Spike	P	0 - 30
2440342	Ibuprofen	17.9	Spike	P	0 - 30
2440342	Imazapyr	0.792	Spike	P	0 - 30
2440342	Imidacloprid	6.34	Spike	P	0 - 30
2440342	Linuron	8.07	Spike	P	0 - 30
2440342	Mandestrobin	4.45	Spike	P	0 - 30
2440342	MCPP	7.06	Spike	P	0 - 30
2440342	Naproxen	8.29	Spike	P	0 - 30
2440342	Primidone	8.95	Spike	P	0 - 30
2440342	Pyraclostrobin	5.32	Spike	P	0 - 30
2440342	Silvex	13.8	Spike	P	0 - 30
2440342	Thiamethoxam	5.57	Spike	P	0 - 30
2440342	Tolfenpyrad	2.01	Spike	P	0 - 30
2440342	Triclopyr	5.61	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P435737

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441446	2,4-D	2.97	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P435768

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

Reference Method: SM 2320 B-2011
Batch ID: P435768

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441080	Total Alkalinity	0.815	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P436283

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440475	TDS	1.94	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P435770

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441080	Fluoride	0.963	Spike	P	0 - 1.9

Reference Method: SM 4500-F- C-2011
Batch ID: P436092

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442786	Fluoride	0.525	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P435847

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440525	Organic Carbon	0.311	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2440601
Field Sample ID: 20030068

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	87.2	P	37 - 129
EPA 8270E	Decachlorobiphenyl	91.6	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	56.0	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	49.1	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	56.8	P	28 - 102
EPA 8276	PCNB	97.7	P	49 - 115

Lab Sample ID: 2440602
Field Sample ID: 20030594

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	79.9	P	37 - 129
EPA 8270E	Decachlorobiphenyl	110	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	57.8	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	59.7	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	50.0	P	28 - 102
EPA 8276	PCNB	95.0	P	49 - 115

Lab Sample ID: 2440604
Field Sample ID: 20030852

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	79.9	P	30 - 160
EPA 8321B	2,4-D-d3	105	P	30 - 160
EPA 8321B	Acetaminophen-d4	82.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	64.4	P	30 - 160
EPA 8321B	Diuron-d6	66.1	P	30 - 160
EPA 8321B	Endothall-d6	141	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	69.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	64.5	P	30 - 160
EPA 8321B	Primidone-d5	76.4	P	30 - 160
EPA 8321B	Sucralose-d6	106	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A121765
Included Lab Sample IDs: 2440604

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	107	108	P/P	60 - 160
Endothall	99.0	112	P/P	60 - 160
Glufosinate	111	127	P/P	60 - 160
Glyphosate	99.2	91.0	P/P	60 - 160

Reference Method: DEP SOP: NU-094-1
Run ID: A121796
Included Lab Sample IDs: 2440583, 2440585, 2440586

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.0	99.3	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A121800
Included Lab Sample IDs: 2440583, 2440585, 2440586

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	101	P/P	95 - 105
Turbidity	101	100	P/P	95 - 105

Reference Method: EPA 8321B
Run ID: A121824
Included Lab Sample IDs: 2440604

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	97.7	95.6	P/P	60 - 160
Sucralose	101	97.0	P/P	60 - 160

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A121852
Included Lab Sample IDs: 2440584, 2440588

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

Reference Method: SM 2320 B-2011
Run ID: A121863
Included Lab Sample IDs: 2440583, 2440585, 2440586

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	94.0	97.1	P/P	90 - 110
Total Alkalinity	97.1	95.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A121863
Included Lab Sample IDs: 2440583, 2440586

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	102	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A121874

Included Lab Sample IDs: 2440588

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	98.6	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A121893

Included Lab Sample IDs: 2440604

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4,5-T	76.4	83.6	P/P	50 - 150
Acetaminophen	111	110	P/P	60 - 160
Acetamiprid	114	112	P/P	50 - 150
Bentazon	121	123	P/P	50 - 160
Benzovindiflupyr	77.6	75.9	P/P	50 - 150
Carbamazepine	76.3	74.9	P/P	60 - 150
Clothianidin	118	120	P/P	60 - 150
Dinotefuran	117	116	P/P	50 - 150
Diuron	67.7	63.0	P/P	60 - 160
Fenuron	105	105	P/P	60 - 150
Fluridone	76.3	73.4	P/P	60 - 160
Hydrocodone	117	116	P/P	60 - 150
Ibuprofen	96.1	67.7	P/P	50 - 160
Imazapyr	107	98.8	P/P	50 - 150
Imidacloprid	111	107	P/P	60 - 150
Linuron	79.1	76.1	P/P	60 - 150
Mandestrobin	77.5	82.8	P/P	50 - 150
MCPP	74.0	81.3	P/P	50 - 150
Naproxen	115	80.2	P/P	50 - 160
Primidone	106	102	P/P	60 - 150
Pyraclostrobin	82.3	86.3	P/P	60 - 150
Silvex	67.9	70.1	P/P	50 - 150
Thiamethoxam	119	115	P/P	50 - 150
Tolfenpyrad	68.6	68.2	P/P	60 - 150
Triclopyr	88.7	80.6	P/P	50 - 150

Reference Method: SM 5310 B-2011

Run ID: A121902

Included Lab Sample IDs: 2440584, 2440587, 2440588

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	93.3	95.4	P/P	90 - 110
Organic Carbon	95.6	93.3	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A121913

Included Lab Sample IDs: 2440587

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.8	99.3	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A121918
Included Lab Sample IDs: 2440604

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Afidopyropen	80.5	67.8	P/P	50 - 150

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A121940
Included Lab Sample IDs: 2440584, 2440587, 2440588

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.8	101	P/P	90 - 110
Kjeldahl Nitrogen	97.1	98.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A121943
Included Lab Sample IDs: 2440587

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.5	100	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A121944
Included Lab Sample IDs: 2440604

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	89.4	115	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A121947
Included Lab Sample IDs: 2440584

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.2	100	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A121948
Included Lab Sample IDs: 2440583, 2440585, 2440586

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	103	102	P/P	90 - 110
Sulfate	104	103	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A121970
Included Lab Sample IDs: 2440601, 2440602

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	93.4		P	80 - 120
PCB-1260	93.6		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: SM 4500-F- C-2011

Run ID: A121987

Included Lab Sample IDs: 2440585

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	98.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A122029

Included Lab Sample IDs: 2440587

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	99.5	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A122040

Included Lab Sample IDs: 2440601, 2440602

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	96.0		P	80 - 120
Alpha-Chlordane	81.1		P	80 - 120
Beta-BHC	83.8		P	80 - 120
Beta-Cyfluthrin	93.4		P	80 - 120
Bifenthrin	108		P	80 - 120
Carbophenothion	109		P	80 - 120
Chlorothalonil	94.0		P	80 - 120
Cis-Nonachlor	91.2		P	80 - 120
Cypermethrin	87.6		P	80 - 120
Dacthal	98.2		P	80 - 120
DDD-p,p'	109		P	80 - 120
DDE-p,p'	107		P	80 - 120
DDT-p,p'	94.3		P	80 - 120
Delta-BHC	92.9		P	80 - 120
Deltamethrin	91.1		P	80 - 120
Dichlobenil	91.6		P	80 - 120
Dieldrin	113		P	80 - 120
Endosulfan I	81.7		P	80 - 120
Endosulfan II	99.2		P	80 - 120
Endosulfan Sulfate	104		P	80 - 120
Endrin	110		P	80 - 120
Endrin Aldehyde	104		P	80 - 120
Endrin Ketone	99.5		P	80 - 120
Esfenvalerate	89.7		P	80 - 120
Ethalfuralin	96.7		P	80 - 120
Fenpropathrin	102		P	80 - 120
Gamma-BHC	84.0		P	80 - 120
Gamma-Chlordane	82.2		P	80 - 120
Heptachlor	110		P	80 - 120
Heptachlor Epoxide	85.8		P	80 - 120
Hexachlorobenzene	87.2		P	80 - 120
Kepone	92.9		P	80 - 120
Lambda-Cyhalothrin	93.7		P	80 - 120
Methoprene	96.2		P	80 - 120
MGK-264	96.1		P	80 - 120
Mirex	104		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A122040

Included Lab Sample IDs: 2440601, 2440602

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Oxychlordane	84.8		P	80 - 120
Permethrin	101		P	80 - 120
Phenothrin	90.2		P	80 - 120
Piperonyl Butoxide	92.5		P	80 - 120
Prallethrin	92.9		P	80 - 120
Tau-Fluvalinate	92.6		P	80 - 120
Tetramethrin	97.6		P	80 - 120
Trans-Nonachlor	87.9		P	80 - 120
Triclosan Methyl	107		P	80 - 120
Trifluralin	103		P	80 - 120

Reference Method: EPA 8270E

Run ID: A122041

Included Lab Sample IDs: 2440601, 2440602

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dicofol	93.7		P	80 - 120
Methoxychlor	96.9		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A122043

Included Lab Sample IDs: 2440584, 2440588

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

Reference Method: EPA 8276

Run ID: A122071

Included Lab Sample IDs: 2440601, 2440602

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	92.3		P	80 - 120
Toxaphene	95.2		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	MS
						SMP	
DEP SOP: NU-094-1	Color (true)	98.8				0.617	
EPA 180.1 Rev. 2.0	Turbidity	105				2.28	
	Turbidity	105				3.77	
EPA 300.0 Rev. 2.1	Chloride	105	105	104		0.376	
	Sulfate	107	103	103		0.189	
EPA 350.1 Rev. 2.0	Ammonia-N	102	99.0	101			1.40
	Ammonia-N	100	100	101			0.652
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	95.7	100	98.2			1.78
	Kjeldahl Nitrogen	96.2	105	103			1.17
EPA 353.2 Rev. 2.0	NO2NO3-N	98.5	101	99.0			1.01
	NO2NO3-N	97.5	98.5	100			1.51
EPA 365.1 Rev. 2.0	Total-P	101	102	104			2.28
	Total-P	107	109	109			0.399
	Total-P	105	107	107			0.327
EPA 8270E	Aldrin	52.2	63.9	65.3			2.25
	Alpha-BHC	77.4	96.5	83.3			14.6
	Alpha-Chlordane	88.3	91.1	76.7			17.2
	Beta-BHC	73.8	83.7	89.6			6.78
	Beta-Cyfluthrin	77.8	94.0	105			11.5
	Bifenthrin	54.3	71.4	60.2			17.0
	Carbophenothion	50.2	77.0	66.1			15.2
	Chlorothalonil	107	11.8	12.1			2.54
	Cis-Nonachlor	70.4	72.0	79.4			9.80
	Cypermethrin	69.5	94.0	101			7.34
	Dacthal	99.0	97.2	84.7			13.7
	DDD-p,p'	61.9	59.8	64.8			7.97
	DDE-p,p'	68.2	68.4	57.5			17.3
	DDT-p,p'	56.4	58.6	61.1			4.24
	Delta-BHC	103	150	117			25.0
	Deltamethrin	76.9	119	118			0.276
	Dichlobenil	74.7	50.7	52.3			3.01
	Dicofol	67.4	86.9	76.9			12.3
	Dieldrin	74.6	85.4	72.7			16.1
	Endosulfan I	76.2	99.7	86.7			14.0
	Endosulfan II	93.6	90.0	88.7			1.45
	Endosulfan Sulfate	83.1	83.9	77.4			7.99
	Endrin	77.6	89.0	76.2			15.5
	Endrin Aldehyde	62.1	54.9	55.9			1.87
	Endrin Ketone	94.7	96.9	102			5.33
	Esfenvalerate	64.6	106	99.0			7.02
	Ethalfuralin	73.9	78.3	63.7			20.6
	Fenpropathrin	71.8	82.5	75.7			8.62
	Gamma-BHC	79.0	119	88.7			29.3
	Gamma-Chlordane	73.4	90.6	71.9			23.0
	Heptachlor	56.5	85.0	67.2			23.4
	Heptachlor Epoxide	74.6	94.2	70.6			28.6
	Hexachlorobenzene	78.3	73.0	66.5			9.29
	Kepone	140	119	116			3.04
	Lambda-Cyhalothrin	56.8	96.9	107			9.76
	Methoprene	48.4	50.1	53.5			6.67
	Methoxychlor	74.2	115	97.9			15.8
	MGK-264	60.6	64.3	63.9			0.739
	Mirex	64.9	73.5	71.6			2.68
	Oxychlordane	70.1	81.6	66.7			20.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	PCB-1016	77.3	78.1	85.7		9.27
	PCB-1260	89.1	78.4	88.8		12.5
	Permethrin	73.3	80.1	99.1		21.2
	Phenothrin	55.1	71.6	103		36.3
	Piperonyl Butoxide	81.5	86.4	78.1		10.1
	Prallethrin	71.7	80.3	82.0		2.10
	Tau-Fluvalinate	68.8	103	100		2.18
	Tetramethrin	65.5	84.7	93.5		9.88
	Trans-Nonachlor	71.0	96.9	75.3		25.1
	Triclosan Methyl	66.1	79.0	79.6		0.814
	Trifluralin	69.8	74.0	70.2		5.26
EPA 8276	Chlordane	92.2	72.0	67.8		5.59
	Toxaphene	99.8	82.9	76.9		7.50
EPA 8321B	2,4-D	130	93.5	90.8		2.97
	2,4,5-T	119	93.3	86.5		7.48
	Acesulfame K	95.9	88.0	87.9		0.157
	Acetaminophen	98.9	116	111		5.12
	Acetamiprid	92.1	65.1	66.9		2.84
	Afidopyropen	48.0	51.3	57.3		11.1
	AMPA	76.6	64.6	64.3		0.354
	Bentazon	93.0	37.7	37.6		0.151
	Benzovindiflupyr	91.2	83.3	80.2		3.79
	Carbamazepine	95.8	67.4	65.1		3.44
	Clothianidin	110	83.2	79.4		4.66
	Dinotefuran	116	95.6	87.5		8.80
	Diuron	90.0	56.3	56.0		0.585
	Endothall	99.7	155	156		0.668
	Fenuron	98.1	57.0	55.5		2.57
	Fluridone	79.7	44.9	39.9		11.8
	Glufosinate	126	119	108		9.58
	Glyphosate	72.5	115	96.5		17.4
	Hydrocodone	97.7	59.4	55.5		6.74
	Ibuprofen	74.8	50.8	60.8		17.9
	Imazapyr	98.0				0.792
	Imidacloprid	96.6	116	108		6.34
	Linuron	71.1	50.8	46.9		8.07
	Mandestrobin	90.9	69.7	66.7		4.45
	MCPP	110	91.5	85.3		7.06
	Naproxen	70.8	55.5	60.3		8.29
	Primidone	97.3	75.1	68.6		8.95
	Pyraclostrobin	88.9	81.2	77.0		5.32
	Silvex	85.4	83.1	72.3		13.8
	Sucralose	99.3	96.9	108		10.5
	Thiamethoxam	108	82.7	78.2		5.57
	Tolfenpyrad	59.2	60.0	61.2		2.01
	Triclopyr	114	99.1	93.7		5.61
SM 2320 B-2011	Total Alkalinity	96.4			0.815	
SM 2540 C-2015	TDS	94.8			1.94	
SM 2540 D-2015	TSS	94.6				
SM 4500-F- C-2011	Fluoride	99.3	104	103		0.963
	Fluoride	100	100	99.6		0.525
SM 5310 B-2011	Organic Carbon	96.0	97.2	97.7		0.311

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2440583, 2440585, 2440586
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2440583, 2440585, 2440586
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2440583, 2440585, 2440586
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2440583, 2440585, 2440586
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2440584, 2440587, 2440588
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2440584, 2440587, 2440588
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2440584, 2440587, 2440588
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2440584, 2440587, 2440588
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2440601, 2440602
EPA 8270E	PCBs in water matrices by GC/MS/MS	2440601, 2440602
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2440601, 2440602
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2440604
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2440583, 2440585, 2440586
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2440583, 2440585, 2440586
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2440583, 2440585, 2440586
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2440583, 2440585, 2440586
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2440584, 2440587, 2440588

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	09/27/2023			09/27/2023 15:29	Alexis Price	2440583, 2440585
	09/27/2023			09/27/2023 15:30	Alexis Price	2440586
	09/27/2023			09/27/2023 13:49	Alexis Price	2440583
EPA 180.1 Rev. 2.0	09/27/2023			09/27/2023 13:50	Alexis Price	2440585
	09/27/2023			09/27/2023 13:53	Alexis Price	2440586
	09/27/2023			10/05/2023 00:47	James L Waggeberby	2440583
EPA 300.0 Rev. 2.1	09/27/2023			10/05/2023 01:02	James L Waggeberby	2440585
	09/27/2023			10/05/2023 01:17	James L Waggeberby	2440586
	09/27/2023			09/29/2023 12:06	Khloe J Berg	2440588
EPA 350.1 Rev. 2.0	09/27/2023			09/29/2023 12:10	Khloe J Berg	2440584
	09/27/2023			10/03/2023 10:23	Khloe J Berg	2440587
	09/27/2023	10/03/2023 09:32	Samantha L Bates	10/04/2023 10:11	Samantha L Bates	2440587
EPA 351.2 Rev. 2.0	09/27/2023	10/03/2023 09:32	Samantha L Bates	10/04/2023 10:38	Samantha L Bates	2440584
	09/27/2023	10/03/2023 09:32	Samantha L Bates	10/04/2023 10:40	Samantha L Bates	2440588
	09/27/2023			10/09/2023 13:24	Fadila Guebre	2440587
EPA 353.2 Rev. 2.0	09/27/2023			10/09/2023 14:23	Anna M. Plaviak	2440584
	09/27/2023			10/09/2023 14:24	Anna M. Plaviak	2440588
	09/27/2023	09/29/2023 10:00	Simonne.V. Calhoun	09/29/2023 14:26	Chandler E Cox	2440588
EPA 365.1 Rev. 2.0	09/27/2023	10/02/2023 13:21	Adam P Silver	10/04/2023 10:54	Chandler E Cox	2440587
	09/27/2023	10/04/2023 10:15	Adam P Silver	10/04/2023 14:34	James L Waggeberby	2440584
	09/27/2023	10/02/2023 08:00	Fe-Val Siddell	10/04/2023 02:34	Julie Wi	2440601
EPA 8270E	09/27/2023	10/02/2023 08:00	Fe-Val Siddell	10/04/2023 03:04	Julie Wi	2440602
	09/27/2023	10/02/2023 08:00	Fe-Val Siddell	10/04/2023 03:51	Julie Wi	2440601
	09/27/2023	10/02/2023 08:00	Fe-Val Siddell	10/04/2023 04:24	Julie Wi	2440602
EPA 8276	09/27/2023	10/02/2023 08:00	Fe-Val Siddell	10/05/2023 05:34	Julie Wi	2440601
	09/27/2023	10/02/2023 08:00	Fe-Val Siddell	10/05/2023 06:05	Julie Wi	2440602
	09/27/2023	10/02/2023 08:00	Fe-Val Siddell	10/06/2023 11:31	Arthur Maknenko	2440601
EPA 8321B	09/27/2023	10/02/2023 08:00	Fe-Val Siddell	10/06/2023 12:28	Arthur Maknenko	2440602
	09/27/2023	09/27/2023 12:00	Hana Lee	09/27/2023 17:59	Tae K Lee	2440604
	09/27/2023	09/27/2023 12:00	Hana Lee	09/28/2023 02:39	Tae K Lee	2440604
	09/27/2023	09/29/2023 09:00	Hoor Shaik	09/29/2023 23:49	Juyoung Kim	2440604
	09/27/2023	09/29/2023 09:00	Hoor Shaik	10/03/2023 02:30	Juyoung Kim	2440604
	09/27/2023	10/02/2023 13:15	Hoor Shaik	10/03/2023 22:45	Juyoung Kim	2440604
SM 2320 B-2011	09/27/2023			09/29/2023 22:10	Adam P Silver	2440583
	09/27/2023			09/29/2023 22:24	Adam P Silver	2440586
	09/27/2023			09/30/2023 02:06	Adam P Silver	2440585
SM 2540 C-2015	09/27/2023			10/02/2023 15:37	Yijie Li	2440583, 2440585, 2440586
SM 2540 D-2015	09/27/2023			10/02/2023 15:27	Yijie Li	2440583, 2440585, 2440586
SM 4500-F- C-2011	09/27/2023			09/29/2023 22:10	Adam P Silver	2440583
	09/27/2023			09/29/2023 22:24	Adam P Silver	2440586

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 4500-F- C-2011	09/27/2023			10/06/2023 04:54	Adam P Silver	2440585
SM 5310 B-2011	09/27/2023			10/02/2023 18:16	Elise M. Gillis	2440588
	09/27/2023			10/02/2023 22:04	Elise M. Gillis	2440584
	09/27/2023			10/02/2023 22:18	Elise M. Gillis	2440587