

Chemical Analysis Report

SO-DIST-2023-02-06-01

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

Event Description: **2023 SMP: Burnt Store & More**
Request ID: **RQ-2023-01-30-22**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 314
Fort Myers, FL 33901-3381
Attn: William Mullen

For additional information please contact
Colin Wright, Ph.D.
Chris Bowen, B.S.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
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Phone (850) 245-8085

Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant

Date Certified: 02-MAR-2023 09:25



NON-CONFORMANCE REPORT INCLUDED

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: Yucca Pen Marine @ N of Old Burntstore

Collection Date/Time: 02/02/2023 09:55

Field ID: G2SD0015

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2384963	EPA 180.1 Rev. 2.0	Turbidity	0.50	I Q	NTU	P425477	
	SM 2320 B-2011	Total Alkalinity	220		mg CaCO3/L	P425709	
	SM 2540 D-2015	TSS	2	U	mg/L	P425999	
	SM 4500-F- C-2011	Fluoride	0.24		mg F/L	P426396	
2384964	EPA 350.1 Rev. 2.0	Ammonia-N	0.01		mg N/L	P425770	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.64		mg N/L	P425748	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	I	mg N/L	P425518	
	EPA 365.1 Rev. 2.0	Total-P	0.026		mg P/L	P425542	
	SM 5310 B-2011	Organic Carbon	9.1		mg C/L	P425587	

Ref. Method and Comment:

EPA 180.1 Rev. 2.0: The sample expired prior to receipt.

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

Sample Location: Ford Canal at Gallee Way

Collection Date/Time: 02/02/2023 10:50

Field ID: G3SD0136

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2384965	DEP SOP: NU-094-1	Color (true)	45	Q	PCU	P425480	
	EPA 180.1 Rev. 2.0	Turbidity	1.8	Q	NTU	P425477	
	EPA 300.0 Rev. 2.1	Chloride	75		mg Cl/L	P426091	
		Sulfate	25		mg SO4/L	P426094	
	SM 2320 B-2011	Total Alkalinity	221		mg CaCO3/L	P425709	
	SM 2540 C-2015	TDS	397		mg/L	P426040	
	SM 2540 D-2015	TSS	4	I	mg/L	P425998	
	SM 4500-F- C-2011	Fluoride	0.20		mg F/L	P426066	
2384966	EPA 350.1 Rev. 2.0	Ammonia-N	0.019		mg N/L	P425863	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.68		mg N/L	P426075	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.064		mg N/L	P425601	
	EPA 365.1 Rev. 2.0	Total-P	0.17		mg P/L	P425498	
	SM 5310 B-2011	Organic Carbon	9.6		mg C/L	P425587	
2384974	EPA 8321B	2,4-D	0.0020	U	ug/L	P425449	
		Acesulfame K	0.10	I	ug/L	P425294	MS
		2,4,5-T	0.0040	U	ug/L	P425449	
		AMPA	0.34	I	ug/L	P425294	
		Acetaminophen	0.0080	U	ug/L	P425449	
		Acetamiprid	0.0020	U	ug/L	P425449	
		Endothall	0.25	U	ug/L	P425294	
		Glufosinate	0.10	U	ug/L	P425294	
		Glyphosate	1.4		ug/L	P425294	
		Afidopyropen	0.0020	U	ug/L	P425449	
		Bentazon	0.17		ug/L	P425449	
		Sucralose	0.61		ug/L	P425294	
		Benzovindiflupyr	0.0020	U	ug/L	P425449	
		Carbamazepine	9.4E-04	I	ug/L	P425449	
		Clothianidin	0.0020	U	ug/L	P425449	
		Dinotefuran	0.0020	U	ug/L	P425449	
		Diuron	0.0020	U	ug/L	P425449	
		Fenuron	0.032	U	ug/L	P425449	
		Fluridone	8.0E-04	U	ug/L	P425449	
		Imazapyr	0.029		ug/L	P425449	
		Hydrocodone	0.0020	U	ug/L	P425449	
		Ibuprofen	0.080	U	ug/L	P425449	RPD
		Imidacloprid	0.016		ug/L	P425449	
		Linuron	0.0040	U	ug/L	P425449	
		Mandestrobin	0.0020	U	ug/L	P425449	
		MCPP	0.0020	U	ug/L	P425449	
		Naproxen	0.0080	U	ug/L	P425449	
		Primidone	0.0040	U	ug/L	P425449	
		Pyraclostrobin	0.0020	U	ug/L	P425449	
		Silvex	0.0040	U	ug/L	P425449	
		Thiamethoxam	0.0020	U	ug/L	P425449	

Field ID: G3SD0136

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2384974	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P425449	
		Triclopyr	0.0040	U	ug/L	P425449	RPD

Ref. Method and Comment:
DEP SOP: NU-094-1: The sample expired prior to receipt.
EPA 180.1 Rev. 2.0: The sample expired prior to receipt.
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: FB

Collection Date/Time: 02/02/2023 11:00

Field ID: FB_02022023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2384967	DEP SOP: NU-094-1	Color (true)	2.5	UQ	PCU	P425480	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	UQ	NTU	P425477	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P426091	
		Sulfate	0.20	U	mg SO4/L	P426094	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P425709	
	SM 2540 C-2015	TDS	15	U	mg/L	P426040	
	SM 2540 D-2015	TSS	2	U	mg/L	P425998	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P426066	
2384968	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P425863	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P426075	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P425601	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P425498	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P425587	

Ref. Method and Comment:

DEP SOP: NU-094-1: The sample expired prior to receipt.

EPA 180.1 Rev. 2.0: The sample expired prior to receipt.

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

Sample Location: Manuel Branch @ Broadway

Collection Date/Time: 02/02/2023 12:45

Field ID: G3SD0078

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2384973	EPA 8270E	Aldrin	0.68	U	ng/L	P425379	
		Alpha-BHC	0.10	U	ng/L	P425379	
		Alpha-Chlordane	0.21	U	ng/L	P425379	
		PCB-1016	2.1	U	ng/L	P425379	
		Beta-BHC	0.13	I	ng/L	P425379	
		PCB-1221	2.1	U	ng/L	P425379	
		Beta-Cyfluthrin	1.3	U	ng/L	P425379	
		PCB-1232	2.1	U	ng/L	P425379	
		Bifenthrin	0.52	U	ng/L	P425379	
		PCB-1242	2.1	U	ng/L	P425379	
		Carbophenothion	0.94	U	ng/L	P425379	
		PCB-1248	2.1	U	ng/L	P425379	
		Chlorothalonil	3.7	U	ng/L	P425379	
		PCB-1254	2.1	U	ng/L	P425379	
		Cis-Nonachlor	0.21	U	ng/L	P425379	
		PCB-1260	2.1	U	ng/L	P425379	
		Cypermethrin	1.6	U	ng/L	P425379	
		Dacthal	0.16	U	ng/L	P425379	
		DDD-p,p'	0.26	U	ng/L	P425379	
		DDE-p,p'	0.21	U	ng/L	P425379	
		DDT-p,p'	0.26	U	ng/L	P425379	
		Delta-BHC	0.42	U	ng/L	P425379	
		Deltamethrin	1.3	U	ng/L	P425379	
		Dichlobenil	0.26	U	ng/L	P425379	
		Dicofol	1.3	U	ng/L	P425379	
		Dieldrin	0.65	I	ng/L	P425379	
		Endosulfan I	0.42	U	ng/L	P425379	
		Endosulfan II	0.42	U	ng/L	P425379	
		Endosulfan Sulfate	0.31	U	ng/L	P425379	
		Endrin	0.42	U	ng/L	P425379	
		Endrin Aldehyde	0.78	U	ng/L	P425379	
		Endrin Ketone	0.42	U	ng/L	P425379	
		Esfenvalerate	0.78	U	ng/L	P425379	
		Ethalfuralin	0.16	U	ng/L	P425379	
		Fenpropathrin	0.26	U	ng/L	P425379	
		Gamma-BHC	0.13	U	ng/L	P425379	
		Gamma-Chlordane	0.21	U	ng/L	P425379	
		Heptachlor	0.21	U	ng/L	P425379	
		Heptachlor Epoxide	0.26	U	ng/L	P425379	
		Hexachlorobenzene**	1.0	U	ng/L	P425379	
		Kepone	5.2	U	ng/L	P425379	
		Lambda-Cyhalothrin	0.78	U	ng/L	P425379	
		Methoprene	0.78	U	ng/L	P425379	
		Methoxychlor	0.31	U	ng/L	P425379	

Field ID: G3SD0078

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2384973	EPA 8270E	MGK-264	0.21	U	ng/L	P425379	
		Mirex	0.36	U	ng/L	P425379	
		Oxychlordane	0.31	U	ng/L	P425379	
		Permethrin	1.7	U	ng/L	P425379	
		Phenothrin	0.94	U	ng/L	P425379	
		Piperonyl Butoxide	0.50	I	ng/L	P425379	
		Prallethrin	2.1	U	ng/L	P425379	
		Tau-Fluvalinate	0.26	U	ng/L	P425379	
		Tetramethrin	0.78	U	ng/L	P425379	
		Trans-Nonachlor	0.21	U	ng/L	P425379	
		Triclosan Methyl	0.16	U	ng/L	P425379	
		Trifluralin	0.21	U	ng/L	P425379	
	EPA 8276	Chlordane	2.1	U	ng/L	P425379	
		Toxaphene	16	U	ng/L	P425379	

Non-Conformance Report

NCR ID: 9740

Event(s)

SO-DIST-2023-02-06-01

Job(s)

Sample(s)

Test(s)

NCR Type: SHIPPING/RECEIVING

NCR Category: Samples arrived late

Observation: Samples arrived late, samples received within the acceptable temperature range.

Resolution: Samples will be qualified as appropriate.
Samples logged in following the SMP protocol.

Authorized by/Date: Kyle Klug 2/9/2023

The Non-Conformance Report details exceptions or problems encountered with the events/jobs/samples/test.
Please address questions to:

Chemistry	Colin Wright	(850) 245-8085
Biology	Cheryl Swanson	(850) 245-8177

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P425480

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P425477

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426091

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426094

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425770

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425863

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425748

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426075

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425518

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425601

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425498

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425542

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

Reference Method: EPA 8270E
Batch ID: P425379

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
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	3.6	U	ng/L
Chlorothalonil	3.6	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P425379

Component	Result	Code	Units
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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P425379

Component	Result	Code	Units
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
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: P425379

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

Reference Method: EPA 8321B

Batch ID: P425294

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: P425449

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P425449

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: SM 2320 B-2011

Batch ID: P425709

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

Reference Method: SM 2540 C-2015

Batch ID: P426040

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P425998

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P425999

Component	Result	Code	Units
TSS	2	U	mg/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 4500-F- C-2011
Batch ID: P426066

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P426396

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P425587

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: P425480

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: P425477

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426091

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	92.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426094

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425770

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425863

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425748

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426075

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	98.3		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425518

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425601

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425498

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425542

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

Reference Method: EPA 8270E
Batch ID: P425379

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	49.7		P	10 - 92.0
Alpha-BHC	89.9		P	75 - 107
Alpha-Chlordane	83.9		P	50 - 108
Beta-BHC	111		P	36 - 138
Beta-Cyfluthrin	77.3		P	20 - 161
Bifenthrin	46.2		P	10 - 119
Carbophenothion	69.6		P	19 - 94.0
Chlorothalonil	116		P	26 - 186
Cis-Nonachlor	67.9		P	42 - 119
Cypermethrin	75.8		P	22 - 150
Dacthal	102		P	72 - 119
DDD-p,p'	89.7		P	45 - 107
DDE-p,p'	82.3		P	48 - 106
DDT-p,p'	68.3		P	48 - 110
Delta-BHC	109		P	54 - 140
Deltamethrin	74.5		P	22 - 189
Dichlobenil	78.2		P	36 - 117
Dicofol	79.9		P	46 - 155
Dieldrin	79.3		P	54 - 110
Endosulfan I	84.6		P	59 - 105
Endosulfan II	82.4		P	51 - 118
Endosulfan Sulfate	114		P	57 - 121
Endrin	89.2		P	10 - 120
Endrin Aldehyde	86.9		P	34 - 118
Endrin Ketone	105		P	69 - 177
Esfenvalerate	81.3		P	23 - 168
Ethalfuralin	66.8		P	49 - 99.0
Fenpropathrin	62.7		P	34 - 117
Gamma-BHC	97.2		P	72 - 117
Gamma-Chlordane	69.4		P	43 - 106
Heptachlor	66.3		P	41 - 98.0
Heptachlor Epoxide	85.3		P	57 - 106
Hexachlorobenzene	62.2		P	36 - 99.0
Kepone	188		P	16 - 215

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P425379

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Lambda-Cyhalothrin	60.7		P	21 - 177
Methoprene	59.7		P	10 - 119
Methoxychlor	87.0		P	60 - 112
MGK-264	91.1		P	26 - 122
Mirex	58.9		P	10 - 169
Oxychlordane	77.9		P	43 - 105
PCB-1016	71.3		P	48 - 112
PCB-1260	68.5		P	44 - 118
Permethrin	65.3		P	24 - 148
Phenothrin	52.8		P	10 - 106
Piperonyl Butoxide	109		P	10 - 139
Prallethrin	90.5		P	17 - 109
Tau-Fluvalinate	69.3		P	13 - 131
Tetramethrin	89.7		P	10 - 132
Trans-Nonachlor	78.7		P	44 - 106
Triclosan Methyl	84.9		P	59 - 109
Trifluralin	66.0		P	44 - 101

Reference Method: EPA 8276
Batch ID: P425379

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	82.5		P	61 - 116
Toxaphene	94.9		P	48 - 124

Reference Method: EPA 8321B
Batch ID: P425294

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	63.5		P	40 - 150
AMPA	104		P	40 - 150
Endothall	92.5		P	40 - 150
Glufosinate	113		P	40 - 150
Glyphosate	106		P	40 - 150
Sucralose	91.1		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P425449

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	92.4		P	40 - 150
2,4,5-T	81.5		P	40 - 150
Acetaminophen	92.5		P	30 - 150
Acetamiprid	72.2		P	40 - 150
Afidopyropen	62.8		P	30 - 150
Bentazon	96.2		P	30 - 150
Benzovindiflupyr	86.5		P	40 - 150
Carbamazepine	84.7		P	40 - 150
Clothianidin	88.6		P	40 - 150
Dinotefuran	101		P	40 - 150
Diuron	77.9		P	40 - 150
Fenuron	100		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P425449

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluridone	79.3		P	40 - 150
Hydrocodone	96.3		P	40 - 150
Ibuprofen	76.2		P	40 - 150
Imazapyr	89.2		P	40 - 150
Imidacloprid	87.6		P	40 - 150
Linuron	82.5		P	40 - 150
Mandestrobin	97.4		P	40 - 150
MCPP	105		P	40 - 150
Naproxen	75.0		P	40 - 150
Primidone	89.2		P	40 - 150
Pyraclostrobin	77.0		P	40 - 150
Silvex	70.6		P	40 - 150
Thiamethoxam	93.5		P	40 - 150
Tolfenpyrad	42.5		P	30 - 150
Triclopyr	81.8		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P425709

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.9		P	94 - 106

Reference Method: SM 2540 C-2015

Batch ID: P426040

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	96.3		P	90 - 110

Reference Method: SM 2540 D-2015

Batch ID: P425998

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	93.1		P	85 - 106

Reference Method: SM 2540 D-2015

Batch ID: P425999

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	89.4		P	85 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P426066

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	96 - 104

Reference Method: SM 4500-F- C-2011

Batch ID: P426396

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	96 - 104

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P425587

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426091

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383815	Chloride	94.4		P	90 - 110
2385056	Chloride	94.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426094

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383815	Sulfate	103		P	90 - 110
2385056	Sulfate	95.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425770

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384857	Ammonia-N	105	105	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425863

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384749	Ammonia-N	99.4	96.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425748

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384956	Kjeldahl Nitrogen	92.5	97.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426075

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384966	Kjeldahl Nitrogen	99.5	95.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425518

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384855	NO2NO3-N	106	108	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425601

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384966	NO2NO3-N	103	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425498

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384949	Total-P	106	106	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P425542

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2385263	Total-P	100	103	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P425379

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384920	Aldrin	45.7	49.8	P/P	20 - 82.0
2384920	Alpha-BHC	87.8	87.6	P/P	71 - 109
2384920	Alpha-Chlordane	93.2	90.3	P/P	42 - 106
2384920	Beta-BHC	123	112	P/P	69 - 180
2384920	Beta-Cyfluthrin	88.7	84.1	P/P	18 - 175
2384920	Bifenthrin	53.8	60.8	P/P	21 - 128
2384920	Carbophenothion	82.6	83.4	P/P	10 - 126
2384920	Chlorothalonil	112	117	P/P	10 - 300
2384920	Cis-Nonachlor	76.2	71.4	P/P	34 - 106
2384920	Cypermethrin	66.1	69.3	P/P	22 - 158
2384920	Dacthal	90.7	91.1	P/P	54 - 116
2384920	DDD-p,p'	92.2	87.4	P/P	34 - 107
2384920	DDE-p,p'	88.7	87.0	P/P	33 - 110
2384920	DDT-p,p'	60.7	61.6	P/P	50 - 122
2384920	Delta-BHC	110	111	P/P	77 - 193
2384920	Deltamethrin	46.5	77.8	P/P	10 - 195
2384920	Dichlobenil	63.1	63.9	P/P	25 - 113
2384920	Dicofol	75.0	76.1	P/P	38 - 247
2384920	Dieldrin	81.4	79.0	P/P	45 - 118
2384920	Endosulfan I	68.3	75.1	P/P	51 - 106
2384920	Endosulfan II	70.2	75.0	P/P	37 - 122
2384920	Endosulfan Sulfate	121	112	P/P	43 - 132
2384920	Endrin	95.7	90.2	P/P	29 - 101
2384920	Endrin Aldehyde	79.9	75.5	P/P	19 - 110
2384920	Endrin Ketone	102	97.9	P/P	60 - 140
2384920	Esfenvalerate	97.0	101	P/P	26 - 199
2384920	Ethalfuralin	63.2	64.6	P/P	45 - 99.0
2384920	Fenpropathrin	69.5	69.0	P/P	35 - 120
2384920	Gamma-BHC	78.1	83.6	P/P	63 - 128
2384920	Gamma-Chlordane	77.1	76.0	P/P	40 - 104
2384920	Heptachlor	53.9	66.5	P/P	36 - 97.0
2384920	Heptachlor Epoxide	66.8	75.6	P/P	49 - 184
2384920	Hexachlorobenzene	63.7	65.6	P/P	39 - 96.0
2384920	Kepone	130	133	P/P	10 - 217
2384920	Lambda-Cyhalothrin	58.1	68.2	P/P	21 - 193
2384920	Methoprene	74.8	77.9	P/P	20 - 106
2384920	Methoxychlor	88.3	86.5	P/P	53 - 118
2384920	MGK-264	75.8	77.5	P/P	40 - 118
2384920	Mirex	50.5	53.3	P/P	26 - 92.0
2384920	Oxychlordane	64.3	69.3	P/P	44 - 99.0
2384920	Permethrin	73.7	74.1	P/P	33 - 182
2384920	Phenothrin	60.4	58.9	P/P	10 - 129
2384920	Piperonyl Butoxide	111	107	P/P	10 - 211
2384920	Prallethrin	97.8	90.3	P/P	24 - 113
2384920	Tau-Fluvalinate	87.7	92.5	P/P	14 - 149
2384920	Tetramethrin	90.8	90.8	P/P	17 - 151

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P425379

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384920	Trans-Nonachlor	63.9	75.6	P/P	42 - 102
2384920	Triclosan Methyl	81.5	90.3	P/P	48 - 108
2384920	Trifluralin	59.3	64.3	P/P	47 - 96.0
2384926	PCB-1016	79.5	70.4	P/P	46 - 111
2384926	PCB-1260	73.3	64.8	P/P	45 - 114

Reference Method: EPA 8276

Batch ID: P425379

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384926	Chlordane	102	95.1	P/P	53 - 126
2384926	Toxaphene	137	148	P/P	56 - 211

Reference Method: EPA 8321B

Batch ID: P425294

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384317	Acesulfame K	165	176	F/F	40 - 150
2384317	AMPA	80.7	77.8	P/P	40 - 150
2384317	Endothall	115	114	P/P	40 - 150
2384317	Glufosinate	76.0	73.1	P/P	40 - 150
2384317	Glyphosate	95.3	88.1	P/P	40 - 150
2384317	Sucralose	97.4	95.1	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P425449

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384635	2,4-D	103	88.3	P/P	40 - 150
2384635	2,4,5-T	96.7	85.1	P/P	40 - 150
2384635	Acetaminophen	113	99.5	P/P	30 - 150
2384635	Acetamiprid	74.8	71.9	P/P	40 - 150
2384635	Afidopyropen	82.1	65.2	P/P	30 - 150
2384635	Bentazon	119	101	P/P	30 - 150
2384635	Benzovindiflupyr	94.6	88.5	P/P	40 - 150
2384635	Carbamazepine	78.2	68.7	P/P	40 - 150
2384635	Clothianidin	113	93.0	P/P	40 - 150
2384635	Dinotefuran	129	116	P/P	40 - 150
2384635	Diuron	67.0	62.4	P/P	40 - 150
2384635	Fenuron	93.2	84.7	P/P	40 - 150
2384635	Fluridone	86.4	68.0	P/P	40 - 150
2384635	Hydrocodone	115	108	P/P	40 - 150
2384635	Ibuprofen	103	64.4	P/P	40 - 150
2384635	Imazapyr	115	104	P/P	40 - 150
2384635	Imidacloprid	146	129	P/P	40 - 150
2384635	Linuron	85.9	69.7	P/P	40 - 150
2384635	Mandestrobin	91.0	90.8	P/P	40 - 150
2384635	MCPP	113	94.5	P/P	40 - 150
2384635	Naproxen	102	88.4	P/P	40 - 150
2384635	Primidone	106	95.4	P/P	40 - 150
2384635	Pyraclostrobin	85.8	76.2	P/P	40 - 150
2384635	Silvex	82.7	77.1	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P425449

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384635	Thiamethoxam	132	114	P/P	40 - 150
2384635	Tolfenpyrad	55.6	49.9	P/P	30 - 150
2384635	Triclopyr	110	79.3	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P426066

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384793	Fluoride	103	102	P/P	94 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P426396

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2387728	Fluoride	101	101	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P425587

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384797	Organic Carbon	95.1	97.1	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P425480

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384948	Color (true)	1.10	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P425477

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2385024	Turbidity	9.82	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426091

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2385056	Chloride	4.11	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426094

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2385056	Sulfate	4.88	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425770

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384857	Ammonia-N	0.160	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425863

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384749	Ammonia-N	1.96	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425748

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384956	Kjeldahl Nitrogen	4.43	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426075

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384966	Kjeldahl Nitrogen	3.22	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425518

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384855	NO2NO3-N	1.41	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425601

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384966	NO2NO3-N	0.372	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425498

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384949	Total-P	0.199	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425542

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2385263	Total-P	2.36	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P425379

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384920	Aldrin	8.64	Spike	P	0 - 41
2384920	Alpha-BHC	0.296	Spike	P	0 - 25
2384920	Alpha-Chlordane	3.20	Spike	P	0 - 33
2384920	Beta-BHC	9.16	Spike	P	0 - 36
2384920	Beta-Cyfluthrin	5.32	Spike	P	0 - 42
2384920	Bifenthrin	12.1	Spike	P	0 - 53
2384920	Carbophenothion	0.923	Spike	P	0 - 49
2384920	Chlorothalonil	3.84	Spike	P	0 - 71
2384920	Cis-Nonachlor	6.55	Spike	P	0 - 29
2384920	Cypermethrin	4.75	Spike	P	0 - 40
2384920	Dacthal	0.462	Spike	P	0 - 26
2384920	DDD-p,p'	5.33	Spike	P	0 - 39
2384920	DDE-p,p'	1.89	Spike	P	0 - 33
2384920	DDT-p,p'	1.36	Spike	P	0 - 40
2384920	Delta-BHC	0.960	Spike	P	0 - 37
2384920	Deltamethrin	50.4	Spike	P	0 - 100
2384920	Dichlobenil	1.27	Spike	P	0 - 40
2384920	Dicofol	1.51	Spike	P	0 - 31
2384920	Dieldrin	2.95	Spike	P	0 - 27
2384920	Endosulfan I	9.46	Spike	P	0 - 23
2384920	Endosulfan II	6.61	Spike	P	0 - 28
2384920	Endosulfan Sulfate	7.35	Spike	P	0 - 38
2384920	Endrin	6.00	Spike	P	0 - 63

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P425379

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384920	Endrin Aldehyde	5.68	Spike	P	0 - 60
2384920	Endrin Ketone	4.45	Spike	P	0 - 37
2384920	Esfenvalerate	4.52	Spike	P	0 - 52
2384920	Ethalfuralin	2.28	Spike	P	0 - 23
2384920	Fenpropathrin	0.618	Spike	P	0 - 32
2384920	Gamma-BHC	6.90	Spike	P	0 - 17
2384920	Gamma-Chlordane	1.47	Spike	P	0 - 40
2384920	Heptachlor	20.9	Spike	P	0 - 29
2384920	Heptachlor Epoxide	12.3	Spike	P	0 - 25
2384920	Hexachlorobenzene	2.88	Spike	P	0 - 36
2384920	Kepone	2.07	Spike	P	0 - 93
2384920	Lambda-Cyhalothrin	16.0	Spike	P	0 - 55
2384920	Methoprene	4.08	Spike	P	0 - 53
2384920	Methoxychlor	2.01	Spike	P	0 - 29
2384920	MGK-264	2.32	Spike	P	0 - 35
2384920	Mirex	5.42	Spike	P	0 - 46
2384920	Oxychlordane	7.42	Spike	P	0 - 29
2384920	Permethrin	0.533	Spike	P	0 - 44
2384920	Phenothrin	2.45	Spike	P	0 - 56
2384920	Piperonyl Butoxide	3.61	Spike	P	0 - 100
2384920	Prallethrin	8.02	Spike	P	0 - 42
2384920	Tau-Fluvalinate	5.34	Spike	P	0 - 54
2384920	Tetramethrin	0.0452	Spike	P	0 - 51
2384920	Trans-Nonachlor	16.9	Spike	P	0 - 37
2384920	Triclosan Methyl	10.3	Spike	P	0 - 31
2384920	Trifluralin	8.13	Spike	P	0 - 30
2384926	PCB-1016	12.2	Spike	P	0 - 32
2384926	PCB-1260	12.2	Spike	P	0 - 31

Reference Method: EPA 8276

Batch ID: P425379

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384926	Chlordane	6.93	Spike	P	0 - 25
2384926	Toxaphene	7.98	Spike	P	0 - 26

Reference Method: EPA 8321B

Batch ID: P425294

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384317	Acesulfame K	6.12	Spike	P	0 - 30
2384317	AMPA	3.67	Spike	P	0 - 30
2384317	Endothall	1.59	Spike	P	0 - 30
2384317	Glufosinate	3.97	Spike	P	0 - 30
2384317	Glyphosate	7.83	Spike	P	0 - 30
2384317	Sucralose	2.14	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P425449

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384635	2,4-D	12.2	Spike	P	0 - 30
2384635	2,4,5-T	12.8	Spike	P	0 - 30
2384635	Acetaminophen	12.9	Spike	P	0 - 30
2384635	Acetamiprid	3.99	Spike	P	0 - 30
2384635	Afidopyropen	23.0	Spike	P	0 - 30
2384635	Bentazon	12.4	Spike	P	0 - 30
2384635	Benzovindiflupyr	6.74	Spike	P	0 - 30
2384635	Carbamazepine	12.9	Spike	P	0 - 30
2384635	Clothianidin	19.4	Spike	P	0 - 30
2384635	Dinotefuran	10.7	Spike	P	0 - 30
2384635	Diuron	6.30	Spike	P	0 - 30
2384635	Fenuron	9.59	Spike	P	0 - 30
2384635	Fluridone	23.9	Spike	P	0 - 30
2384635	Hydrocodone	6.21	Spike	P	0 - 30
2384635	Ibuprofen	46.4	Spike	F	0 - 30
2384635	Imazapyr	7.94	Spike	P	0 - 30
2384635	Imidacloprid	10.4	Spike	P	0 - 30
2384635	Linuron	20.8	Spike	P	0 - 30
2384635	Mandestrobin	0.149	Spike	P	0 - 30
2384635	MCPP	16.5	Spike	P	0 - 30
2384635	Naproxen	14.7	Spike	P	0 - 30
2384635	Primidone	10.4	Spike	P	0 - 30
2384635	Pyraclostrobin	11.9	Spike	P	0 - 30
2384635	Silvex	6.95	Spike	P	0 - 30
2384635	Thiamethoxam	14.4	Spike	P	0 - 30
2384635	Tolfenpyrad	10.8	Spike	P	0 - 30
2384635	Triclopyr	32.4	Spike	F	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P425709

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2385218	Total Alkalinity	0.143	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015

Batch ID: P426040

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384704	TDS	5.51	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011

Batch ID: P426066

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384793	Fluoride	0.464	Spike	P	0 - 1.6

Quality Assurance Report Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P426396

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2387728	Fluoride	0.513	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P425587

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384797	Organic Carbon	2.02	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2384973

Field Sample ID: G3SD0078

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	94.5	P	29 - 130
EPA 8270E	Decachlorobiphenyl	83.3	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	80.4	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	64.7	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	72.3	P	30 - 101
EPA 8276	PCNB	92.3	P	48 - 121

Lab Sample ID: 2384974

Field Sample ID: G3SD0136

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	82.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	93.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	72.2	P	30 - 160
EPA 8321B	Diuron-d6	55.9	P	30 - 160
EPA 8321B	Endothall-d6	58.1	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	66.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	79.0	P	30 - 160
EPA 8321B	Primidone-d5	93.2	P	30 - 160
EPA 8321B	Sucralose-d6	98.1	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A117299

Included Lab Sample IDs: 2384963, 2384965, 2384967

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

Reference Method: DEP SOP: NU-094-1

Run ID: A117300

Included Lab Sample IDs: 2384965, 2384967

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	99.3	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A117314

Included Lab Sample IDs: 2384964

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

Reference Method: EPA 8321B

Run ID: A117322

Included Lab Sample IDs: 2384974

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	98.4	101	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A117323

Included Lab Sample IDs: 2384974

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	108	105	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A117324

Included Lab Sample IDs: 2384974

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	93.9	96.1	P/P	60 - 160
Endothall	62.2	60.7	P/P	60 - 160
Glufosinate	73.5	72.8	P/P	60 - 160
Glyphosate	90.5	95.5	P/P	60 - 160

Reference Method: EPA 8270E

Run ID: A117335

Included Lab Sample IDs: 2384973

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	97.7		P	80 - 120
PCB-1260	99.8		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A117348

Included Lab Sample IDs: 2384964, 2384966, 2384968

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.1	93.4	P/P	90 - 110
Organic Carbon	98.6	96.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A117350

Included Lab Sample IDs: 2384966

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A117352

Included Lab Sample IDs: 2384966, 2384968

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A117353

Included Lab Sample IDs: 2384964, 2384968

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	95.0	95.8	P/P	90 - 110
Total-P	97.2	97.0	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A117372

Included Lab Sample IDs: 2384973

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	100		P	80 - 120
Alpha-BHC	96.9		P	80 - 120
Alpha-Chlordane	96.4		P	80 - 120
Beta-BHC	90.7		P	80 - 120
Beta-Cyfluthrin	92.2		P	80 - 120
Bifenthrin	101		P	80 - 120
Carbophenothion	108		P	80 - 120
Chlorothalonil	83.3		P	80 - 120
Cis-Nonachlor	106		P	80 - 120
Cypermethrin	96.8		P	80 - 120
Dacthal	108		P	80 - 120
DDD-p,p'	94.7		P	80 - 120
DDE-p,p'	98.1		P	80 - 120
DDT-p,p'	98.7		P	80 - 120
Delta-BHC	85.0		P	80 - 120
Deltamethrin	87.9		P	80 - 120
Dichlobenil	91.0		P	80 - 120
Dicofol	102		P	80 - 120
Dieldrin	108		P	80 - 120
Endosulfan I	96.6		P	80 - 120
Endosulfan II	92.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A117372
Included Lab Sample IDs: 2384973

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endosulfan Sulfate	99.6		P	80 - 120
Endrin	99.1		P	80 - 120
Endrin Aldehyde	103		P	80 - 120
Endrin Ketone	108		P	80 - 120
Esfenvalerate	87.2		P	80 - 120
Ethalfuralin	96.9		P	80 - 120
Fenpropathrin	102		P	80 - 120
Gamma-BHC	99.1		P	80 - 120
Gamma-Chlordane	103		P	80 - 120
Heptachlor	104		P	80 - 120
Heptachlor Epoxide	101		P	80 - 120
Hexachlorobenzene	98.3		P	80 - 120
Kepone	84.8		P	80 - 120
Lambda-Cyhalothrin	100		P	80 - 120
Methoprene	91.5		P	80 - 120
Methoxychlor	101		P	80 - 120
MGK-264	93.6		P	80 - 120
Mirex	98.5		P	80 - 120
Oxychlordane	104		P	80 - 120
Permethrin	102		P	80 - 120
Phenothrin	119		P	80 - 120
Piperonyl Butoxide	89.1		P	80 - 120
Prallethrin	89.4		P	80 - 120
Tau-Fluvalinate	92.0		P	80 - 120
Tetramethrin	85.8		P	80 - 120
Trans-Nonachlor	101		P	80 - 120
Triclosan Methyl	116		P	80 - 120
Trifluralin	94.1		P	80 - 120

Reference Method: EPA 8276
Run ID: A117378
Included Lab Sample IDs: 2384973

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	101		P	80 - 120
Toxaphene	105		P	80 - 120

Reference Method: EPA 8321B
Run ID: A117383
Included Lab Sample IDs: 2384974

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	105	96.2	P/P	50 - 150
2,4,5-T	100	99.5	P/P	50 - 150
Acetaminophen	112	109	P/P	60 - 160
Acetamiprid	91.7	90.2	P/P	50 - 150
Afidopyropen	85.6	122	P/P	50 - 150
Bentazon	104	95.0	P/P	50 - 160
Benzovindiflupyr	120	115	P/P	50 - 150
Carbamazepine	112	96.7	P/P	60 - 150
Clothianidin	102	95.5	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A117383
Included Lab Sample IDs: 2384974

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dinotefuran	113	111	P/P	50 - 150
Diuron	108	108	P/P	60 - 160
Fenuron	101	95.9	P/P	60 - 150
Fluridone	107	94.4	P/P	60 - 160
Hydrocodone	103	103	P/P	60 - 150
Ibuprofen	77.0	97.4	P/P	50 - 160
Imazapyr	104	97.7	P/P	50 - 150
Imidacloprid	99.6	99.0	P/P	60 - 150
Linuron	94.0	113	P/P	60 - 150
Mandestrobin	117	122	P/P	50 - 150
MCPP	100	94.1	P/P	50 - 150
Naproxen	119	98.6	P/P	50 - 160
Primidone	105	88.1	P/P	60 - 150
Pyraclostrobin	113	109	P/P	60 - 150
Silvex	106	108	P/P	50 - 150
Thiamethoxam	102	91.4	P/P	50 - 150
Tolfenpyrad	105	104	P/P	60 - 150
Triclopyr	102	105	P/P	50 - 150

Reference Method: SM 2320 B-2011
Run ID: A117401
Included Lab Sample IDs: 2384963, 2384965, 2384967

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.2	97.7	P/P	90 - 110
Total Alkalinity	97.7	94.8	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A117426
Included Lab Sample IDs: 2384965, 2384967

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	93.7	91.7	P/P	90 - 110
Sulfate	96.9	95.1	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A117427
Included Lab Sample IDs: 2384964

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.9	99.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A117455
Included Lab Sample IDs: 2384966, 2384968

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.8	98.9	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500-F- C-2011

Run ID: A117531

Included Lab Sample IDs: 2384965, 2384967

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	105	106	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A117550

Included Lab Sample IDs: 2384964

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.5	94.3	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A117612

Included Lab Sample IDs: 2384966, 2384968

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.8	97.0	P/P	90 - 110
Kjeldahl Nitrogen	97.4	96.8	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A117667

Included Lab Sample IDs: 2384963

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

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
DEP SOP: NU-094-1	Color (true)	101			1.10	
EPA 180.1 Rev. 2.0	Turbidity	101			9.82	
EPA 300.0 Rev. 2.1	Chloride	92.0	94.3	94.4	4.11	
	Sulfate	94.0	95.9	103	4.88	
EPA 350.1 Rev. 2.0	Ammonia-N	99.4	105	105		0.160
	Ammonia-N	96.8	99.4	96.6		1.96
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103	92.5	97.4		4.43
	Kjeldahl Nitrogen	98.3	99.5	95.1		3.22
EPA 353.2 Rev. 2.0	NO2NO3-N	102	106	108		1.41
	NO2NO3-N	98.0	103	102		0.372
EPA 365.1 Rev. 2.0	Total-P	105	106	106		0.199
	Total-P	105	100	103		2.36
EPA 8270E	Aldrin	49.7	45.7	49.8		8.64
	Alpha-BHC	89.9	87.8	87.6		0.296
	Alpha-Chlordane	83.9	93.2	90.3		3.20
	Beta-BHC	111	123	112		9.16
	Beta-Cyfluthrin	77.3	88.7	84.1		5.32
	Bifenthrin	46.2	53.8	60.8		12.1
	Carbophenothion	69.6	82.6	83.4		0.923
	Chlorothalonil	116	112	117		3.84
	Cis-Nonachlor	67.9	76.2	71.4		6.55
	Cypermethrin	75.8	66.1	69.3		4.75
	Dacthal	102	90.7	91.1		0.462
	DDD-p,p'	89.7	92.2	87.4		5.33
	DDE-p,p'	82.3	88.7	87.0		1.89
	DDT-p,p'	68.3	60.7	61.6		1.36
	Delta-BHC	109	110	111		0.960
	Deltamethrin	74.5	46.5	77.8		50.4
	Dichlobenil	78.2	63.1	63.9		1.27
	Dicofol	79.9	75.0	76.1		1.51
	Dieldrin	79.3	81.4	79.0		2.95
	Endosulfan I	84.6	68.3	75.1		9.46
	Endosulfan II	82.4	70.2	75.0		6.61
	Endosulfan Sulfate	114	121	112		7.35
	Endrin	89.2	95.7	90.2		6.00
	Endrin Aldehyde	86.9	79.9	75.5		5.68
	Endrin Ketone	105	102	97.9		4.45
	Esfenvalerate	81.3	97.0	101		4.52
	Ethalfuralin	66.8	63.2	64.6		2.28
	Fenpropathrin	62.7	69.5	69.0		0.618
	Gamma-BHC	97.2	78.1	83.6		6.90
	Gamma-Chlordane	69.4	77.1	76.0		1.47
	Heptachlor	66.3	53.9	66.5		20.9
	Heptachlor Epoxide	85.3	66.8	75.6		12.3
	Hexachlorobenzene	62.2	63.7	65.6		2.88
	Kepone	188	130	133		2.07
	Lambda-Cyhalothrin	60.7	58.1	68.2		16.0
	Methoprene	59.7	74.8	77.9		4.08
	Methoxychlor	87.0	88.3	86.5		2.01
	MGK-264	91.1	75.8	77.5		2.32
	Mirex	58.9	50.5	53.3		5.42
	Oxychlordane	77.9	64.3	69.3		7.42
	PCB-1016	71.3	79.5	70.4		12.2
	PCB-1260	68.5	73.3	64.8		12.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Permethrin	65.3	73.7	74.1			0.533
	Phenothrin	52.8	60.4	58.9			2.45
	Piperonyl Butoxide	109	111	107			3.61
	Prallethrin	90.5	97.8	90.3			8.02
	Tau-Fluvalinate	69.3	87.7	92.5			5.34
	Tetramethrin	89.7	90.8	90.8			0.0452
	Trans-Nonachlor	78.7	63.9	75.6			16.9
	Triclosan Methyl	84.9	81.5	90.3			10.3
	Trifluralin	66.0	59.3	64.3			8.13
EPA 8276	Chlordane	82.5	102	95.1			6.93
	Toxaphene	94.9	137	148			7.98
EPA 8321B	2,4-D	92.4	103	88.3			12.2
	2,4,5-T	81.5	96.7	85.1			12.8
	Acesulfame K	63.5	165	176			6.12
	Acetaminophen	92.5	113	99.5			12.9
	Acetamiprid	72.2	74.8	71.9			3.99
	Afidopyropen	62.8	82.1	65.2			23.0
	AMPA	104	80.7	77.8			3.67
	Bentazon	96.2	119	101			12.4
	Benzovindiflupyr	86.5	94.6	88.5			6.74
	Carbamazepine	84.7	78.2	68.7			12.9
	Clothianidin	88.6	113	93.0			19.4
	Dinotefuran	101	129	116			10.7
	Diuron	77.9	67.0	62.4			6.30
	Endothall	92.5	115	114			1.59
	Fenuron	100	93.2	84.7			9.59
	Fluridone	79.3	86.4	68.0			23.9
	Glufosinate	113	76.0	73.1			3.97
	Glyphosate	106	95.3	88.1			7.83
	Hydrocodone	96.3	115	108			6.21
	Ibuprofen	76.2	103	64.4			46.4
	Imazapyr	89.2	115	104			7.94
	Imidacloprid	87.6	146	129			10.4
	Linuron	82.5	85.9	69.7			20.8
	Mandestrobin	97.4	91.0	90.8			0.149
	MCPP	105	113	94.5			16.5
	Naproxen	75.0	102	88.4			14.7
	Primidone	89.2	106	95.4			10.4
	Pyraclostrobin	77.0	85.8	76.2			11.9
	Silvex	70.6	82.7	77.1			6.95
	Sucralose	91.1	97.4	95.1			2.14
	Thiamethoxam	93.5	132	114			14.4
	Tolfenpyrad	42.5	55.6	49.9			10.8
	Triclopyr	81.8	110	79.3			32.4
SM 2320 B-2011	Total Alkalinity	96.9				0.143	
SM 2540 C-2015	TDS	96.3				5.51	
SM 2540 D-2015	TSS	93.1					
	TSS	89.4					
SM 4500-F- C-2011	Fluoride	102	103	102			0.464
	Fluoride	100	101	101			0.513
SM 5310 B-2011	Organic Carbon	95.4	95.1	97.1			2.02

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2384965, 2384967
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2384963, 2384965, 2384967
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2384965, 2384967
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2384965, 2384967
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2384964, 2384966, 2384968
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2384964, 2384966, 2384968
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2384964, 2384966, 2384968
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2384964, 2384966, 2384968
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2384973
EPA 8270E	PCBs in water matrices by GC/MS/MS	2384973
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2384973
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2384974
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2384963, 2384965, 2384967
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2384965, 2384967
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2384963, 2384965, 2384967
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2384963, 2384965, 2384967
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2384964, 2384966, 2384968

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	02/06/2023			02/07/2023 14:20	Alexis Price	2384965, 2384967
EPA 180.1 Rev. 2.0	02/06/2023			02/07/2023 13:20	Anna M. Plaviak	2384963
	02/06/2023			02/07/2023 13:21	Anna M. Plaviak	2384965
	02/06/2023			02/07/2023 13:22	Anna M. Plaviak	2384967
EPA 300.0 Rev. 2.1	02/06/2023			02/16/2023 16:21	Anna M. Plaviak	2384965
	02/06/2023			02/16/2023 16:36	Anna M. Plaviak	2384967
EPA 350.1 Rev. 2.0	02/06/2023			02/14/2023 11:22	Ping Hua	2384964
	02/06/2023			02/15/2023 11:54	Ping Hua	2384966
	02/06/2023			02/15/2023 11:55	Ping Hua	2384968
EPA 351.2 Rev. 2.0	02/06/2023	02/14/2023 13:15	Simonne.V. Calhoun	02/20/2023 14:41	Samantha L Bates	2384964
	02/06/2023	02/20/2023 12:20	Simonne.V. Calhoun	02/22/2023 17:23	Samantha L Bates	2384966
	02/06/2023	02/20/2023 12:20	Simonne.V. Calhoun	02/22/2023 17:32	Samantha L Bates	2384968
EPA 353.2 Rev. 2.0	02/06/2023			02/08/2023 10:36	Beverly Y. Sanders	2384964
	02/06/2023			02/09/2023 11:39	Beverly Y. Sanders	2384966
	02/06/2023			02/09/2023 11:50	Beverly Y. Sanders	2384968
EPA 365.1 Rev. 2.0	02/06/2023	02/08/2023 16:06	Adam P Silver	02/09/2023 10:19	Simonne.V. Calhoun	2384966
	02/06/2023	02/08/2023 16:06	Adam P Silver	02/09/2023 11:41	Simonne.V. Calhoun	2384968
	02/06/2023	02/08/2023 16:06	Adam P Silver	02/09/2023 12:22	Simonne.V. Calhoun	2384964
EPA 8270E	02/06/2023	02/07/2023 08:00	Fe-Val Siddell	02/08/2023 21:48	Vandana T. Nagar	2384973
	02/06/2023	02/07/2023 08:00	Fe-Val Siddell	02/10/2023 03:16	Julie Wi	2384973
EPA 8276	02/06/2023	02/07/2023 08:00	Fe-Val Siddell	02/10/2023 07:21	Lipi Saha	2384973
EPA 8321B	02/06/2023	02/06/2023 13:00	Manjita Shrestha	02/06/2023 22:51	Manjita Shrestha	2384974
	02/06/2023	02/06/2023 13:00	Manjita Shrestha	02/07/2023 08:21	Manjita Shrestha	2384974
	02/06/2023	02/06/2023 13:00	Manjita Shrestha	02/08/2023 14:25	Manjita Shrestha	2384974
	02/06/2023	02/07/2023 10:00	June Rhew	02/09/2023 09:10	Juyoung Kim	2384974
	02/06/2023	02/07/2023 10:00	June Rhew	02/09/2023 11:03	Juyoung Kim	2384974
SM 2320 B-2011	02/06/2023			02/11/2023 03:31	Dale L. Simmons	2384965
	02/06/2023			02/11/2023 03:40	Dale L. Simmons	2384967
	02/06/2023			02/11/2023 07:30	Dale L. Simmons	2384963
SM 2540 C-2015	02/06/2023			02/08/2023 14:40	Yijie Li	2384965, 2384967
SM 2540 D-2015	02/06/2023			02/08/2023 14:40	Yijie Li	2384963, 2384965, 2384967
SM 4500-F- C-2011	02/06/2023			02/18/2023 01:59	Dale L. Simmons	2384965
	02/06/2023			02/18/2023 02:05	Dale L. Simmons	2384967
	02/06/2023			02/25/2023 04:29	Dale L. Simmons	2384963
SM 5310 B-2011	02/06/2023			02/08/2023 19:54	Elise M. Gillis	2384964
	02/06/2023			02/08/2023 20:39	Elise M. Gillis	2384966
	02/06/2023			02/08/2023 20:53	Elise M. Gillis	2384968